



# 9. KRISHI VIGYAN KENDRA

## Major Achievements

**Implementation of Technology Demonstration on pulses (Pigeonpea) :** Krishi Vigyan Kendra, CICR, Nagpur has implemented technology demonstration on pigeonpea (BSMR376) during *kharif* and chick pea (Vijay) during *rabi* 2014-15 on 30 acre of land in Hingna and Saoner taluka. With introduction of improved variety of pigeonpea, the yield was increased by 24.5% over variety ICPL87119. In case of chick pea the yield improvement was 33.3% over local check.



**Agronomy :** KVK has conducted OFT on High Density Planting System (HDPS) of variety Suraj in Khapri and Sonegaon village of Kalmeshwar block in collaboration with State agriculture department. Three FLDs on Arhar (BSMR-736), Wheat (AKAW-4627) and Linseed (PKV NL-260) were also conducted in village Umred and Bhiwapur of Nagpur districts. In OFT, cv. Suraj recorded 12.34% higher yield over the Bt check. In FLDs, varieties of Linseed (PKV NL-260), Arhar (BSMR-736), Wheat (AKAW-4627) were superior over local checks by 30.8%, 21.8% and 31.3% respectively.



**Soil Testing :** Soil samples were collected from Umrer, Bhivapur, Katol, Kalmeshwar, Saoner, Ramtek, Narkhed and Kuhi blocks of the Nagpur district through Mobile Soil Testing Van and 540

soil health cards were distributed to the beneficiaries.

**Horticultural Fruit Crops:** KVK has established an orchard in its farm. The objective was to demonstrate the potential variety of fruit crops suitable for Vidarbha region. The Guava (L-49), Pomegranate (Bhagwa), Orange (Nagpur mandarin) and Sweet Orange (Katol Gold) were demonstrated to large number of farmers, extension functionaries, rural youths and other visitors.



## Dairy and Livestock enterprises

- KVK has conducted front line demonstration on 20 cross breed Jersey cows in Wai (Khurd), Kondhasawali, Wai (Buzurg), Metpanjra, Hatla, of Katol tehsil by feeding bypass fat @ 200 g/day/cow in the diet of just calved cows. It was observed that average milk yield increased by 22% and fat content by 15%.



- Concentrated feed was fed @ 150 g/doe/day for 3 months to 20 local goats in Metpanjra, Wai (Bujurg) villages of



Katol taluka. It was observed that there was 27.08% increase in average milk yield, whereas, average preweaned body wt. in kids of 5 months old was increased by 19.20%.

- 100 poultry chicks of Swarnadhara and Giriraj breeds in Navegaon Sadhu, Tirkhura and Karhandla villages of Umred taluka were reared under back yard farming system on farmers field. Average body weight of matured hen was more in Swarnadhara by 37.21% and Giriraj by 30.95%. The survivability rate was at par with local chicken.
- **Azolla production unit at KVK :** Azolla production unit has established at KVK



technology park during the year 2014-15. KVK is producing about 15 kg. Azolla culture from a pond of size 12'x9' every 15 days and established more than 20 Azolla production unit in Nagpur district on farmers' fields. Front line demonstrations on feeding of Azolla @ 1-2 kg to their cattle in replacement of concentrate feed was conducted on 10 farmers' field. By feeding Azolla 19.85% increase in average milk yield of cows, 10% increase in milk fat and 14.28% increase in conception rate was observed.

### Advisory Service/K-MAS

- **Advisory Service provided :** KVK has provided advisory services to the farmer, rural youth and extension workers on agricultural production and protection technology and allied fields through Daily Agrowon, Dr. PDKV, State Agriculture Department, KVK website (weekly weather forecasting) and by personnel guidance, telephonic calls and mobile services. So for 21047 clients in Nagpur district were benefited.
- **Kisan Mobile Advisory Services (K-MAS) :** Through this technology, 636 clients/farmers were registered during 2014-15 and 29 messages were sent to the farmers/rural youth/extension functionaries.

### Cotton harvesting bag

KVK-CICR cotton picking bag is gaining popularity due to its advantage of collecting more and clean cotton.

This has resulted in increase in efficiency of rural women with higher income. KVK- CICR has received an order of 710 cotton harvesting bags from AFPRO, BAIF-MITTRA, DSAO, Nagpur. These bags were distributed as technical input to



the 149 villages covering 9 talukas of Yeotmal and 4 talukas of Nagpur district. KVK has generated revenue of Rs. 1,17,315/- during August 2014 to January 2015 through sale of these bags.

### On Farm Trial on Home Science

**1. Assessment of charcoal briquettes-An alternative:** Assessment of charcoal briquettes cooking fuel was conducted on 20 farm women's field. The traditional coal and bio-briquettes made from cotton stalk was compared in terms of quantity, cost, ash recovered and time required by

each farm women while cooking 250 grams of rice and dal. It was found that food cooked through bio-briquettes is cost effective by 29% as compared to traditional coal and 60% eco-friendly.

