

ACHIEVEMENTS OF KVK, CICR, NAGPUR DURING THE PERIOD 1994 TO 2001

Training programmes for practicing farmers

S.No.	Discipline	No. of courses	Total number of participants			No. of SC/ST trainees		
			Male	Female	Total	Male	Female	Total
1.	Agronomy	38	938	3	941	175	3	178
2.	Plant protection	52	955	23	978	213	1	214
3.	Horticulture	84	1245	162	1407	560	30	590
4.	Veterinary Science	47	436	101	537	250	50	300
5.	Home Science	23	142	319	461	24	255	279
6.	Extension	17	607	13	620	175	4	179
	Total	261	4323	621	4944	1397	343	1740

Training programmes for rural youth

S.No.	Discipline	No. of courses	Total number of participants			No. of SC/ST trainees		
			Male	Female	Total	Male	Female	Total
1.	Agronomy	9	175	-	175	27	-	27
2.	Plant protection	37	374	5	379	216	2	218
3.	Horticulture	27	279	70	349	94	19	113
4.	Veterinary Science	66	1008	30	1038	374	7	381
5.	Home Science	54	130	995	1125	37	643	680
6.	Extension	5	100	9	109	40	-	40
	Total	198	2066	1109	3175	788	617	1459

Training programmes for Extension Functionaries

S.No.	Discipline	No. of courses	Total number of participants		
			Male	Female	Total
1.	Agronomy	27	674	1	675
2.	Plant protection	34	628	2	630
3.	Horticulture	16	302	-	302
4.	Veterinary Science	7	59	-	59
5.	Home Science	2	-	37	37
6.	Extension	57	1259	4	1263
	Total	143	2922	44	2966

Extension Activities

Activity	1995-96		1996-97		1997-98		1998-99		1999-00		2000-01		2001-02		Total	
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
Field Days	1	57	1	30	2	160	6	561	5	224	4	259	1	42	20	1333
Kisan Goshthi	-	-	-	-	1	387	1	63	1	37	3	129	-	-	6	616
Ex-trainees Sammelan	-	-	-	-	1	28	1	32	2	63	-	-	-	-	4	123
Radio Talk	-	-	-	-	2	-	3	-	7	-	10	-	5	-	27	-
TV Shows	-	-	-	-	3	-	2	-	1	-	2	-	2	-	10	-
Films Shows	-	-	7	210	15	468	9	276	13	520	13	623	6	150	63	2248
Animal Treatment Camp	-	-	-	-	-	-	1	15 (AT- 35)	2	32 (AT -67)	4	44 (AT - 193)	5	48 (AT -204)	12	139 (AT 499)
Calf Rally	-	-	-	-	-	-	-	-	-	-	-	-	1	15	1	15
Van-mahotsava	-	-	-	-	-	-	1	114	1	136	1	112	-	-	3	362
Participation in Agri. Exhibitions	-	-	2	3069	1	2500	4	2582	4	8150	4	2500	2	6938	17	2047 6
Rashtriya Kapas Mela	-	-	1	257 8	1	1500	1	2830	1	1700	1	1200	1	1350	6	1115 9
Women in Agril. Day	-	-	-	-	-	-	1	41	1	43	1	29	1	75	4	198
World Food Day	-	-	-	-	-	-	1	163	1	108	1	96	-	-	3	367
Symposium on Organic Farming	-	-	-	-	-	-	-	-	-	-	-	-	1	143	1	143
Hygiene & Sanitation Week	-	-	-	-	-	-	-	-	-	-	1	350	-	-	1	350
National Nutrition Week (Hort.)	-	-	-	-	-	-	-	-	-	-	1	50	-	-	1	50
Vegetable Production Gyan Week	-	-	-	-	-	-	-	-	-	-	-	-	1	55	1	55

AT – Animals Treated

N = No. of Programs P = No. of participants

Details of FLDs (Oilseed and Pulses) under Agronomy (1997 – 2002)

