

Trainings

On campus and Off campus training

One twenty eight 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 5963 participants including 1592 SC/ST participants benefitted from the training programs (Table 9.1).

Table 9.1 : Details of training conducted

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	52	1349	961	2362
Rural youths	56	1498	1172	2726
Extension functionaries	12	362	128	502
Sponsored Training	8	261	104	373
Vocational Training	0	0	0	0
Total	128	3470	2365	5963

Sponsored training programme

Eight sponsored training programmes were organized in the field of Crop Production, Horticulture, Plant Protection, Veterinary Science and Home Science for farmers and

extension functionaries, deputed by State Agriculture Department of Maharashtra, ATMA, CIPMC, Nagpur, RCF, MAFSU Nagpur, MCED & ICDS Nagpur, NGOs. In all 821 participants attended these courses.



Cluster Front Line Demonstrations on Oilseed and Pulses

Crop enterprises

Four CFLDs on oilseeds (i.e. Soybean (MAUS-158, Groundnut (TAG-24)) & pulses (i.e. Pigeonpea (BDN-716), Chickpea (PDKV, Kanchan) were conducted in the adopted villages of Nagpur district viz. Bhivgarh, Chirvaha, Khairi & Tambekhani. Several extension activities like field day, field visit of farmers and extension functionaries, group discussion and scientist farmers meet etc. were conducted for effective implementation of technologies. These demonstrations were conducted on 150 farmers field covering 80 ha. area.



Table 9.2: FLD on Plant Protection Integrated management of soybean defoliator

Crop	Variety	No. of farmers	Area	Yield			Check	% increase	Parameters of Demo		Assessment of Check	
				High	Low	Avg.			No. of defoliator /MRL	B:C Ratio	No. of defoliator / MRL	B:C Ratio
Soybean	MAUS-158	13	5.2	22.9	14.9	19.7	15.5	27.10	2.69	3.45	3.7	2.45

Table 9.3: FLD on Plant Protection Integrated management of Chickpea Pod Borer Complex

Crop	Variety	No. of farmers	Area	Yield			Check	% increase	Parameters of Demo		Assessment of Check	
				High	Low	Avg.			No. of defoliator /MRL	B:C Ratio	No. of defoliator / MRL	B:C Ratio
Chickpea	Digvijay	13	5.2	24.9	20.30	22.6	18	25.55	2.61	3.20	3.79	2.6

FLD on Livestock Production -

1) Scientific cultivation of Hybrid Napier variety DHN-10

Hybrid Napier variety DHN-10 was cultivated on 15 farmers field on 3 hectares of area. There was on increase of 7.2% in green fodder yield in demonstration plot (237.98 q/ha) as compared to local check variety CO4 (222.00 q/ha). Plant height, average number of tillers/clump, average number of leaves/tiller was observed as 2.81 m, 36, 7.2 and 2.50 m, 31, 6.8 in demonstration plot and local check, respectively.

On feeding greens, the average milk yield in demo group was observed as 8.54 lit/cow/day over local check i.e. 7.89 lit/cow/day with 8.24% change in parameters.



FLD on Hybrid Napier DHN-10

2) Supplementation of Probiotic to cross bred cows

Under this trial, 20 gm of Probiotic powder was supplemented in the daily diet of 15 crossbred cows of 15 farmers for 90 days. The result revealed that there was 10.77% increase in milk yield with avg. Daily milk yield of 6.58 lit/cow/day and 5.80 lit./cow/day in demonstration and local check, respectively. An increase of 15.38% was also observed in milk fat content in demonstration group (4.5%) over local check (3.9%).



FLD on Probiotic cross bred cows

FLD on Home-Science

FLD Performance of Cole crops in Nutrition Garden through IPM Model with Organic input

Cabbage and cauliflowers cultivated on 15 farm women Nutrition Garden on 1000 sq. ft area. There was of 28% more yield in demonstration plot (121 kg) as compared to local check (65 kg). Average weight of cabbage & cauliflower was observed as 760 g, & 515 g & 580g & 370g in demonstration plot and local check respectively. 90% excellent growth of curd without any infestation was observed due to alternate drenching and foliar application of 30 litre/1000 sq. ft. Jivamrutham, Waste Decomposer, DGA (Milk Jaggary & Egg) at the interval of 15 days for nutrient management and spraying of Azadarachtin & Dashparni during the growth period.