## 2. Assessment of protein rich food provided under SABLA for reducing protein calorie mal

**nutrition of adolescent girls :** This trial was conducted at Butibori circle, Nagpur. Ten adolescent girls were selected for each trial. It was found that consumption of protein rich diet along with local practice helps in increasing weight (by 33%) and Hb% (by 35%).

### Training Programme organized

Sr. No.	Training Title	Venue & Date	No. of Participants
1	Protection of Plant Varieties and Farmers' Right Act - 2001	KVK, CICR, Nagpur 26-27 <sup>th</sup> March, 2015	100
2	Goat Rearing	Panchayat Samiti Katol, Katol 27 <sup>th</sup> Jan., .2015	100
3	Integrated courses on 'Bio-diversity of Crops' and 'Rural Goat Production Technology'	KVK, CICR, Nagpur 27-29 <sup>th</sup> Nov. 2014 & 2-4 <sup>th</sup> Dec. 2014.	100
4	Rural goat farming	Seldoh village, Wardha district 22 <sup>nd</sup> May 2014.	30
5	Soil and water management, soil sampling techniques and it's analysis	KVK, CICR, Nagpur 19 to 21 <sup>th</sup> Aug., 2014	72
6	<i>Sheti Din</i>	Khapri village of Kalmeshwar taluka, Dist- Nagpur 02 <sup>nd</sup> Sept., 2014	20

### Training Programmes conducted

One hundred and twenty four short duration (1 to 3 days) *on-campus* and *off-campus* training courses were conducted in different disciplines for practicing farmers, rural youth and extension functionaries. In all 4924 participants including 1435 SC/ST participants were benefited.

### Diagnostic surveys/*Sheti Din* conducted

1. KVK, CICR, Nagpur conducted diagnostic survey at Champa village of Saoner taluka, Dist- Nagpur on 12<sup>th</sup> Sept., 2014 in collaboration with State Govt. Agril. Dept. Personnel. The experts of KVK diagnosed the problems of parawilt on cotton by



visiting farmers field. Thirty farmers were benefited during this programme.

2. Diagnostic field visit was conducted in villages of Chandur Railway taluka of Amravati district on 25.11.2014 alongwith State Agricultural Department personnel. CICR scientists and KVK experts participated in the visit and inspected the HDPS cotton plots (Suraj variety) of 10 different farmers and also explained their queries/complaints.
3. Diagnostic field survey were conducted in villages Ranmangali, Navegaonsadhu and Thana of Bhiwapur and Umred taluka. Experts from CICR and KVK participated in diagnostic survey. The damage caused due to heavy rainfall and general crop conditions were discussed.

### Group discussion/*Kisan Goshti* organized

*Kisan Goshti* through "*Mann Ki Baat*" in collaboration with Doordarshan, Nagpur

One day Kisan Goshti programme was organized in collaboration with Doordarshan Nagpur at Navegaon (Sadhu) village of Umred taluka on 22<sup>nd</sup> March, 2015. During this programme the speech of **Hon'ble Prime Minister (Mann Ki Baat)** were broadcasted among the farmers through radio and based on the issues of different topics of Hon'ble Prime Minister's speech, the feedback and suggestions from farmers were recorded by Doordarshan, Nagpur.

**Group discussion on Horticulture and Livestock production:** A group discussion on high density cultivation of fruits and establishment of poultry and goat units was organized in Tarna and Dhandla villages of Umred and Kuhi taluka on 26<sup>th</sup> June, 2014. The farmers were suggested to

start such units on small scale under scientific guidance. Thirty five farmers attended the programme.

**Kisan Goshti on kharif vegetable cultivation:** Kisan Goshti on kharif vegetable cultivation was organized in Kinhi village of Hingna taluka on 29<sup>th</sup> May, 2014. Thirty farmers attended the programme.

**Shetkarai Charcha**

The experts of KVK, conducted group discussion (*Shetkari Charcha*) with 45 farmers of Kinhadmakadi village of Nagpur district on 24 Sept.,2014. During this *charchasatra*, soil sampling techniques, cotton crop production technology and IPM on soybean were thoroughly discussed with 35 farmers and rural youths.