Year	Crop	Village	Technology demonstrated	No. of Farmers	Area (ha)	Yield of demonstration (q/ha)	Yield of farmer (q/ha)	Increase over farmers practice (%)
1997	Chickpea	Sawangi	Vijay high yielding chickpea variety	8	3.20	12.0	9.00	33.33
1998	Chickpea	Sawangi	ICCV-2 Kabuli Chickpea	10	4.0	7.00	10.00	-
1999	Chickpea	Sawangi	Vijay – high yielding variety	5	2.2	13.00	10.00	30.00
2000	Chickpea	Kaldongri	Vishal high yielding variety	10	4.0	5.00	4.80	04.16
2001	Chickpea	Banwadi, Kaldongri	IPM in chickpea	20	4.0	7.12	5.00	42.4
2002	Chickpea	Banwadi, Kaldongri	IPM in chickpea	10	4.0	14.00	5.00	62.36
1997	Sunflower	Kandli	PC-36 high yielding sunflower hybrid	1	0.4	12.50	10.00	25.00
1998	Sunflower	Mathani	Nutrient Management in Sunflower	13	5.2	12.75	11.60	09.91
1999	Sunflower	Mathani	Mahyco – 1 high yielding hybrid	13	5.2	11.00	8.00	37.00
1998	Soybean	Sawangi	JS – 335 High yielding variety	10	4.0	22.00	15.00	46.66
1999	Soybean	Sawangi	JS – 335 High yielding variety	13	5.2	23.00	16.00	09.91
2000	Soybean	Sawangi	INM	20	8.0	18.90	15.10	25.16
2000	Soybean	Banwadi	IPM in soybean	20	8.0	18.50	16.00	15.62
2001	Soybean	Kaldongri	INM in soybean	20	8.0	19.35	15.70	23.29
2001	Soybean	Kaldongri	IPM in soybean	20	8.0	17.55	15.09	18.17
2002	Soybean	Kaldongri	INM in soybean	20	8.0	11.50	10.00	15.00
2002	Soybean	Kaldongri	IPM in soybean	29	11.60	11.05	10.00	10.50
1998	Pigeonpea	Sawangi	ICP-8863	12	4.8	13.65	10.00	36.50
1999	Pigeonpea	Sawangi	IPM in pigeonpea (HNPV)	5	2.2	19.20	16.00	20.00
2000	Pigeonpea	Banwadi, Kaldongri	IPM in pigeonpea	20	8.0	15.46	12.78	20.97
2001	Pigeonpea	Telgaon, Tisthi	BSMR-736 high yielding pigeonpea variety	12	4.8	10.35	8.30	24.09
2002	Pigeonpea	Telgaon, Tisthi	BSMR-736 high yielding pigeonpea variety	10	4.00	13.30	9.22	30.68

Technology Evaluation and impact Assessment Projects (TEIAP)

Agronomy

Sr.No.	Year	Crop	Name of entries	Yield (kg/ha)	Source
1.	1999-2000	Pigeonpea	99 v 46	719.44	IIPR, Kanpur
			99 v 48	1356.48	
			99 v 49	1680.55	
			99 v 51	444.44	
2.	2000-2001	Sorghum Hybrid	CSH-17	2674	NRC for Sorghum, Hyderabad
			SPH-1037	780	
			SPH-1183	1537	
			CSH-9	1321	
			SPH-1065	2079	
			CSH-16	1595	
			SPH-960	577	
			SPH-1148	3869	
			CSH-13	1301	
3.	2000-2001	Sorghum Varieties	SPV 96	406	NRC for Sorghum, Hyderabad
			SPV 1489	1829	
			SPV 1472	2717	
			SPV 1474	4330	
			SPV 1479	3420	
			CSV 13	2022	
			SPV 1481	2990	
			SPV 462	2685	
			SPV 1482	3474	
			SPV 1487	2271	
			CSV 15	2211	
			SPV 1475	3261	

Inference:

2) Out of 9 sorghum Hybrids under the trial, SPH – 1148 gave the maximum grain yields and found suitable for Nagpur region.

