

**ANNUAL ACTION
PLAN**

OF

***KVK, JANJGIR-
CHAMPA***

2013-14

DISTRICT PROFILE

Agro-climatic zone	:	Chhattisgarh plane
Net sown area (ha)	:	2,60,445 (K); 1,02,365 (R)
No. of tehsils	:	10
No. of Blocks	:	09
No. of villages	:	915
No. of electrified village	:	915
No. of farm families	:	270174
Literacy rate (%)	:	54.65% [67.60 (M); 41.70 (F)]
Average size of land holding	:	0.96 ha
Population (lakh)	:	18.39
Percent tribal population to total population (%)	:	10% (On the basis of farm family)
Geographical area	:	4,46,674
Net sown area (000 ha)	:	260.445
Gross sown area (000 ha)	:	358.282
Area under forest (000 ha)	:	79.439
Percent forest area to geographical area (%)	:	17.78 %
Kharif sown area (000 ha)	:	259.840
Rabi sown area (000 ha)	:	102.365
Cropping intensity (%)	:	140 %
Irrigation (%)	:	K 92% & R 26%
Total area under horticultural crop (ha)	:	8167 [Fruit-7089, Veg -818, Spi - 223 & Flo-37 ha]
Average rainfall (mm)	:	1115

AREA, PRODUCTION AND PRODUCTIVITY OF MAJOR CROPS IN THE DISTRICT 2012-13

S. No.	Crops	Area (000 ha)	Production Unit 000 ton	Productivity (q/ha)	State average productivity (q/ha)
	Kharif				
1	Rice	247.32	1112.692	44.99	18.00
2	Maize	0.406	0.596	14.70	18.20
	Rabi				
1	Wheat	3.91	7.233	18.50	13.80
2	Maize	0.70	0.787	11.25	16.25
	Summer				
1	Summar Rice	49.570	195.881	39.50	37.25

	Pulse				
1	Black Gram	1.268	1.23	9376	3.60
2	Pigeon Pea	1.269	1.627	12.92	6.60
3	Lathyrus	23.780	15.219	6.40	6.30
4	Chick Pea	0.730	0.766	10.50	10.70
5	Pea	0.500	0.310	6.20	55.00
	Oilseed				
1	Sesa me	0.743	0.428	5.77	3.70
2	Mustard	5.940	4.692	4.90	5.80
3	Linseed	7.870	3.777	4.80	4.65
4	Sunflower	0.920	0.588	6.40	6.30
5	Safflower	0.925	0.647	7.00	2.80

PROBLEM IN THE DISTRICT

1. Although the district is canal irrigated but due to field to field irrigation created lot of water losses and crop diversification, introduction of short duration variety is a difficult job.
2. Delayed sowing /transplanting. Imbalance NPK application .
3. .Lack of suitable farm implements' for weeding.
4. Amongst plant protection blast, stem borer, BPH & BLB respectively .
5. Lack of mushroom spawn, Marketing problem of oyster mushroom, Lack of Soil testing lab.
6. Lack of knowledge about bio control agents.
7. Wilt problem in solaneceae crops, Mosaic problem in cowpea, Papaya etc.

THRUST AREA OF DISTRICT

1. From last few years climatic change is the major threat. Hence, temperature and rainfall pattern should be analyzed at micro level.
2. Delayed sowing/transplanting of paddy.
3. Replacement of Swarna variety with early medium to early duration varieties
4. Introduction and popularization of Hybrid rice.
5. Plant protection in paddy, vegetables and fruits.
6. Mushroom-cultivation and mushroom spawn availability.
7. Acceleration seed replacement rate.
8. Seed treatment by fungicide .
9. Judicious application of major nutrient N:P:K(Cereals 4:2:1 & Pulse 1:2:1 ratio).
10. Credit facilities at time.
11. Weed management.
12. Introduction of SRI method of cultivation.
13. Acceleration of farm mechanization.

14. Seed village concept.
15. Promotion of farming system approach
16. Crop intensification.
17. Production of horticultural crops, disease resistant varieties of vegetables.

PROPOSED ACTION PLAN 2013-14

KVK, JANJGIR-CHAMPA

Summary of the activities to be conducted/ organized (2013-14)

Activity	Target	
	Number of activity	No. of farmers/ beneficiaries
OFTs	26	109
FLDs – Oilseeds (activity in ha)	15	40
FLDs – Pulses (activity in ha)	15	26
FLDs – Cotton (activity in ha)	00	00
FLDs – Other than Oilseed and pulse crops(activity in ha)	35	91
FLDs – Other than Crops (activity in no. of Unit/Enterprise)	10	26
Training-Farmers and farm women	69	1900
Training-Rural youths	09	400
Training- Extension functionaries	12	400
Extension Activities	200	3500
Seed Production (Number of activity as seeds in quintal)	00	00
Planting material ((Number of activity as quantity of planting material in quintal)	00	00
Seedling Production (Number of activity as number of seedlings in numbers)	00	00
Sapling Production (Number of activity as number of sapling in numbers)	00	00
Other Bio- products (No. of quantity)	00	00
Live stock products	00	00
Activities of Soil and Water Testing Laboratory	00	00
Rainwater Harvesting System	00	00
Kisan Mobile Advisory (KVK-KMA)	500	1000
SAC Meeting (Date & no. of core/ official members)	01	30
Literature to be Developed/Published	10	5000
Convergence programmes / Sponsored programmes	10	300
Utilization of Farmers Hostel	00	00