**Participation in Exhibitions/Meetings/Workshops/Seminar/Symposia**

Sr. No.	Title of Exhibitions/ Meetings/ Workshop/ Seminar/ Symposium	Venue & Date
1	State level Exhibition on eve of "Dhammachakra Pravartan Din"	Deekshabhoomi, Nagpur 2- 4 <sup>th</sup> October, 2014.
2	Exhibition on occasion of ICAR Regional Committee meeting zone VII	IGKV, Raipur 17-18 <sup>th</sup> October, 2014
3	Rashtriya Kisan Mela organized by CCRI, Nagpur	CCRI, Nagpur 30-31 <sup>th</sup> October, 2014
4	Agro-Vision ( National Level Exhibition )	Reshimbagh, Nagpur 4 - 7 <sup>th</sup> December, 2014
5	Agro-Tech-2014' ( State Level Exhibition )	Dr. PDKV, Akola 27-29 December , 2014.
6	102 <sup>nd</sup> Indian Science Congress Exhibition 2015	Mumbai 3-7 <sup>th</sup> January, 2015
7	Agricultural Science Congress (ASC) Expo	NDRI, Karnal 3-6 <sup>th</sup> February, 2015
8	Stakeholders meeting (organized by World Vision India)	BDO's Office, Panchyat Samiti Umred on 1 <sup>st</sup> April, 2014
9	Pre-Kharif Review Meeting for Nagpur district	NBSS & LUP, Nagpur 22 <sup>nd</sup> May, 2014
10	National Conference on Management of Bio-degradable waste & nutritional management	RTMNU, Nagpur on 17 <sup>th</sup> January, 2015
11	Workshop on Annual Action Plan 2014-15	Dr. PDKV, Akola 19 <sup>th</sup> May 2014
12	Convergence Workshop	Kadimbag Nagpur 12 <sup>th</sup> June, 2014

Sr. No.	Title of Exhibitions/ Meetings/ Workshop/ Seminar/ Symposium	Venue & Date
13	Guest lecture on "Advance Techniques of IPM and INM in Bt Cotton"	KVK, Kharpudi, Jalna 05 <sup>th</sup> May, 2014
14	Guest lecture on "HDPS Cotton Production Technology"	Joga, Saoner taluka 23 <sup>rd</sup> May, 2014
15	Guest lecture on HDPS cotton production technology and soil sampling techniques	Khapri Moreshwar village 24 <sup>th</sup> May, 2014
16	Guest lecture on 'Management of Bt. Cotton on drip irrigation' in 'Agro-Sanvad'	APMC, Katol 20 <sup>th</sup> June, 2014.

### Conference paper

- Galkate, U. V. (2014) 'Assessment of production performance of Swarnadhara chicken in Nagpur district' Abstract No.NCM/0 - 02, National Conference on,'Native Chicken Production: Challenges and Opportunities', 4-5<sup>th</sup> Sept, 2014 at TANUVAS, Chennai, p. 102-103

### Popular Article:

- Rokde, S. N. and Galkate, U. V. (2014). '*Krutrim oxytocincha vapar tala* (Avoid use of oxytocin)'. Aadhunik Kisan weekly magazine, Issue 23 (14 to 20<sup>th</sup> August 2014), pp. 18-19 & 25
- Galkate, U. V. and Rokde, S. N. (2015). '*Dudharu pasuon ko khilaye azolla*' (Azolla as a cattle feed), Krushak Jagat Weekly, Issue - March 16-22<sup>th</sup>, 2015, pp. 7
- Mrs. Sunita Chauhan (2014). "पपई पासून तयार करा टुटी-फुटी". Agrowon, dated 16<sup>th</sup> November, 2014 pp.12
- Mrs. Sunita Chauhan "गुलाबापासुन तयार करा गुलकंद". Agrowon, dated 23<sup>rd</sup> December, 2014 pp.14
- Mrs. Sunita Chauhan "*Banwa Swasthawardhak soybean doodh*". Agrowon, dated 30<sup>th</sup> March, 2015 pp.14
- Mrs. Sunita Chauhan "*Soybean pasun banwa tofu soybean*". Agrowon, dated 31<sup>th</sup> March, 2015 pp.14

### Radio Talks

- Dr. U.V. Galkate, SMS (Vet. Sci.) delivered a radio talk in live programme on "Answer to farmers' queries on Livestock" in Marathi by All India Radio, Nagpur on 28.10.2015 at 7.30 pm.
- Dr. S. S. Patil, SMS (Extn.) delivered a radio talk in live programme on "Answer to farmers' questions" in Marathi by All India Radio, Nagpur on 15.03.2015 at 1.30 pm.
- Shri H. B. Kumbhalkar, I/c SMS (Agronomy), delivered a radio talk on "*Gahu lagwadiche sudharit tantradhyan/shipharashi*" in Marathi by All India Radio, Nagpur on 27.10.2014 at 3.00 pm.
- Shri P.B.Deulkar, Farm Manager, delivered a radio talk in live programme on "Answer to farmers' queries on *Hello Annadata-Pashuvishayak Shanka samdhan*" in Marathi by All India Radio, Nagpur on 28.10.2014, 4.11.2014 and 11.11.2014 at 7.30 pm.

### T.V. Show

- Television show on "महिलाचे कष्ट कमी करण्यासाठी कापूस वेचणी बॅग" in Marathi programme कृषि दर्शन telecasted by Nagpur Doordarshan on 12<sup>nd</sup> January, 2015.

### Resource Generation

- KVK has generated Rs. 2,11,755 through sale of cotton harvesting bags, Osmanabadi goats and horticultural produce.