3) Out of 12 Sorghum varieties under the trial SPV – 1474 gave the maximum grain yield and found suitable for Nagpur region.

Adaptive Trials

I) Agronomy

Sr.No.	Year	Crop / Animal	Treatments	Area (ha) Nos.	Yield (q/ha)	Response
1	1998	Chickpea	ICCV-2 Vijay Chaffa	0.80	7.00 15.00 10.00	Please see footnote
2	1999	Chickpea	G-12 Chaffa Vijay	0.80	11.00 10.00 13.00	Please see footnote
3	2000	Soybean	Biofertilizer (rhizobium)	1.50	20.00	Please see footnote
4	2000	Integrated Weed Management in cotton	Basalin	3.00	14.00	Please see footnote

- 1) In 1998, out of three varieties of Chickpea under the trail, Vijay gave the maximum grain yield and found suitable for Nagpur region.
- 2) In 1999, out of three varieties of Chickpea under the trail, Vijay gave the maximum grain yield again and found suitable for Nagpur region.
- 3) Normally the yield of soybean is 18 q/ha but due to use of Rhizobium an increase of 10% in yield was observed in year 2000.
- 4) Normally the yield of cotton is 12 q/ha but due to use of Basaline an increase of 10% in yield was observed in year 2000.

II) Crop Protection

Sr.No.	Year	Crop/Animal	Treatments	Area (ha)/Nos.	Yield (q/ha)	Response
1	1998-99	Chickpea (Vijay) Heliothis management	HNPV Chemical control Control	0.1 0.1 0.1	10.0 11.0 7.0	42.12% Increase in yield over control was observed due to use of HNPV 57.2% increase in yield over control was observed due to chemical control
2	1999-2000	Chickpea (Vijay) Heliothis management	HNPV Chemical control Control	0.1 0.1 0.1	8.8 9.25 6.9	27.73% Increase in yield over control was observed due to use of HNPV 57.3% increase in yield over control was observed due to chemical control
3	2000-2001	Chickpea (Vijay) Heliothis management	HNPV Chemical control Control	0.2 0.2 0.2	8.75 9.42 7.23	21.02% Increase in yield over control was observed due to use of HNPV 30.29% increase in yield over control was observed due to chemical control

Crop Demonstrations

1) Agronomy

Sr.No	Year	Crop	Component	No. of Farmers	Area (Ha)	
1.	1997	Cotton	Hybrids and varieties	On KVK Farm	1.0	
			Soybean cotton intercropping	On KVK Farm	1.0	
2.	1998	Cotton	25 cotton hybrids and varieties	On KVK Farm	1.0	
3.	1998	Cotton	Use of VAM biofertiliser and Rock phosphate in cotton	On KVK Farm	0.2	
			Cotton based cropping system with Urid (T-9) and Soybean (PKV-1)	On KVK Farm	0.2	
			Weed Management in cotton (Trifluralin 45% EC)	On KVK Farm	0.2	
	1998	Pigeonpea	Varietal demonstration ICPL -87, ICP 8863, BDN-2	On KVK Farm	0.4	
	1998	Soybean	Varietal demonstration JS 335, PKV 1, MACS 13	On KVK Farm	0.4	
4.	1999	Pigeonpea	Varietal demonstration ICP 8863, BDN-2, ICPL-87	On KVK Farm	0.4	
			Soybean	Varietal demonstration JS 335	On KVK Farm	1.0
				Cotton	Hybrids Demonstration	On KVK Farm
5.	2000	Crop cafeteria	Cotton, Sorghum, Sunflower, Soybean, Pigeonpea, Blackgram, Green gram	On KVK Farm	0.2	
		Pigeonpea	Varietal demonstration – ICP 8863, BDN-2, C-11	On KVK Farm	0.4	
		Soybean	Varietal demonstration – JS 335, PK 472, MACS 13	On KVK Farm	0.8	
6.	2001	Soybean	Nurtient management in Soybean	On KVK Farm	0.4	
		Pigeonpea	ICP-8863, BSMR-736, BDN 2, ICPL-87, ICPL-87119, C-11, AK-8811	On KVK Farm	0.4	
		Soybean	Varietal demonstration – JS335, PK 472, MACS 124, MACS 13	On KVK Farm	0.8	
		Cotton	Cotton Hybrids	On KVK Farm	0.8	