T-3 Cultivation of Cole crops in Nutrition Garden through IPM Model with Organic input

On Farm Trials (OFT)

Horticulture Discipline

OFT-1:- Assessment on Short duration early high yielding variety of marigold

Technology	No. of Farmers	Yield (t/ha)	Net Return(Rs.)	B:C Ratio
T1 – Farmers Practice (Suman)	13	6.7	117770	3.6:1
T2 –Pusa Basanti	13	7.8	167770	6.2:1
T3- Arka Banagara	13	8.9	142770	5.4:1

Result: Production of both variety are higher as compared to local marigold with high price.



Marigold Variety- Pusa Basanti and Arka Banagara

Plant Protection

OFT 1- Integrated management of pink bollworm (*P. gossypiella*) in Bt cotton- Ankur - 3028

Treatment	% of Green Boll damage	% of Larval Boll damage	Average Yield (q/ha)	% increase yield
T1 – Farmers Practice 1 or 2 chemical pesticide sprays comprising of Chlorpyrifos 20 EC 30ml, Triazophos 40 EC 30 ml per 10 lit water	30.2	18.5	18.5	
T2 - Technology Assessed 1. 1st Spray profenophos 50 EC @ 20 ml per 10 lit water at 60 DAS. 2. 2nd Spray Emamectin benzoate 5 SG @ 4.4 g per 10 lit water at 80 DAS 3rd spray Lambda cyhalothrin 5 EC @ 10 ml per 10 lit water at 100 DAS	16.9	11.25	20.8	12.43
T3 - Technology Assessed 1. Installation of Pheromone Traps @2/acre for monitoring at square formation 2. Spray Azadiractin 300 ppm @ 50ml/10 lit at flower initiation 3. 6 to 7 inundative releases of Trichogramma chilonis 60,000 per acre 4. Plucking of rosette flowers. 5. ETL based application of Thiodicarb 75 WP 20 g per 10 lit water at boll formation followed by Deltamethrin 2.8 EC 10 ml per 10 lit water	15.55	9.5	23.00	24.32

OFT 2 : Management of pigeon pea pod borer complex

Treatment	Average podborer larvae/plant	Percent pod damage	Average Yield (q/ha)	% increase yield
T1 – Farmers Practice 3 to 4 chemical pesticide sprays comprising of Quinalphos 25 EC40 ml, Chlorpyrifos +cypermethrin 50 ml , Flubendiamide 20 WG 2 g or Trizoophos+Deltamethrin 50 ml in 15 litres of water.	3.10	10.30	11.95	
T2 - Technology Assessed: 1st spray - Clorantraniliprole 18.5 SC @3 ml per 10 lit water at 50 per cent flowering 2nd spray- Flubendiamide 39.35 SC @2 ml per 10 lit water at pod filling stage.	1.75	4.3	13.10	9.62
T3 - Technology Assessed 1st spray Azadiractin 300 ppm 50 ml /10 lit water 2nd Spray Emamectin Benzoate 5 SG 3 g/10 lit water 15 days after 1st spray . 3rd spray Lamda cyhalothrin 5 EC 10 ml/10 lit water based on ETL	1.5	1.6	14.9	24.69

Veterinary Science

OFT 1 Assessment of performance of new breeds of Chicken – CARI-NIRBHEEK and GIRIRAJA under Back Yard System of rearing in farmer's field

There is a great demand for indigenous/desi chicken and the current production is not able to meet the demand. Hence the trial was conducted on improved breeds of chicken to evaluate their performance which resembles to indigenous/desi chicken.

Total 130 birds (6 weeks) of each improved varieties i.e. CARI-Nirbheek and Giriraja were distributed to 13 farmers of Nagpur

Tahsil. These birds were reared under free range system with minimum inputs.

The study revealed that body weights of local chicken, CARI-Nirbheek and Giriraja birds at 20 weeks of age were 1.150 (TO1), 1.890 (TO2) & 1.82 (TO3) kg, respectively. Giriraja birds showed early sexual maturity at 162 days as compared to CARI-Nirbheek (172 days) and indigenous/desi chicken (186 days). CARI-Nirbheek birds found more active and pungacious than Giriraja. CARI-Nirbheek variety fetched more prices due to its resemblance with fighter Aseel breed. The details of the parameter of evaluation were as follows.