Activity	Target	
	Number of activity	No. of farmers/ beneficiaries
Utilization of Staff Quarters	00	00
Details of KVK Agro-technological Park	05	200
Crop Cafeteria-	05	200
Farm Innovators- list of 10 farm innovators from the District	10	10
Status of Revolving Funds		
Awards and Recognitions	05	
Case study / Success Story to be developed	03	
KVK Progressive Farmers interaction	05	
Outreach of KVK in the District (No. of blocks, no. of villages)	09	
Technology Demonstration under Tribal Sub Plan	00	
KVK Ring	03	
Important visitors to KVK	10	
Status of KVK Website	Ongoing	
Status of RTI		
E-connectivity		
Details of Technology Week Celebrations	03	
Interventions on Drought Mitigation		
Proposal of NAIP		
Proposal of NICRA		
Well labeled photographs	Yes	
Other Activities		

Thematic Area wise Proposed OFT

2013-14	Thematic Area	No. of OFT
Kharif	Nutrient Management	04
Kharif	Integrated crop Management	04
Kharif	Varietal evaluation	04
Kharif	Farm Mechanization	04
Kharif	Integrated Pest Management	04
Kharif	Integrated Disease Management	04
Kharif	Drudgery reduction	00
Kharif	Mushroom	01
Kharif	Onion	01

Summery of OFT to be Conducted

S. No	season	Title of OFT	Crop/ Technology	Area (ha.)/ No.
1.	Kharif 13	Varietal assessment in papaya against mosaic incidence.	Papaya	01
2.	Kharif 13	To assess different channels for mushroom marketing.	Mushroom	01
3.	Kharif 13	Evaluation of Tebuconazole for the management of False smut disease in rice.	Rice	01
4.	Kharif 13	Assessment of Tillage and biasi practice by rotary tiller.	Rice	01
5.	Kharif 13	Assessment of SRI technique by using marker.	Rice	01
6.	Kharif 13	Assessment of intercultural operation by Ambika Paddy Weeder.	Rice	01
7.	Rabi- 13	Assessment of package of practice.	Rice	01
8.	Kharif 13	Assessment of urea with fungicide (carbendazim + mancozeb) in rice.	Rice	01
9.	Kharif 13	Mechanical killing of egg masses of Rice Stem Borer and Assessment of Cartap hydrochloride for management of rice stem borer.	Rice	01
10.	Kharif-13	Assessment of Buprofezin for management of Brown plant hopper.	Rice	01
11.	Kharif-13	Assessment of stubbles management and chlorantraniliprole (Rynaxpyr) for rice stem borer.	Rice	01
12.	Kharif-13	Evaluation of improvement in Biasi Cultivation of Rice through Crop Management.	Rice	01
13.	Kharif-13	Assessment of comparative yield performance of newly released variety of Rice.	Rice	01
14.	Rabi 13	Varietal assessment of Tomato against wilt disease.	Tomato	01
15.	Rabi 13	Varietal assessment of Brinjal against wilt disease.	Brinjal	01
16.	Rabi13-14	Assessment of Line sowing of chickpea.	Chickpea	01
17.	Kharif -13	Assessment of Rice-based Cropping System under limited (One) irrigation during Rabi.	Rice	01
18.	Rabi 13	Assessment of STCR based nutrient management in Rice.	Rice	01
19.	Rabi 13	Assessment of thiamethoxam foe management of brown plant hopper.	Rice	01
20.	Rabi 13	Assessment of Sprinkler irrigation system on wheat crop	Wheat	01
21.	Rabi 13	Assessment of Nutrient management on wheat crop	Wheat	01
22.	Kharif 13	Varietal assessment of okra.	Vegetable	01
23.	Rabi 13	Improved Nursery management Brinjal	Vegetable	01
24.	Rabi 13	Varietal assessment of pea	Vegetable	01

25.	Summer 13	Varietal performance of bottle gourd.	Vegetable	01
26.	Rabi 13	Assessment of STCR based nutrient management in Chick Pea	Chick pea	01

OFT- 1

Title : To assess different channels for mushroom marketing.

Season & Year	:	Kharif, 2013
Problem	:	After creating awareness in spite of farmers willingness to grow mushrooms. The major constraint is with Marketing.
Thematic Area	:	Mushroom Production & Marketing
Name of Technology	:	Different marketing channels such as Kirana & Provision store, Hotels and Personal contact.
Source of Technology	:	Innovative approach
Farmer's Practice (T₁)	:	Low yielding variety and marketing problem
Assessed Recommended Practice (T₂)	:	High yielding and nutritious variety and Solve the marketing problems through different marketing channels.
T₃	:	-
Observation to be recorded	:	Yield
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Shri Nitin Kumar Toorray

OFT- 2

Title : Varietal assessment in papaya against mosaic incidence.

