

ACHIEVEMENTS OF KVK, CICR, NAGPUR DURING THE PERIOD 2002 TO 2003

Training Imparted

On-Campus

Sl.No	Discipline	No.of courses	No. of participants			No. of SC/ST participants		
			Male	Female	Total	Male	Female	Total
1.	Practicing Farmers	17	229	124	353	126	70	196
2.	Rural Youth	24	391	175	556	143	74	217
3.	Extension Functionaries	6	72	-	72	-	-	-
	Grand Total	47	692	299	991	269	144	413

Off-Campus

Sl.No	Discipline	No.of courses	No. of participants			No. of SC/ST participants		
			Male	Female	Total	Male	Female	Total
1.	Practicing Farmers	50	913	97	1010	337	53	400
2.	Rural Youth	18	342	96	438	144	39	183
3.	Extension Functionaries	3	21	285	306	8	182	190
	Grand Total	71	1276	478	1754	489	274	773

On + Off Campus

Sl.No	Discipline	No.of courses	No. of participants			No. of SC/ST participants		
			Male	Female	Total	Male	Female	Total
1.	Practicing Farmers	67	1142	221	1363	463	123	596
2.	Rural Youth	42	733	271	1004	287	113	400
3.	Extension Functionaries	9	93	285	378	8	182	190
	Grand Total	118	1968	777	2745	758	418	1186

Sponsored Training Programmes

Sl.No.	Discipline	Month	No. of courses	Duration	No. of participants			No. of SC/ST Participants			Grand total	Sponsoring Agency
					Male	Female	Total	Male	Female	Total		
				Days								
1.	Crop Protection	July, 2003.	1	1	30	5	35	12	-	12	47	CCI & CICR
2.	Crop Protection	Aug, 2003	1	1	45	5	50	15	-	15	65	CCI & CICR
3.	Crop Production	July, 2003	2	1	30	5	35	12	-	12	47	CCI
4.	Crop Production	Aug, 2003	1	1	45	5	50	15	-	15	65	CCI
5.	Extension	Mar, 2003	1	1	46	4	50	19	-	19	50	Dir. Of Mktg. & Insp., Dept. of Agri. & Coop.
6.	Extension	Mar, 2003	1	1	50	-	50	16	-	16	50	-do-
7.	Extension	Mar, 2003	1	1	50	-	50	18	-	18	50	-do-
8.	Extension	Mar, 2003	1	1	50	-	50	23	-	23	50	-do-
8.	Home Science	June, 2003	1	2	-	10	10	-	3	3	10	Britania Mahila Griha Udhog Nagpur
9.	Home Science	April, May, June, 2003	3	3	90	-	90	67	-	67	90	RCF Nagpur
10.	Vet. Science	July, 2003	3	1	20	4	24	4	1	5	24	Dept. of Animal Husbandry

Performance of FLD other than oilseeds and pulses

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
				Highest	Lowest	Average	Local check		Demonstration	Local check
Cotton (Irrigated)	NHH 44	4	4.8	11.25	10.00	10.44	9.00	16.0	2200/-	2600/-
Cotton (Rainfed)	NHH 44	3	3.6	8.00	7.00	7.50	6.25	20.0	1800/-	2100/-
Okra	<i>Parbhani Kranti</i>	15	2.0	48	-	-	-	20.00	500	-
	<i>Arka Anamika</i>	15	2.0	48	-	-	-	17.00	500	-

Demonstration conducted by KVK, CICR, Nagpur under Cotton Mini – Mission – II.

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
				Highest	Lowest	Average	Local check		Demonstration	Local check
Cotton	Var. CNH 120 MB with pest management practices	10	4.0	9.75	7.20	-	7.20	35.40	28.50	2300
Cotton	Ankur 651 with 2% DAP spray	10	4.0	8.25	7.20	-	7.20	14.60	2100	1900