Sr. No.	Parameters	Farmer's Practice (TO1) Local chicken	Technology Option (TO2) CARI-NIRBHEEK	Technology Option (TO3) GIRIRAJA
1	Mean body weight of chicken kg/bird	1.15	1.89	1.81
2	Age at sexual maturity days	186	172	162
3	Gross cost (Rs/bird)	325.00	325.00	325.00
4	Gross return (Rs/bird)	710.00	1050.00	820.00



Major Observation / Feedback : CARI-Nirbheek birds may be recommended for rural back yard poultry system instead of local breed to fetch more income.



OFT on Poultry

OFT 2 Evaluation of fodder hybrid Napier varieties under scientific management in Nagpur district

In order to ensure the supply of quality green fodder to the dairy cows throughout the year, a trial was conducted at Umred Tahsil on 'Evaluation of fodder hybrid Napier varieties under scientific cultivation' during. Two multi-cut perennial varieties of hybrid Napier i.e. Super Napier and BNH-10 were compared with local prevalent variety CO4 on 4.68 ha area on 13 farmer's field. Both

the varieties i.e. Super Napier and BNH-10 showed better performance in terms of green fodder yield, number of tillers, number of leaves and milk yield on feeding of greens than locally grown CO4 variety. As per the feedback of farmer green fodder intake was more in TO2, in which Super Napier was fed to the cows. That might be due to less serration, high succulence and good palatability of Super Napier. The details of the parameter of assessment were as follows.

S. No.	Parameters of Assessment	Farmer's practice (TO1): CO4	Technology option (TO2): Super Napier (Packchong-1)	Technology option (TO3): BNH-10
1	Plant Height (m)	2.42	3.41	2.73
2	No. of tillers/clump	32	46	41
3	No. of leaves/tiller	6.01	7.88	6.23
4	Green fodder yield in 1st cutting (q/ha)	219.70	276.65	252.5
5	Cost(Rs/acre)	49450	49450	49450
6	Average Milk yield of cows on feeding greens (l/day)	6.80	8.55	7.70

Home Science Discipline

OFT-1:- Assessment of different models of Nutrition Garden for small land holders for nutritional sustainability

Technology	Area of garden (meter)	Parameters			Quantity of Vegetables produced in three months	Saving of money per family in three months (Rs.)
		Quantity of vegetables produced (October-December-2021) (kg)				
		GLV	Cucurbitaceous	Other Vegetables		
T1 – Farmers Practice Growing vegetable Tomato, Brinjal, Cow-pea, Bottle Guard	6 mtr	00	16	13	29	580 /family
T2 – Nutrition Garden GLV: Spinach, Methi, Amaranthus, Coriander Other vegetables: Brinjal, Tomato, Cowpea, Okra, Cluster Beans (source: IIHR, Bangalore)	6mtr	33	08	45	86	1390 /family
T3 – Nutrition Garden Sat Din Sat Kyari GLV: Spinach, Methi, Amaranthus, Coriander Other vegetables: Brinjal, Tomato, Cowpea, Cluster Beans Cucurbitaceous: Bottle Guard, Spong Guard, (source: ICAR-IIVR, Varanasi and IIHR, Bangalore)	6mtr	44	30	37	111	1780/family

Result : Area under production of vegetables in Nutrition Garden in all trials is 6meter for four family members. Quantity of Green leafy vegetables (GLV) & cucurbitaceous vegetables & other vegetable produced through improved practice in T3

is 111 kg in Rabi season which is higher and better as compared to T1 (29 kg) & T2 (86 kg). This is by adapting T3 practice of cultivation which saves Rs. 1200/family in three months

Attracting and retaining rural youth in Agriculture (ARYA)

Under ARYA, KVK-CICR, Nagpur is one of the centre operating two enterprises for lively-hood of rural youth. 1) Developments of disease free sampling Nagpur mandarin 2) Fruits and vegetable processing. Project ARYA (Attracting & Retaining Rural Youth in Agriculture) is focusing on creating awareness and capacity building training programmes for youths in rural areas to take up various agriculture, allied and service sector enterprises for sustainable income and gainful employment.