Season & Year	:	Kharif, 2013
Problem	:	Maximum (70%) papaya plants affected by mosaic virus resulting into quite low yields. Moreover, dioecious nature of local varieties poses problem of unfruitfulness due to disproportionate sex ratio.
Thematic Area	:	Disease management / varietal assessment
Name of Technology	:	1.Local variety 2.Co-1/ Co-2 3. Badwani Red/Yellow Fruits are round to oblong with orange colored pulp, fruit wt.3-5 kg., Av. yield 80 kg/plant.
Source of Technology	:	IGKV
Farmer's Practice (T₁)	:	Low yielding local varieties
Assessed Recommended Practice (T₂)	:	Papaya mosaic resistant high yielding varieties
T₃	:	-
Observation to be recorded	:	No. of fruits per plant, Disease Incidence%, Yield
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Shri Nitin Kumar Toorray

OFT- 3

Title : Evaluation of Tebuconazole for the management of False smut disease in rice.

Season & Year	:	Kharif, 2013
Problem	:	Low yield due to incidence of False smut disease.
Thematic Area	:	Disease management
Name of Technology	:	Evaluation of Tebuconazole for the management of False smut disease in rice.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Plant protection measures are rarely used.
Assessed Recommended Practice (T₂)	:	Use of Tebuconazole @ 0.1 % can reduce the False smut of rice. spraying at 50% flowering and booting stage.
T₃	:	-
Observation to be recorded	:	No. of Infected plants /Sq.meter, Disease Incidence %, Yield
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Shri Nitin Kumar Toorray

OFT- 4

Title : Varietal assessment in Tomato against wilt incidence.

Season & Year	:	Rabi, 2013
Problem	:	Heavy loss due to wilt disease.
Thematic Area	:	Disease management / Varietal assessment
Name of Technology	:	Varietal assessment in Tomato against wilt incidence.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local variety
Assessed Recommended Practice (T₂)	:	High yielding and disease resistant varieties: 1. Laxmi 2. Nidhi
T₃	:	-
Observation to be recorded	:	No. of fruits /plant, Disease Incidence %, Yield
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Shri Nitin Kumar Toorray

OFT- 5

Title : Varietal assessment in Brinjal against wilt incidence.

Season & Year	:	Rabi, 2013
Problem	:	Heavy loss due to wilt disease.
Thematic Area	:	Disease management / Varietal assessment
Name of Technology	:	Varietal assessment in Tomato against wilt incidence.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local variety
Assessed Recommended Practice (T₂)	:	High yielding and disease resistant varieties : 1. Black beauty 2. Green star
T₃	:	-
Observation to be recorded	:	No. of fruits /plant, Disease Incidence %, Yield
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Shri Nitin Kumar Toorray

OFT- 6

Title : Improved Nursery management in Brinjal during Kharif

Season & Year	:	Kharif, 2013
Problem	:	Higher mortality due to water stagnation near by nursery.
Thematic Area	:	Disease management / Varietal assessment
Name of Technology	:	To check mortality of plants through water stagnation
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Poor nursery Management
Assessed Recommended Practice (T₂)	:	Improved technic of nursery management
T₃	:	-
Observation to be recorded	:	Plant population per sq. meter at 10 DAS,20DAS and at the time of transplanting of Tomato, Brinjal.
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Smt. Savita Rajput

OFT- 7

Title : Varietals assessments of Okra for higher yield during Kharif.

Season & Year	:	Kharif, 2013
Problem	:	Poor germination, less yield and severe attack of YVM virus.
Thematic Area	:	Varietal assessment
Name of Technology	:	Varietals assessments of Okra for higher yield during.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local variety
Assessed Recommended Practice (T₂)	:	High Yielding and disease resistance, Variety -Super Green/ Arka Anamika
T₃	:	-
Observation to be recorded	:	Number of fruits per plants yield B:C Ratio
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Smt. Savita Rajput

OFT- 8

Title : Varietals assessments of late duration Pea for higher yield during Rabi.

Season & Year	:	Rabi, 2013
Problem	:	Poor germination, less yield.
Thematic Area	:	Varietal assessment
Name of Technology	:	Varietals assessments of late duration Pea for higher yield during
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local variety
Assessed Recommended Practice (T₂)	:	High Yielding, late group and disease resistance Variety – PSM-3/ Bonnelle.
T₃	:	-
Observation to be recorded	:	Number of fruits per plants Number of Picking fruit yield B:C Ratio
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Smt. Savita Rajput

OFT- 9

Title : Varietals assessments of Bottle Gourd for higher yield during Summer.

Season & Year	:	Rabi, 2013
Problem	:	Less yield and poor quality due to infestation of Red pumpkin beetle.
Thematic Area	:	Varietal assessment
Name of Technology	:	Varietals assessments of Bottle Gourd for higher yield
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local variety
Assessed Recommended Practice (T₂)	:	High Yielding and insect resistance Variety- Gutka/ VNR var.
T₃	:	-
Observation to be recorded	:	Number of fruits per plants yield B:C Ratio
No. of Trails (Replication)	:	05
Name of SMS responsible for OFT	:	Smt. Savita Rajput

OFT- 10

Title : Assessment of Power Tiller for Biasi.