2) Veterinary Science

Sr.No	Year	Crop	Component	No. of Farmers	Area (Ha)
1.	1998-99	Fodder crop Jower Maize	Variety PVK – 400 Variety African tall	On KVK farm	0.6 0.6
2.	1998-99	Fodder crop Jower Maize	Variety PVK – 400 Variety African tall	Farmers field	0.8
3.	1999-2000	Jower	PVK – 400 Mahagujrath SSG (Hybrid)	KVK Farm	0.8 0.8
4.	1999-2000	Jower Jower Lucerne	PVK – 400 Variety Mahagujrath SSG (Hybrid) Gujrath - 1	KVK Farm	0.8 0.4 0.4
5.	2000-2001	Jower Maize	Mahagugrath SSG hybrid African Tall	KVK Farm	0.5 0.5
6.	2001-2002	Jower Maize	PVK – 801 African Tall	4 farmer 2 farmer	1.2 0.8
7.	2001-2002	Jower Maize	PVK – 801 African Tall	KVK Farm	0.6 0.6

3) Horticulture

Sr.No	Year	Crop	Component	No. of Farmers	Area (Ha)
1.	1996-97	Okra	Parbhani kranthi (PK)	KVK Farm	0.2
2.	1997-98	Okra	PK	KVK Farm	0.2
3.	1999-00	Okra	PK	KVK Farm	0.2
		Chilli	G4, Jayanti	KVK Farm	0.2
		Onion		KVK Farm	0.1
4.	2000-01	Okra	PK, Arka Anamica	KVK Farm	0.2
		Tomato	Pusa Ruby, Pusha early drwaf	KVK Farm	0.1
		Cluster beans	Pusa navbhar	KVK Farm	0.1
5.	1996-97	Tomato	Pusa Rubby	OFF Campus	0.4
6.	1997-98	Bhendi	PK	OFF Campus	2.25
7.	1998-99	Bhendi	PK	OFF Campus	1.0
		Tomato	Pusa Rubby	OFF Campus	1.0
		Chilli	G4, Jayanti	OFF Campus	1.6
		Brinjal	Arun	OFF Campus	1.0
8.	1999-00	Okra	PK	OFF Campus	1.20
		Tomato	Pusa Ruby	OFF Campus	1.0
		Chilli	G4	OFF Campus	1.0 ha
9.	2000-01	Tomato	Rubby	OFF Campus	1.0 ha
		Chilli	Jayanti	OFF Campus	1.0 ha
10.	1997-98	Okra	Yellow Mosaic Resistant varieties (PK)	15 Farmers	6 ha
11.	2000-01	Okra	Yellow Mosaic Resistant varieties (PK), Arka Anamika	13 Farmers	5.25 ha