Performance of instructional farm including seed production

S.No	Name of crop	Date of sowing	Date of harvesting	Area (ha)	Details of production			Amount	
					Variety	Type of produce	Quantity	Costs	Gross income
1.	Okra	July, 2002	Sept-Oct, 2002	0.1	Arka Anamika	Pods	1678	200	805
2.	Marigold	July, 2002	Nov, 2002	0.1	-	Flowers	488	100	480
3.	Tomato	July, 2002	Nov- Dec, 2002	0.2	H-1	Fruit	316.5	500	1449
4.	Chilly	July, 2002	Nov-Dec, 2002	-	G-4	Pods	7 Kg.	-	35
5.	Methi	Oct, 2002	Jan, 2003	-	-	-	20 Kg.	-	100
6.	Corriyonder	Oct, 2002	Jan, 2003	-	-	-	6.5 Kg.	-	65
7.	Pomegranate	July, 2002	Jan, 2003	-	Ganesh	Fruit	9 Kg.	-	135
8.	Fodder jowar	July 2002	Oct 2002	0.4	MP chari	Seed & Kadbi	50 Kg seed	900	Distributed as critical input
9.	Cotton	June 2002	Jan 2003	0.4	PKV Hy-4	Seed cotton	4 q-	8000	8000

Performance of demonstration units at KVK, CICR, Nagpur

S.No	Demonstration unit	Year of establishment	Area (ha)	Details of production			Amount		Remarks
				Variety	Type of produce	Quantity (kg/nos.)	Cost	Gross income	
1.	Mushroom	1999	10 sq.m.	Pleurotus sajor kaju	Spawn	15	200	500.00	Distributed to the trainees
2.	Preservation	1999-2001	10 sq.m.	-	Pickle murabba	6 8	250	500.00	-
3.	Nutrition garden	1998	700 sq.m.	Brinjal	Seasonal vegetables and fruits	15	400	1153.00	
			Tomato	5					
			Fenugreek	38					
			Spinach	20					
			Banana	10					
			Drumstick	54					
			Clusterbean	7					
			Corriyonder	12					

Innovative technology or innovative methodology followed

- Supplied *Osmanabadi* bucks to ---farmers to improve genetic potential of local goats.
- Adoptions of new high yielding variety of fodder *Jowar PVK- 801* at instructional farm.
- Budding of Nagpur *Santra(Orange)* on Wood Apple was successful at KVK farm
- Use of biofertilisers for soybean and chickpea
- Adoption of JS-335 soybean high yielding variety
- Adoption of ICP-8863 pigeonpea high yielding variety
- Adoption of Vijay chickpea variety
- Adoption of *fusarium* wilt resistant pigeon pea variety *Maruti*
- Adoption of early maturing cotton hybrids H10 etc. by the farmers to escape bollworms damage & carry over.
- Use of Marigold as trap crop in cotton for *Heliothis* management
- Use of Marigold as trap crop in Vegetable Crops like Tomato.
- Use of Sex Pheromone Trap in Cotton and Chickpea by the farmers.
- Use of HNPV by the farmers in Cotton due to ineffectiveness of Chemical Pesticides in *Heliothis* control.
- Local application of salt and chilly powder instead of Astringent lotion on scabby lesions around muzzle and lips in case of contagious ecthyma in goats

Indigenous technology practiced by the farmer

- Sowing of chickpea by *Deshi* plough rather than seed drill for placing the seeds in deeper soil zone.
- Cotton-soybean-chickpea two year crop rotation for restoring soil fertility.
- Seed treatment by Turmeric and Asafoetida (*Heeng*) powder in some villages of the district by some farmers.

Methodology followed for formulation of training programs:

- Lectures were followed by practical field demonstrations, display of live insect and disease material, live and preserved damage infested material, colored photographs, charts etc., distribution of lecture notes and folders, exercise on working out ETL of different pest by the trainees in the discipline of crop protection to farmers rural youth and extension functionaries.
- Identification of courses for farm women-As per survey needs were identified and on priority basis training and demonstration were conducted
- Rural youth - As per survey needs were identified and on priority basis training and demonstration were conducted
- In -service personnel - Group discussion and individual contact with the in -service personnel of ICDS, training areas are identified and conducted also.