Season & Year	:	Kharif, 2013
Problem	:	kharif nearly 60-70 % area covered under direct seeded or lehi method maintaining proper plant population and conservation of water are major constraint
Thematic Area	:	Farm Mechanization
Name of Technology	:	Self Propelled Power Tiller
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Power Tiller
T₃	:	-
Observation to be recorded	:	1. Yield 2. BC Ratio 3. Energy (MJ/ha) 4. Man/hr 5. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Er. Sameer Shantaiya

OFT- 11

Title : Assessment of Marker for SRI technique.

Season & Year	:	Kharif, 2013
Problem	:	Lack of knowledge about technology and awareness about SRI transplanting
Thematic Area	:	Farm Mechanization
Name of Technology	:	Due to increase in cost of cultivation with special reference to labour and time.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Marker
T₃	:	-
Observation to be recorded	:	1. Yield 4. BC Ratio 5. Energy (MJ/ha) 5. Man/hr 5. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Er. Sameer Shantaiya

OFT- 12

Title : Assessment of Ambika Paddy Weeder for SRI Tech. practice.

Season & Year	:	Kharif, 2013
Problem	:	Due to increase in cost of cultivation with special reference to labour and time
Thematic Area	:	Farm Mechanization
Name of Technology	:	Ambika Paddy Weeder
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Intercultural operation doing with help of suitable paddy weeder
T₃	:	-
Observation to be recorded	:	1. Yield 6. BC Ratio 7. Energy (MJ/ha) 6. Man/hr 5. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Er. Sameer Shantaiya

OFT- 13

Title : Assessment of package of practice for Chickpea.

Season & Year	:	Rabi, 2013
Problem	:	Timely sowing and uniform depth of crop sowing.
Thematic Area	:	Farm Mechanization
Name of Technology	:	Rotavator + TD Seed Cum Fertilizer Drill
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Rotavator + TD Seed Drill Cum fertilizer
T₃	:	-
Observation to be recorded	:	1. Yield 8. BC Ratio 9. Energy (MJ/ha) 7. Man/hr 5. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Er. Sameer Shantaiya

OFT- 14

Title : Assessment of line sowing of Chickpea.

Season & Year	:	Rabi, 2013
Problem	:	Timely sowing and uniform depth of crop sowing.
Thematic Area	:	FIM
Name of Technology	:	TD Seed Cum Fertilizer Drill
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	TD Seed Drill Cum fertilizer
T₃	:	-
Observation to be recorded	:	1. Yield 10. BC Ratio 11. Energy (MJ/ha) 5. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Er. Sameer Shantaiya

OFT- 15

Title : Suitable management and Assessment of chlorantraniliprole for management of rice stem borer.

Season & Year	:	Kharif, 2013
Problem	:	Low yield due to incidence of YSB insect.
Thematic Area	:	IPM
Name of Technology	:	chlorantraniliprole 18.5% SC- 60 ml/ha
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	chlorantraniliprole 18.5% SC- 60 ml/ha
T₃	:	-
Observation to be recorded	:	1. Yield (q/ha) 2. No. of larvae par five stubles 3. no. of Ear head par squre metar 4. No. of larvae par squre metar 5. BC Ratio 6. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Dr. Dushyant Kumar Kaushik

OFT- 16

Title : Assessment of Buprofezin for management of Brown plant hopper.

Season & Year	:	Kharif, 2013
Problem	:	Low yield due to incidence of BPH insect.
Thematic Area	:	IPM
Name of Technology	:	Buprofezin 25% WP – 500 ml/ha
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Buprofezin 25% WP – 500 ml/ha
T₃	:	-
Observation to be recorded	:	1. Yield (q/ha) 2. No. of BPH (nymph & adult) par hill 3. BC Ratio 4. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Dr. Dushyant Kumar Kaushik

OFT- 17

Title : Assessment of Thiamethoxam for Brown plant hopper

Season & Year	:	Rabi, 2013
Problem	:	Low yield due to BPH
Thematic Area	:	IPM
Name of Technology	:	Thiamethoxam 25 % WG – 100g/ha.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Thiamethoxam 25 % WG – 100g/ha.
T₃	:	-
Observation to be recorded	:	1. Yield (q/ha) 2. No. of BPH (nymph & adult) par hill 3. BC Ratio 4. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Dr. Dushyant Kumar Kaushik

OFT- 18

Title : Mechanical killing of egg masses of Rice Stem Borer and Assessment of Cartap hydrochloride for management of rice stem borer.

Season & Year	:	Rabi, 2013
Problem	:	Low yield due to BPH
Thematic Area	:	IPM
Name of Technology	:	Cartap hydrochloride-4G-@20kg/ha
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Cartap hydrochloride-4G-@20kg/ha
T₃	:	-
Observation to be recorded	:	1. Yield (q/ha) 2. No. of egg masses par five plant 3. no. of Ear head par squire metar 4. No. of larvae par squire metar 5. BC Ratio 6. Feed Back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Dr. Dushyant Kumar Kaushik

OFT- 19

Title : Evaluation of improvement in Biasi Cultivation of Rice through Crop Management.