During the year 2022, KVK trained 625 rural youths for production of disease free seedlings of Nagpur mandarin and different self help groups for custard apple processing, its value addition, preparation of pickles, citrus juice, Potato chips ,preparation of Mixed Fruit Jam, Tomato Ketchup and solar drying of vegetables. Additionally, KVK provided technical support to rural youth of Katol block for multiplication of Nagpur mandarin seedlings. 15 rural youth beneficiaries developed



their nursery on Nagpur mandarin and are generating significant income. Sugarcane juicer, citrus juicer, Potato chips machines and Greavy machines are distributed to 6 self help groups as Critical Inputs for establishing processing enterprises. Three units of processing of pickles and two units of sugarcane, one unit of custard apple pulper, solar drying unit of chilli processing 3 chilly processing and 2 potato chips unit, 2 mix fruit jam units and 2 orange juice processing units are

running successfully at Besa, Beltarodi, Chichbhuvan, Gondbori, Wakodi, Bhiwapur, Nagalwadi and Jamtha. 1000 Nursery citrus plants are ready for budding process at KVK, Nagpur and 2000 new slot is in process. Ten rural youths from Ladgoan, Kukadipanjara village, Tahsil Katol also established their disease free nursery of citrus and Nagpur mandarin after acquiring training under ARYA.



Potato Slicer Machine Installation to Samyak SHG, Besa, Nagpur

Mixed fruit Jam Gravy Installation to Abhiruchi SHG, Nagalwadi, Hingna, Nagpur

KVK GKMS ACROSS

Inauguration of Agro Automatic Weather Station

Agro Automatic Weather Station was inaugurated by Dr. C.D. Mayee, Former Chairman, ASRB, New Delhi.

Impact based forecast and advisory for Nagpur district

The impact-based forecast and advisory were prepared and disseminated to the different stalkholder in the district before and after occurrence of adverse weather event through email and social media groups. A total of 17 IBF bulletins were



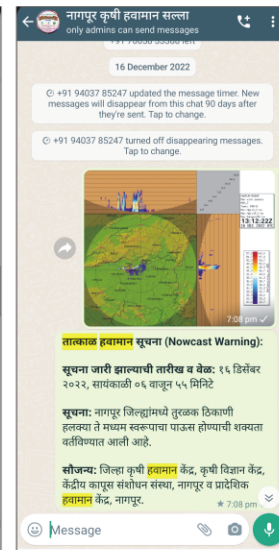
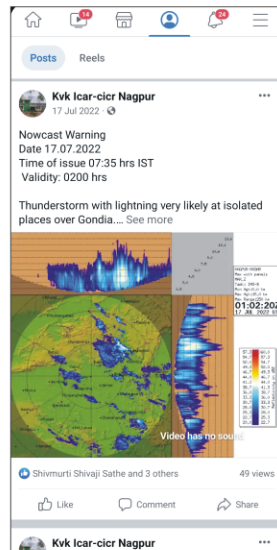
prepared and disseminated to the concern district agriculture department and others stakeholder during 2022.

Nowcast warning-

The nowcast warning and forecast are received from time to time by Regional Meteorological Centre, Nagpur is disseminated to the farmers on priority on their registered mobile number through different social media platform. The nowcast warning includes warning on heavy rainfall, hail, thunderstorm, lightning as well as gusty winds valid for next 3 hours from the nowcast forecast issued.

Date	Warning
24/05/2022	Light to moderate rainfall and thunderstorm with lightning very likely to occur at isolated (one or two) places.
25/05/2022	Light to moderate rainfall and thunderstorm with lightning very likely to occur at isolated (one or two) places.
26/05/2022	Light to moderate rainfall and thunderstorm with lightning very likely to occur at isolated (one or two) places.
27/05/2022	Light to moderate rainfall very likely to occur at isolated (one or two) places.