Impact of Training Programmes Conducted

Name of specific Technology/skill transferred	Discipline	PFM/PFF/RYP/RYM	No. of person trained	% of Adoption	Change of Income	
					Before training (Rs./Unit)	After training (Rs./Unit)
Fooder production and its conservation	Vet.Sci.	PFM	25	72	Fooder cultivation was not in practice	300/- per month
Identification of estrus and A.I. in cows	Vet.Sci.	PFM	12	66	-	Improvement in knowledge
Care and management of lactating cows and buffaloes in summer	Vet.Sci.	PFM	09	65	1500/- per animal per month	1950/- per animal per month
Goat production technology*	Vet.Sci.	RYM/RYP	140	69	-	Most of them are engaged in goat farming and earning about Rs. 3000/- per month
Dairy cattle management	Vet.Sci.	PFM/ RYM	17	70	1500/- per month	2000/- per cattle
Plantation of fruit crop	Horticulture	PFM/ RYM	17	50	Plantation is 10 acres	Plantation in 40 acres
Tomato production technology	Horticulture	PFM/RYM	10	60	15000/- per ha	17000/- per ha
Nutrient management in citrus	Horticulture	PFM/RYM	30	60	13000/- per acre	15200/- per acre
IPM in Cotton	Extension	PFM	30	58	16000/- per ha	19000/- per ha
Recycling of Farm Waste	Extension	PFM	23	56	-	Farm Waste & crop Reduces were recycled in to compost
Integrated Cotton Production Technology	Extension	EF	213	95	-	Updated knowledge regarding cotton production
Spraying of water on sand and Hessian cloth for lowering the temperature and increasing the humidity of low cost mushroom unit.	Home Sci.	RYP/RYM	19	58	50% loss of yield	Output increased by 50%
Rodent control in fields and houses	Crop Prot.	PFM	15	80	Romanticize was not in practice	Av. Rs.600/- saving annually/ha
Neem seed extract preparation and use	Crop Prot.	PFM	10	50	Was not in practice	Av. Rs.700/- saving annually/ha
Use of marigold as a trap crop in cotton IPM	Crop Prot.	PFM	15	60	Was not in practice	Av. Rs.500/- saving annually/ha
Preparation and use of bordeaux paste in citrus orchards	Crop Prot.	PFM	18	83	Bordex paste was not used in proper proportion	Av. Rs.5000/- saving annually/ha
Cotton IPM	Crop Prot.		12	58	Income Rs.7000/ha	Income Rs.8000/ha
Management of Inderbella in citrus	Crop Prot.	RYM	23	65	Rs.8000/ha	Rs.85000/ha
Use of pheromone traps in cotton	Crop Prot.	RYM	15	53		Saving of Rs.500/ ha on one spray
Proper spray techniques	Crop Prot.	RYM	15	73		Saving of Rs.1000/ ha in one crop season
Installation and management of smokeless chullah	H.Sc.	RYP	103	100	More fuel consumption, Drudgery and health problems	Fuel consumption is reduced, helped in reducing drudgery, health problems.
Establishment of fruit garden	Hort.	PFM	15	15		Plantation on 2 ha. area
Integrated cotton production technology	Agro.	PFM	39	55	Rs.12000/-	Rs.15000/-
INM in soybean	Agro.	PFM	30	60	Rs.14000/-	Rs.18000/-
Irrigation management in weed	Agro.	PFM	13	80	Rs.8000/-	Rs.10000/-
Organic farming	Extn.	PFM	83	65		Saving in expenditure
Vermicompost production	Extn.	PFM	18	51		Saving of Rs.300/ on purchase of FYM

* Combined impact of 10 training programmes, which were organized from Oct 2001 to Oct 2002, is given.

Other Extension Activities Organized

Sl.No.	Activity	Date	No. of beneficiaries (Farmers / Rural Youth)			No. of Extension Functionaries		
			Male	Female	Total	Male	Female	Total
I.	Kisan Melas							
i.	Rashtriya Kapas Mela	7.12.02	1500	500	2000	-	-	-
ii.	Pre-kharif Kisan Mela	26.5.03	100	17	117	21	-	21
iii.	Kisan Parishad	12.6.03	2000	500	2500	217	-	217
II.	Field Days							
i.	World Food Day	16.10.02	51	-	51	-	-	-
ii.	Kisan Samman Divas	23.12.02	250	50	300	-	-	-
iii.	Pulses Day	27.3.03	25	-	25	-	-	-
iv.	Krishi Din	3.3.03	100	30	130	-	-	-
v.	Krishi Din	1.7.03	200	50	250	100	-	100
vi.	Krishi Divas at Hingna	14.8.03	200	30	230	100	-	100
vii.	Women in Agriculture Day	26.12.02	-	100	100	-	-	-
viii.	Fruit crop plantation day	21.7.03	20	-	20	-	-	-
ix.	Phool Gyan Divas	20.12.02	50	-	50	-	-	-
III.	Farmers Meet							
i.	Farmers meet on contract farming on cotton, Dhamangaon	1.4.03	875	125	1000	-	-	-
ii.	Farmers meet on contract farming on cotton, Saoner	2.6.03	700	-	700	18	-	18
iii.	Farmers Meet on Sericulture	28.6.03	150	-	150	-	-	-
IV.	Film Shows							
i.	Pest of arhar	10.10.02	30	-	30	-	-	-
ii.	IPM in cotton	4.12.02	-	-	-	17	-	17
iii.	Recycling of farm waste	19.10.02	14	9	23	-	-	-
iv.	IPM in cotton	11,14,18 & 21.12.02	-	-	-	52	10	62
v.	Vermicompost production	28.1.03	22	-	22	-	-	-
vi.	Cultivation of summer groundnut	29,30.1.03 & 3.2.03	79	12	99	-	-	-
vii.	Recycling of farm waste	28.8.03	15	-	15	-	-	-
V.	Exhibitions							
i.	Exhibition at Diksha Bhoomi	13-15.10.02	2000	500	2500	-	-	-
ii.	Rashtriya Kapas Mela	7.12.02	800	250	1050	-	-	-
iii.	Kisan Exhibition at Pune	11-15.12.02	6000	1000	7000	-	-	-
iv.	Exhibition at New Delhi	21-23.12.02	6500	500	2400	-	-	-
v.	Agrotech Exhibition at Nagpur	27-30.12.02	2000	400	350	-	-	-
vi.	Exhibition at Ghogli	23.2.03	300	50	2500	-	-	-
vii.	Exhibition at Krishi Vikas Parishad, Boriarab	12.6.03	2000	500		217	-	217
VI.	Exposure Visit							
i.	Exposure visit to Client farmers at Akola	27.11.02	50	-	50	-	-	-