Season & Year	:	Kharif, 2013
Problem	:	Use of high seed red coupled with heavy infestation of weeds in biasi system of Rice cultivation.
Thematic Area	:	Integrated crop management
Name of Technology	:	60 kg seed/ha+ Bispyribac Na+ Ethoxisulfuron (PoE at 20-25 DAS i.e.2-3 leaf stage of weeds) + Bispyribac Na (PoE at 40 DAS)
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	60 kg seed/ha+ Bispyribac Na+ Ethoxisulfuron (PoE at 20-25 DAS i.e.2-3 leaf stage of weeds) + Bispyribac Na (PoE at 40 DAS)
T₃	:	-
Observation to be recorded	:	1. Yield 2. Plant height 3. No. of Tillers/m ²
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Shashi Kant Suryavanshi

OFT- 20

Title : Assessment of comparative yield performance of newly released variety of Rice.

Season & Year	:	Kharif, 2013
Problem	:	Low yield & severe insect and disease infestation in old variety of Rice.
Thematic Area	:	Yield performance
Name of Technology	:	New released variety Indira Maheshwari.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	New released variety Rajeshwari / Durgeshwari/ Maheshwari
T₃	:	-
Observation to be recorded	:	1. Yield 2. Plant height 3. No. of Tillers/m ²
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Shashi Kant Suryavanshi

OFT- 21

Title : Assessment of system of Irrigation through Sprinkler on wheat.

Season & Year	:	Rabi, 2013
Problem	:	Lack of knowledge imbalance irrigation.
Thematic Area	:	Water management
Name of Technology	:	irrigation through sprinkler system.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	irrigation through sprinkler system.
T₃	:	-
Observation to be recorded	:	<ol style="list-style-type: none"> 1. Yield 2. No. of Tillers/m² 3. BC : Ratio 4. Feed back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Shashi Kant Suryavanshi

OFT- 22

Title : Assessment of Rice-based Cropping System under limited (One) irrigation during Rabi.

Season & Year	:	Rabi, 2013
Problem	:	Field remain fallow after long duration Rice.
Thematic Area	:	Integrated Crop management
Name of Technology	:	Rice (early to medium i.e. < 120days duration)-gram with one irrigation.
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Rice (early to medium i.e. < 120days duration)-gram with one irrigation.
T₃	:	-
Observation to be recorded	:	<ol style="list-style-type: none"> 1. Yield 2. No. of Pod /Plant 3. Plant height 4. BC : Ratio 5. Feed back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Shashi Kant Suryavanshi

OFT- 23

Title : Assessment of STCR based nutrient management in Rice.

Season & Year	:	Kharif, 2013
Problem	:	Use of imbalance nutrient in Rice affect crop yield as well as cost of cultivation.
Thematic Area	:	Integrated Nutrient management
Name of Technology	:	Use of RDF (Recommended dose of fertilizers) as per recommendation of Zonal station of IGKV Raipur/Ambikapur/Jagdapur
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Integrated Nutrient Management under Rice based on soil test crop response studies (STCR)
T₃	:	-
Observation to be recorded	:	<ol style="list-style-type: none"> 1. Yield 2. No. of tillers/Plant 3. Plant height 4. BC : Ratio 5. Net income 6. Feed back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Khema Das Mahant

OFT- 24

Title : Assessment of urea with fungicide (Carbendazim+Mencozeb) in Rice.

Season & Year	:	Kharif, 2013
Problem	:	Maximum rice (80%) are affected by heavy loss of nitrogen by leaching and volatilization, resulting less no. of tiller and most of the area of rice are affected by blast and blight disease due to no treatment of seed resulting low yield.
Thematic Area	:	Integrated Nutrient management
Name of Technology	:	50 kg urea/ ha. As a basal dose + 1200gm (Carbendazim+Mencozeb)
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	50 kg urea/ ha. As a basal dose + 1200gm (Carbendazim+Mencozeb)
T₃	:	-
Observation to be recorded	:	<ol style="list-style-type: none"> 1. Yield 2. No. of tillers/Plant 3. Plant height 4. BC : Ratio 5. Net income 6. Feed back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Khema Das Mahant

OFT- 25

Title : Assessment of STCR based nutrient management in Wheat

Season & Year	:	Rabi, 2013
Problem	:	Use of imbalance nutrient in Wheat affect crop yield as well as cost of cultivation
Thematic Area	:	Integrated Nutrient management
Name of Technology	:	Use of RDF (Recommended dose of fertilizers) as per recommendation of Zonal station of IGKV Raipur/Ambikapur/Jagdapur
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Integrated Nutrient Management under Wheat based on soil test crop response studies (STCR)
T₃	:	-
Observation to be recorded	:	1. Yield 2. No. of tillers/Plant 3. Plant height 4. BC : Ratio 5. Net income 6. Feed back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Khema Das Mahant