District	Crop	Stage	Likely impact on crop	Advisory	
Nagpur	Summer paddy	Physiological maturity	Lodging and wetting	<ul style="list-style-type: none"> It is advised to carry the harvesting and threshing operation in matured paddy crop. If threshing is not possible it is advised to cover the harvested produce with plastic sheets. 	
		Mandarin orange, Sweet orange, Acid lime	Fruit development	Fruit dropping & Breaking of branches	<ul style="list-style-type: none"> Considering the wind speed, support the plants with Bamboo stick to avoid fruit dropping.
		Vegetables (Tomato, Brinjal etc.)	Fruit development	Lodging	<ul style="list-style-type: none"> Considering the wind speed, support the plants with Bamboo stick to avoid fruit dropping.



Impact based forecast and advisory bulletins

Farmers Awareness Programme

A total of 8 farmer awareness programme were conducted at KVK and Villages to aware the farmer for use and application of agromet advisory services in the farm management and use of

mobile application like, Meghdoot, Damini, Mausam and Public observation to reduce the risk of adverse weather in the agriculture.



Exposure visit of DAESI participants to Agromet Observatory of ICAR- CICR, Nagpur 30.03.2022



World meteorological day celebrated at KVK and Agromet Observatory on 23.03.2022



Awareness programme on Agromet Advisory Services at RAMETI, Nagpur on 19.03.2022



Awareness programme on Agromet Advisory Services at KVK on 07.02.2022

Dissemination of Agromet Advisory Services

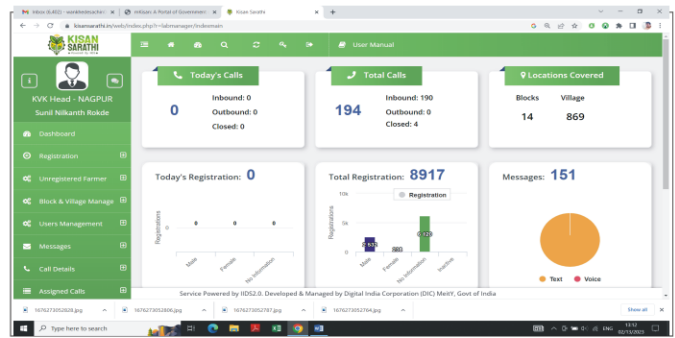
On time Agromet Advisory Services bulletins are currently disseminated to the all block of the district benefitting the farmers, State Agriculture Department, Agricultural Research Station, NGO, SAUs, FPO through different suitable medium.

The following social media platform were created and used for dissemination of Agromet Advisory service.

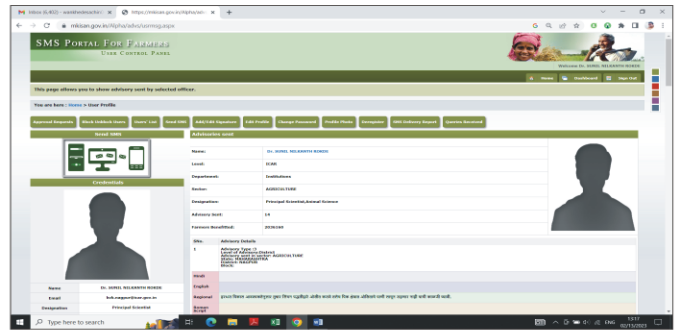
Sr. No.	Social media platform	No. of farmers
1.	Whats app (214 group)	28676
2.	Whats app community group (1)	2325
3.	mKisan portal (1)	169607
4.	Kisan Sarathi portal (1)	8648
5.	Telegram (3)	1899
6.	Facebook (1)	4946
Total		216401



Dissemination of Agromet Advisory Bulletins through facebook and whats app group



mKisan portal
A total of 14 text messages sent to the 203616 farmer through mKisan portal.



Kisan Sarathi portal
A total of 151 text messages sent to the 8917 farmers through Kisan Sarathi portal.

Integrated farming system for doubling farmer's income

Krishi Vigyan Kendra, Nagpur has developed Integrated Cotton based Farming System module in 2021 covering one hectare area. This IFS is having three component T1 Cotton + Soybean, T2 -T1+ Horticulture and T3 all these components and all animal components of Vidarbha region.