Advisory services provided by KVK

Sr.No.	Year	Mode of advisory services	Queries of farmers	No. of farmers benefited
1) Agronomy				
1.	2002	Personal correspondence	<ul style="list-style-type: none"> ▪ Details of hybrids and varieties of cotton, soybean, sorghum, pigeonpea, chicken crops 	800
		Correspondence through letter	<ul style="list-style-type: none"> ▪ Regarding weedicides 	20
		Online correspondence	<ul style="list-style-type: none"> ▪ Details of hybrids and varieties of cotton, soybean, sorghum, pigeonpea, chickpea crops and production technologies of these crops 	155
		Diagnostic survey Year 1998 1998 1999 2000 - 02	<ul style="list-style-type: none"> ▪ Pest and disease of wheat and chickpea ▪ Bihar hairy caterpillar on Soybean ▪ Fusarium wilt in pigeonpea ▪ Nutritional deficiencies in citrus 	12 20 11 20
2) Horticulture				
1)	1996-2002	Personal correspondence	Cultivation of fruits, vegetable, flowers	1500
		Correspondence through letter	Cultivation of marigold	18
		Online Correspondence	Cultivation of Onion, Mango, and Amala	20
			Cultivation of fruits, vegetables, flowers	44
2)	1998	Diagnostic survey	<ul style="list-style-type: none"> ▪ Fruit drop in citrus 	20
	1998		<ul style="list-style-type: none"> ▪ Leaf curling in chilli 	10
	1999		<ul style="list-style-type: none"> ▪ Root rot in tomato 	
	1999		<ul style="list-style-type: none"> ▪ Cracking in tomatoes 	10
	1999		<ul style="list-style-type: none"> ▪ Flowering in citrus 	
	2000-02		<ul style="list-style-type: none"> ▪ Bacterial disease in rose 	18
3) Veterinary Science				
1)	1997-02	Personal correspondence	<ul style="list-style-type: none"> ▪ Establishment and management of Goat, Dairy and poultry unit 	1850
		Correspondence through letter	<ul style="list-style-type: none"> ▪ Fodder production and its conservation 	192
		Online correspondence		1350
		Diagnostic survey Year 1999 2000 2001 2002	<ul style="list-style-type: none"> ▪ Housing of goats & cattle ▪ Diseases of live stock ▪ Feed of poultry, goat and cattle ▪ Blood & faecal sample examination of livestock 	320
4) Home Science				
1)	1997-2001	Personal correspondence	<ul style="list-style-type: none"> ▪ Techniques of increasing shelf life of horticultural produce 	100
		Correspondence through letter	<ul style="list-style-type: none"> ▪ Mushroom production technology ▪ Construction of cool chamber 	48 10
2)	2001	Diagnostic survey	<ul style="list-style-type: none"> ▪ Maintenance of humidity & temperature in Mushroom production ▪ Precautionary measures to avoid green mould on mushroom bags & spawns 	
5) Extension				
1)	1996-2002	Personal correspondence	<ul style="list-style-type: none"> ▪ New varieties & hybrid in cotton 	1767
		Correspondence through letter	<ul style="list-style-type: none"> ▪ Tools of IPM in cotton 	143
		Online correspondence	<ul style="list-style-type: none"> ▪ Bio-agents in cotton an Establishment of vermicompost 	1281
2)	1998	Diagnostic survey	<ul style="list-style-type: none"> ▪ Heliothis on cotton 	122
	2001		<ul style="list-style-type: none"> ▪ Sucking pest attack on cotton 	
	2002		<ul style="list-style-type: none"> ▪ Leaf eating caterpillar on soybean 	

Publications

During the period 1994 to 2002, publications in local on the technologies developed by the CICR and SAU's are given below. These publications were distributed amongst the trainees, farmers and visitors.

Discipline	Popular articles			Booklets / leaflets	
	English	Marathi	Hindi	Marathi	Hindi
Agronomy	--	1	1	9	--
Plant protection	1	6	18	12	3
Horticulture	2	3	15	6	8
Veterinary science	1	15	1	12	--
Livestock production & Management	9	--	46	--	--
Home Science	--	2	1	3	--
Extension	--	4	--	9	--
Total	12	31	81	48	11

Hence a total of 183 publications were published by the scientists of KVK, CICR, Nagpur.

Establishment of Fruit crops at KVK farm

S.No.	Name of Unit	No. of fruit plants	Remark	Impact
1.	Guava Garden	275	The fruit units on high yielding varieties suitable for rainfed situation in Vidharbha region are established. The harvesting in guava, custard apple and pomogrante have been started.	Large no. of farmers are visiting the units. About 40 acres of area in adopted villages had been brought under fruit plantation.
2.	Lime Garden	115		
3.	Fruit Cafeteria	129		
4.	Fruit Park	372		
5.	Citrus Garden	310		
6.	Desi ber and Amala	150		
	Total	1351		

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