OFT- 26

Title : Assessment of STCR based nutrient management in Chick Pea

Season & Year	:	Rabi, 2013
Problem	:	Use of imbalance nutrient in Chick Pea affect crop yield as well as cost of cultivation
Thematic Area	:	Integrated Nutrient management
Name of Technology	:	Use of RDF (Recommended dose of fertilizers) as per recommendation of Zonal station of IGKV Raipur/Ambikapur/Jagdapur
Source of Technology	:	IGKV, Raipur
Farmer's Practice (T₁)	:	Local
Assessed Recommended Practice (T₂)	:	Integrated Nutrient Management under Chickpea based on soil test crop response studies (STCR)
T₃	:	-
Observation to be recorded	:	1. Yield 2. No. of Pod /Plant 3. Plant height 4. BC : Ratio 5. Net income 6. Feed back
No. of Trails (Replication)	:	04
Name of SMS responsible for OFT	:	Shri Khema Das Mahant

Summery of FLD to be Conducted

S. No.	Season	Title of FLD	Crop Technology	Area in (ha) / No.
1.	Khariif 2013	Demonstration on Pigeon pea variety Rajeevlochanv with recommended package of practices	Pigeon pea	05
2.	Khariif 2013	Demonstration on Sesame variety JT-21with recommended package of practices	Sesame	05
3.	Khariif 2013	Demonstration on Rice varieties with recommended package of practices	Rice	15
4.	Rabi 2013-14	Demonstration on ChickPea variety Indira Chana-1 with recommended package of practices	Chickpea	10
5.	Rabi 2013	Demonstration on Wheat variety Ratan with recommended package of practices	Wheat	05
6.	Rabi 2013	Demonstration on Mustard variety Pusa Bold with recommended package of practices	Mustard	05
7.	Rabi 2013	Demonstration on Safflower variety JSF-1with recommended package of practices	Safflower	05
8.	Rabi 2013	Demonstration on Oyster Mushroom variety	Mushroom	05
9.	Rabi 2013	Demonstration on Onion variety Agrifound Dark Red with recommended package of practices	Onion	05
10.	Summer 2013	Demonstration on Maize variety Navjot with recommended package of practices	Maize	05
11.	Summer 2013	Demonstration on Black gram variety Indira Urd-1 with recommended package of practices	Black gram	05
12.	Summer 2013	Demonstration on Green gram variety Parry Moong with recommended package of practices	Green gram	05

FLD-1

Tilte of FLD	FLD on Paddy
Season & Year	Kharif 2013
Number of Demonstrations	36
Farmers Practices	Using broadcast method of sowing, Seed treatment is not in practice, Low yield varieties, Low yield due to Leaf blast, sheath blight, stem borer, gall midge, lack of knowledge of suitable fungicides & insecticides, unawareness of balance fertilizers and nutrient management.
Problem diagnose	Low productivity of old variety .
Thematic area	DM, Farm Mechanization, CP, INM & IPM
Name of Technology	High yielding variety, Line sowing by TD Seed cum fertilizer drill, Plant protection measures, Application of nutrients .
Details of technology selected	Maheshwari – Leaf Blast and Sheath blight resistant, Gall midge, Stem borer resistant (130-135 days). Durgeshwari -Leaf Blast, Sheath blight and Sheath rot resistant, Gall midge, resistant (130-135 days). Indira Sona (Hybrid) – Blast and Gall midge resistant. Indira Sugandhit dhan-1 - Gall midge resistant.
Source of technology (Year)	IGKVV 2008
Characteristic of technology	It improves the yield and quality of grains, protects the crop from diseases and insects.
Farming situation	Midland-Rainfed.
Performance indicator/parameter	Yield, Major disease/pest incidence, FIM, INM
Name of SMS responsible for FLD	N.K.Toorray, S.Shantiaya, S.K. Suryavanshi, D.K.Kaushik & K.D.Mahant.

FLD-2

Tilte of FLD	FLD on Pigeon pea
Season & Year	Kharif 2013
Number of Demonstrations	12
Farmers Practices	Cultivation of Arhar variety of Asha using broadcast method of sowing.
Problem diagnose	Low productivity of old variety .
Thematic area	IDM & CP
Name of Technology	High yielding variety.
Details of technology selected	Rajivlochan, Average yield-18-20 Q/ha., Duration-180-190 days, Wilt and sterility resistant var.
Source of technology (Year)	IGKVV 2008
Characteristic of technology	It improves the yield and quality of grains, protects the crop from wilt and sterility mosaic disease.
Farming situation	Upland - Rainfed
Performance indicator/parameter	Plant population, Pods, Test weight & Major disease/pest incidence.
Name of SMS responsible for FLD	N.K. Toorray & S.K. Suryavanshi

FLD-3

Tilte of FLD	FLD on Sesamum (Til)
Season & Year	Kharif 2013
Number of Demonstrations	12
Farmers Practices	Farmers grow paddy or local Til variety with low productivity.
Problem diagnose	Low yield due to – Use of local variety seed - Imbalance use of fertilizer - Infestation of leaf blight disease
Thematic area	INM & IDM
Name of Technology	JT -21, high oil content ,white seeded, tole to Bact leaf spot & dwarf plant.
Details of technology selected	Application of sulphur, balance fertilizer & Improved plant protections measures .
Source of technology (Year)	IGKVV , Raipur
Characteristic of technology	It improves the yield and quality of grains, protects the crop from diseases and insects.
Farming situation	Upland-Rainfed
Performance indicator/parameter	Plant population, Pods, Test weight & Major disease/pest incidence.
Name of SMS responsible for FLD	N.K. Toorray & K.D. Mahant