In Horticulture Component all seasonal vegetables of Kharif and Rabi crop is grown organically in three forth acre This is planned in such a way that it start yielding after every 25 days that not only full fill family requirement of vegetables but also fetches price too. This vegetable growing area is maintained by Two women labour manually and women friendly tools. Organic waste is also converted into manure using waste Decomposer. Covering cultivable land with Agri residue is key component of IFS. Cow dung, Jivamrut and fruit fermented juice other liquid juices are applied quarterly for micronutrients. Spraying schedule of Dashparni and Azadirachtin is also maintained which result no infestation of any worms, aphid and Jassid .

Sixty four Guava of L-49 variety are planted in June 2021 on mulch in IFS whereas 179 Mango plants of Amrapali was planted in 4th March 2021 in hi-density method.

Till date, nearly 750 Dignitaries, Tribal & Schedule Caste farmers, Farm Women, RAWE students, SHG visited. Skill training on Nursery raising, Seedling transplanting on mulch, Operation of drudgery reduction tools were conducted.

A model of attractive Cole Crops was demonstrated and it is managed with Biological inputs and Bio-pesticides. Vegetable, Mushroom, Eggs, Chicken, Flowers produced in IFS model was sold to CICR Staff by first come first serve basis in Kharif & Rabi season. A low cost, Outdoor, Mobile Oyster Mushroom



Unit is also established in November 2021 for getting vegetable protein source. This unit yielded 11 kg of mushroom in 45 days. Continuous batch of oyster mushroom is planted after every 45 days where Tribal Women farmers were trained in growing Oyster Mushroom. Revenue of Rs. 31765/- was generated from August 2022 to December 2022 This Horticulture Component is designed and maintained by Smt Sunita Chauhan , SMS, KVK, ICAR -CICR, Nagpur

A low cost small model shade for a family Of 2-4 person for care



and maintenance is also established Cotton, Soybean production in IFS as well as low cost poultry, duck rearing was started in IFS. Goat shade and Desi Cow are also established for training purpose and rearing. A Fish Pond having Rohu, Katla, Mrigal were also put for rearing by Dr Nandankar and Dr. U.V. Galkate. SMS, KVK, ICAR-CICR, Nagpur .

This project is dream project of Dr. Y. G. Prasad, Director ICAR-CICR, Nagpur, Dr S. N. Rokade, Head KVK, ICAR-CICR, Nagpur for doubling farmers income.



Workshop cum training Natural Farming

Krishi Vigyan Kendra conducted workshop cum training on Natural farming under Home Science discipline for farmers, farm women, students and Farmers Producing Organization (FPO) on 17 September 2022. In the inaugural address Dr. S. N. Rokde, Principal Scientist & Head KVK, ICAR-CICR, Nagpur emphasized the need for popularization efforts for “Natural Farming” and stressed the role to be played by the farmers

producing organization. In the technical session demonstration on preparation of Biological inputs viz. Jivamrutham, Panchagavya, Saptdhanankur and preparation of Bio-pesticides viz. Dashparni, LAMIT Ark and Botanicals for the use of Natural Farming by Smt. Sunita Chauhan, SMS, Home Science, KVK, ICAR-CICR, Nagpur. 163 farmers 215 students, FPO Nagpur, Saoner, Hingna were benefited during 2022.



Swachhta Pakhawada was observed from December 16 to December 31, 2022

Krishi Vigyan Kendra, ICAR-CICR, Nagpur Conducted Swachhata Pakhwada from 16/12/2022 to 31/12/2022. Under this program various activities related to cleanliness were carried out.

Meetings/ Workshop/Conference/Training attended

Name of the officials	Name of event	Location	Date
Dr. S. N. Rokde	Action Plan Workshop of KVKs	Dr. PDKV, Akola	05.02.2022
Dr. S. N. Rokde	“Oilseeds, Pulses and Bio-fortified Crops	Webinar	28.04.2022
Dr. S. Y. Wankhede	Implementation of Kisan Sarathi	Online	17.05.2022
Dr. S. N. Rokde	National Workshop of KVKs in India	Dr. PUA, Solan, (HP)	1to2.06.2022
Dr. U. V. Galkate	Review meeting of All KVKs of Maharashtra	ICAR-ATARI, Pune	17.06.2022
Dr. S. N. Rokde & All KVK	SAC Meeting of KVK	KVK, Nagpur	22.06.2022
Dr. S. N. Rokde	Attended Meeting	Nagpur	14.07.2022
Dr. S. N. Rokde	National Workshop of KVKs in India	Anand Agriculture University, Gujarat	7to9.07.2022
Dr. S. N. Rokde & Dr. Deepa Lal	ARYA Meeting	Online	25.07.2022
Dr. S. Y. Wankhed e	Operational and banking issues under KVK GKMS ACROSS	Online	02.08.2022
Dr. S. Y. Wankhede	CROPSAP	DDA, Plant protection (Online)	12.08.2022
Dr. S. Y. Wankhede	CROPSAP	DDA, Plant protection (Online)	19.08.2022