Development indicators for KVK operational area

Sl.No.	Item	1994 – 95	Current Year (2002)
1.	Crop Intensity (%)	123.4%	
2.	Productivity (q/ha)		
	a) Cereal Crops	751 kg/ha	980 kg/ha
	b) Pulses	361 kg/ha	620 kg/ha
	c) Oilseeds	529 kg/ha	1190 kg/ha
	d) Overall		
	e) Av. Milk production (lit / cow / day)	2	3
3.	Irrigated area		136500
4.	Use of HYV (High Yielding Variety (%))	50	75
5.	Use of fertilizers (NPK, kg/ha)	60:25:15	75:45:25
6.	Use of biofertilizers (ha)	Nil	1.5
7.	No. of Tractors / Machinery	5	9
8.	No. agro – industry	-	-
9.	Change in environment & ecology		
	a) No. of trees planted by the farmers	25	55
	b) Wasteland regenerated (ha)	-	-
10.	Employment generated (man days)	200	220
11.	Economics indicators		
	a) Net return / ha	7500	8100
	b) Average income of the family Milk (Rs / cow /yr)	24000	30000
		3500	4500

SIGNIFICANT ACHIEVEMENTS IN 2002 – 2003

1. Though the numbers of on campus training programmes proposed were 31, in fact KVK, Nagpur conducted 47 training programmes i.e. 16 more training programmes were conducted than the target.
2. KVK, Nagpur conducted 71 training programmes as against the proposed off-campus training programmes.
3. KVK, Nagpur has established 25 vermicompost units in the farmer's field.
4. KVK, Nagpur has established 2 rose – nurseries in the farmers field.
5. KVK, Nagpur has established fruit garden on 3 acres of land in the farmers field.
6. KVK, Nagpur has established fruit garden on 3 acres area in the demonstration block of KVK, CICR, Nagpur.
7. KVK, Nagpur has established 4 goat units, 2 buffalo units and 1 cattle unit in the farmers field.
8. KVK, Nagpur has established 3 mushroom units in the farmers field.
9. KVK, Nagpur has established 4 cool chambers in the farmers field.
10. KVK, Nagpur has published 31 popular articles for the benefit of the farmers. Most of these are in local Marathi language.
11. In our endeavour to disseminate agricultural technologies amongst farmers, KVK organized 5 Kisan Melas.
12. In our endeavour to disseminate agricultural technologies and agricultural information, we organized Kisan Goshties.
13. In our endeavour to disseminate agricultural technologies, we organized 15 Field Days.
14. In our endeavour to disseminate agricultural technologies and agricultural information, KVK's scientists delivered 42 guest lectures in various Kisan Melas.
15. The staff of KVK, CICR, Nagpur participated in 12 Radio Programmes on various topics.
16. The staff of KVK, CICR, Nagpur participated in 11 T.V. programmes on various topics.
17. In order to assess the performance of goat units established so far by KVK, CICR, Nagpur and to know the difficulties of goat farmers, we sent letters to them. The feedback received was as underneath.

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