FLD- 4

Tilte of FLD	FLD on Chick pea
Season & Year	Rabi 2013
Number of Demonstrations	24
Farmers Practices	Broadcast method of sowing, No seed treatment, Use of poor quality seed & Imbalance of fertilizers
Problem diagnose	Low yield due to – Use of local variety seed - Seed treatment not in practice - Imbalance use of fertilizer - Infestation of pod borer & wilt
Thematic area	Farm Mechanization, IDM, CP & INM
Name of Technology	Varietal & IDM Indira Chana -1, High yielding ,Medium duration , Wilt resistance ,tolerant to high tem & drought
Details of technology selected	Introduction of new variety , use of balance fertilizer & Improved plant protection measures .
Source of technology (Year)	IGKVV , 2010
Characteristic of technology	It improves the yield and quality of grains, protects the crop from diseases and insects.
Farming situation	Midland-Rainfed
Performance indicator/parameter	Plant population, Pods, Test weight & Major disease/pest incidence,FIM
Name of SMS responsible for FLD	N.K.Toorray, S.Shantiaya, S.K. Suryavanshi, & K.D.Mahant.

FLD-5

Tilte of FLD	FLD on Mustard
Season & Year	Rabi 2013
Number of Demonstrations	12
Farmers Practices	Utera or kept field fallow after harvest of paddy No seed treatment, Use of poor quality seed & Imbalance of fertilizers
Problem diagnose	Low yield due to – Use of local variety seed - Imbalance use of fertilizer - Infestation of Apid
Thematic area	CP and IPM
Name of Technology	Varietal, INM & IPM Variety: Pusa Bold, Grain medium bold and brown in colour, Medium duration & High yielding.
Details of technology selected	Sulphur, balance fertilizer & Improved plant protections measures
Source of technology (Year)	IGKVV , 2009
Characteristic of technology	It improves the yield and quality of grains.
Farming situation	Midland-Rainfed
Performance indicator/parameter	Plant population, Pods, Test weight & Major disease/pest incidence.
Name of SMS responsible for FLD	S.K. Suryavanshi, D.K. Kaushik & S. Rajput

FLD-6

Tilte of FLD	FLD on Safflower
Season & Year	Rabi 2013
Number of Demonstrations	12
Farmers Practices	Utera or kept field fallow after harvest of paddy No seed treatment, Use of poor quality seed & Imbalance of fertilizers
Problem diagnose	Low yield due to – Use of local variety seed - Imbalance use of fertilizer - Infestation of Apid
Thematic area	CP and IPM
Name of Technology	Varietal& IPM JSF-1 – Apid resistant var., duration 135-145 days.
Details of technology selected	sulphur,balance fertilizer & Improved plant protections measures .
Source of technology (Year)	IGKVV
Characteristic of technology	It protects the crop from insect –pests.
Farming situation	Midland-Rainfed
Performance indicator/parameter	Plant population, Pods, Test weight & Major disease/pest incidence.
Name of SMS responsible for FLD	S.K. Suryavanshi & D.K. Kaushik

FLD-7

Tilte of FLD	FLD on Wheat
Season & Year	Rabi 2013
Number of Demonstrations	12
Farmers Practices	Used Lok-1 variety
Problem diagnose	Low yield potential of existing Lok-1 variety .
Thematic area	Farm Mechanization, Crop production and DM
Name of Technology	Ratan, Average yield- 20-22 Q/ha., Duration-110-115 days.
Details of technology selected	Rainfed Wheat
Source of technology (Year)	IGKVV , Raipur
Characteristic of technology	High yielding variety
Farming situation	Upland and Midland-Irrigated
Performance indicator/parameter	No. of effective tillers/m ² , No. of grains per penicle, Test weight, Major disease/pest incidence.
Name of SMS responsible for FLD	N.K. Toorray, S.Shantiaya, K.D. Mahant

FLD-8

Tilte of FLD	FLD on Mushroom -Cultivation
Season & Year	Rabi 2013
Number of Demonstrations	16
Farmers Practices	Low yield verities, lack of knowledge of production technology, unawareness.
Problem diagnose	Low productivity of old variety and unawareness of Mushroom production tech.
Thematic area	Mushroom
Name of Technology	High yielding variety of oyster Mushroom.
Details of technology selected	Indira Sweta
Source of technology (Year)	IGKVV
Characteristic of technology	High yielding and high nutritious variety
Farming situation	Irrigated
Performance indicator/parameter	Yield
Name of SMS responsible for FLD	N.K. Toorray

FLD-9

Tilte of FLD	FLD on Onion
Season & Year	Rabi 2013
Number of Demonstrations	12
Farmers Practices	Low yield varieties
Problem diagnose	Low productivity of old variety .
Thematic area	Horticulture
Name of Technology	Onion Agri Found Dark Red
Details of technology selected	Improved Variety
Source of technology (Year)	IGKVV
Characteristic of technology	High Yielding
Farming situation	Upland-Irrigated
Performance indicator/parameter	Yield
Name of SMS responsible for FLD	S. Rajput