Name of the officials	Name of event	Location	Date
Dr. S. N. Rokde & All KVK	SAC Meeting of KVK	KVK, Nagpur	22.06.2022
Dr. S. N. Rokde	Attended Meeting	Nagpur	14.07.2022
Dr. S. N. Rokde	National Workshop of KVKs in India	Anand Agriculture University, Gujarat	7to9.07.2022
Dr. S. N. Rokde & Dr. Deepa Lal	ARYA Meeting	Online	25.07.2022
Dr. S. Y. Wankhede	Operational and banking issues under KVK GKMS ACROSS	Online	02.08.2022
Dr. S. Y. Wankhede	CROPSAP	DDA, Plant protection (Online)	12.08.2022
Dr. S. Y. Wankhede	CROPSAP	DDA, Plant protection (Online)	19.08.2022
Dr. S. N. Wankhede	District Skill Development Executive Meeting	Collector office, Nagpur	05.09.2022
Dr. S. N. Rokde	Attended Meeting	ATMA, Nagpur	20.09.2022
Smt. Sunita Chauhan	Team Meeting of Gender Nutrition Research Project	Online	06.09.2022
Smt. Sunita Chauhan	Zhilla Committee Member for Input distribution under Chief Minister Food Processing Enterprises	SAO Office, Nagpur	27.09.2022
Dr. S. Y. Wankhede	Fund flow under KVK GKMS ACROSS	Online	29.09.2022
Dr. S. Y. Wankhede	Cluster Facilitation Cell Committee Meeting	Collector office, Nagpur	03.10.2022
Dr. S. Y. Wankhede	CROPSAP	DDA, Plant protection (Online)	21.10.2022
Dr. S. Y. Wankhede	CROPSAP	DDA, Plant protection (Online)	04.11.2022
Dr. S. Y. Wankhede	IMD services through CSCs	Online	15.11.2022
Smt. Sunita Chauhan	Revive Meeting of Gender Nutrition Research Project	Online	10.11.2022
Smt. Sunita Chauhan	Revive Meeting of Gender Nutrition Research Project	Online	13.12.2022

Publication/Research Paper

- Avijit Ghosh, S.K. Mahanta, M.C. Manna, Sultan Singh, Ranjan Bhattacharyya, V.C. Tyagi, J.B. Singh, S.N. Ram, R. Srinivasan, A.K. Singh, Ajita Gupta, Prabhu Govindasamy & S.N. Rokde (2022) "Long Term Grazing Mediates Soil Organic Carbon Dynamics by Reorienting Enzyme Activities and Elemental Stoichiometry in Semi-arid Tropical Inceptisol Journal of Soil Science and Plant Nutrition published online.

Published popular articles

- Smt. Sunita Chauhan, Dr. S.N. Rokde (2022) "Nutritional products from Soybean" ICAR Kheti Journal in Poshan Visheshank October 2022 pp 15-17
- Dr. Deepa Lal, Dr. S.N. Rokde & Jayshree Khobragade (2022) "Value added products on Papaya" ICAR Kheti Journal in Poshan Visheshank October 2022 pp 28-29