FLD-10

Tilte of FLD	FLD on Maize
Season & Year	Summer 2013
Number of Demonstrations	12
Farmers Practices	Low yielding var.
Problem diagnose	Either grow relay crop with low productivity or kept field fallow.
Thematic area	Farm Mechanization, CP, and IPM
Name of Technology	Varietal introduction (Navjot), IPM and FIM.
Details of technology selected	High yielding, Short duration, maturity 85-90 days, 40 q/ha.
Source of technology (Year)	IGKVV
Characteristic of technology	High yielding.
Farming situation	Upland- Irrigated
Performance indicator/parameter	Plant population, Pods, Test weight & Major disease/pest incidence.
Name of SMS responsible for FLD	S.Shantiaya, S.K. Suryavanshi, D.K. Kaushik

FLD-11

Tilte of FLD	FLD on Block Gram (Urd)
Season & Year	Summer 2013
Number of Demonstrations	12
Farmers Practices	Low yield varieties and low yield due to yellow mosaic and Powdery mildew.
Problem diagnose	Low productivity of old variety .
Thematic area	CP, DM and IPM
Name of Technology	High yielding and disease resistant variety.
Details of technology selected	Indira Urd-1- yellow mosaic and Powdery mildew resistant, duration 75-80 days, yield 12-14q/ha.
Source of technology (Year)	IGKVV
Characteristic of technology	High yielding and disease resistant variety.
Farming situation	Midland-Irrigated
Performance indicator/parameter	Yield
Name of SMS responsible for FLD	N.K.Toorray, S.K. Suryavanshi, D.K.Kaushik & K.D.Mahant.

FLD-12

Tilte of FLD	FLD on Green Gram (Moong)
Season & Year	Summer 2013
Number of Demonstrations	12
Farmers Practices	Low yield varieties and low yield due to yellow mosaic and Powdery mildew.
Problem diagnose	Low productivity of old variety .
Thematic area	CP, INM , DM and IPM
Name of Technology	High yielding and disease resistant variety.
Details of technology selected	Paary Moong- yellow mosaic and Powdery mildew resistant, duration 90-95 days, yield 10-12q/ha.
Source of technology (Year)	IGKVV
Characteristic of technology	High yielding and disease resistant variety.
Farming situation	Midland-Irrigated
Performance indicator/parameter	Yield
Name of SMS responsible for FLD	N.K.Toorray, S.K. Suryavanshi, & D.K.Kaushik.

No. of Trainings 2013-14

Particulars	No. of Trainings	No. of Courses	Total duration	Expected No. of participants
Farmers and Farm women	65	65	65	2200
In-service personnel	06	06	06	240
Rural youth	05	05	09	200
Vocational training	03	03	15	150
Total	80	80	101	2790

Proposed Extension Activities 2013-14

Activities	No.	Expected Participants/ beneficiaries
Field Days	05	Mass
Kisan Mela	05	Mass
Kisan Gosthi/ Farmers Meeting	06	250
Ex- trainees Meet	05	150
Diagnostic Visit to farmers Fields	25	200
Farmers Visit to KVK	600	Mass
Exhibitions	05	250
Film Shows	10	Mass
Radio Programmes	12	Mass
TV talks	04	Mass
Animal Health Camp	02	100
SAC Meeting	01	40
News Letter	04	2000
Soil & Water Sample Tested	05	50
Newspaper Coverage	40	Mass
Village Survey	02	100
Scientist visit to farmers field	50	300
Group Meeting	06	150

Proposed Convergence/Collaboration with allied Departments/agencies

Name of the Scheme	Funding agency	Activities
ATMA	Dept. of Agric., Janjgir	Trainings, Demonstrations, Joint Diagnostic visit
RKVY	State Govt./IGKV	Trainings & Demonstrations
BGREI	State Govt	Monitoring
NHM	Dept. of Horti., Janjgir	Training and exposure visit
MG NREGA	Jila Panchayat	Plantation
BRGF	Jila Panchayat	Mushroom training, Exposure visit
IAP	Jila Panchayat	Agriculture Related Developmental work
XIIIth Finance	Jila Panchayat	Agriculture Related Developmental work

PROPOSED SEED PRODUCTION IN KVK'S (2013-14)

Crop	Quantity grade wise (q)		
	Category	Area (ha.)	Total (q)
Kharif 2013			
Rice/ Mahamaya	B/F	2.0	50.0
Pigeon pea/ Rajeev Lochan,	B/F	2.0	20.0
Rice/ Chandrahasini	B/F	1.0	25.0
Rice/ Bamleshwari	B/F	1.0	25.0
Rice/ Mahamaya	F/C	4.0	100.0
Rice/ Swarna	F/C	2.0	60.0
Total		12.0	280.0
Rabi 2013-14			
Chickpea/ Vaibhav	F/C	5.0	100.0
Wheat/GW 273	F/C	4.0	80.0
Mustard/Pusa Bold	F/C	2.0	16.0
Total		11.0	196.0