Awards received

- Smt. Sunita Chauhan, SMS, Home Science, KVK, ICAR-CICR, Nagpur has received best oral paper award for presentation on "Organic Olericulture: An approach for soil health management" at 3rd National Conference on Natural, Organic Farming and Chemical Farming in Agriculture – Present scenario and way forward held during 17-19 October 2022 at KVK, Ujjain (M.P.) conducted by society of Krishi Vigyan.
- Dr. S.N. Rokde, bagged 1st Prize in Hindi Shuddhalekhan Competition, Hindi Essay Competition & English to Hind Translation Competition, 2nd Prize in Photobased Story Competition and 3rd Prize in Self composed Hindi Poem Competition.
- S.Y. Wankhede, SM. Wasnik, SN. Rokade, JH. Meshram, PS. Gayakwad has received Second best paper presentation award for paper entitled "Farmer Feedback on Weather

Based Agromet Advisory Services to Improve Rural Livelihoods - A Way of Making Farmers Self-Reliant in Decision Making in Farm Operations" at National Conference AGRESAR 2022 held at Shri Ramdeobaba College of Engineering & Management, Nagpur during 11th & 12th March, 2022.

Radio Talks (AIR, Nagpur):

- Smt. Sunita Chauhan, SMS (Home Sci.), KVK, ICAR-CICR, Nagpur on "Cottage level Enterprises for Economic Empowerment" which was broadcasted in All India Radio on dated 14.11.2022
- Dr. S. N. Rokde, Principal Scientist & Head KVK, ICAR-CICR, Nagpur on "Answers to the queries of livestock owners" on All India Radio on dated 04.11.2022
- Dr. S. N. Rokde, Principal Scientist & Head KVK, ICAR-CICR, Nagpur on "Management of hens in winter" on All India Radio on dated 28.12.2022
- Dr. U.V. Galkate, SMS, KVK, ICAR-CICR, Nagpur participated in a Phone in Programe in a series Hello Annadata broadcasted by All India Radio on dated 23.08.2022, 30.08.2022 & 06.09.2022 at 7.30 PM.

TV Talks

- Dr. Ulhas Galkate, SMS (Veterinary Science), KVK, ICAR-CICR, Nagpur on "Improved breeds of Poultry for Backyard Poultry Farming" in a Krishi Darshan programme telecasted by DDKs Sahyadri channel on 06.04.2022 at 6:00 PM.
- Dr. S.N. Rokde, Principal Scientist & Head KVK, ICAR-CICR, Nagpur on "Doubling farmers income on Rajwade Television Channel, Nagpur on 04.01.2022
- Dr. S.N. Rokde, Principal Scientist & Head KVK, ICAR-CICR, Nagpur on "Management at Milch Animals" in winter on Doordarshan Kendra, Nagpur on 07.01.2022



- iv. Smt. Sunita Chauhan, SMS (Home Science) KVK, ICAR-CICR, Nagpur on “Nutrition Garden for Nutrition Sustainability” on Doordarshan Kendra, Nagpur on 01.09.2022
- v. Dr. Sachin Wankhede, SMS, Agrometeorology, KVK, CICR, Nagpur Krushi Darshan programme of Doordarshan on the "Hawaman Aadharit Krushi Salla Seva-Shetkaryansathi Wardaan" on dated 16th, March, 2022.



Events conducted by KVK, ICAR-CICR, Nagpur Under Azadi ka Amrut Mahotsav campaign, KVK, ICAR-CICR, Nagpur conducted several programmes to sensitize to the participants including farmers, womens, students and other related stakeholders about the various schemes and relevance of the programme. The programmes or Kisan melas conducted during the year is given in below table:

S.No.	Event/Programme/Kisan Mela	Date	Theme	Participants
1.	National Girl Child Day	24.01.2022	“Empowering girls for a bright future”	
2.	World Pulses Day	10.02.2022	“Atmanirbhar Bharat- Harnessing potential pulses for import substitution”	110
3.	International Women’s Day	08.03.2022	“Gender equality today for a sustainable tomorrow”	100
4.	World Water Day	22.03.2022	“Groundwater, making the invisible visible”	100
5.	Kisan Mela in collaboration with ATMA and Directorate of Cotton Development	26.04.2022	“Kisan ki Bhagidari – Parathmikta hamari Abhiyan “	360
6.	Kisan Mela in collaboration with ICAR-CICR, Nagpur	31.05.2022	“Garib KalyanSammelan”	1200
7.	International Yoga Day	21.06.2022	“Yoga for Humanity”	60
8.	World Soil Day on 5th December, 2022	05.12.2022	Soils : Where Food Begins	101

