

**Krishi Vigyan Kendra  
Central Institute for Cotton Research  
Nagpur**

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**Salient achievements of KVK, CICR, Nagpur**

**On Farm Trials (OFTs)**

The following OFTs implemented in KVK adopted villages of Umred, Hingna tahsil of Nagpur district

**Crop production**

**1. Use of pre and post emergence herbicide in Soybean (*Glycine max L.*)**

Treatments	Farmers Practice (T <sub>1</sub> ) Imazithyper 10.8 SL Assessed Practice (T <sub>2</sub> ) Pre-emergence- Pendimethalin 38.7 CS - 700ml /Acre Assessed Practice (T <sub>3</sub> ) Post Emergence- Imazethapyr 35 % and Imazimox 35 % WG- 40g/acre Assessed Practice (T <sub>4</sub> ) Post Emergence - Quizalofop ethyl 5% EC - 400 ml / Acre
No. of Trials	13 {5.2 (ha)}
Critical Inputs used	Pendimethalin 38.7 CS - 700ml/Acre Imazethapyr 35 % and Imazimox 35 % WG- 40g/acre Quizalofop ethyl 5% EC - 400 ml / Acre

**Results:**

Treatments	Observations recorded				
	Plant height	Weed Control Efficiency	No. of pods/plant	Yield (q/ha)	C : B Ratio
Farmers Practice (T <sub>1</sub> )	59.8	48.2	36.6	9.04	1.39
Assessed Practice (T <sub>2</sub> )	62.3	50.3	41.9	10.18	1.46
Assessed Practice (T <sub>3</sub> )	66.7	65.8	46.8	10.99	1.50
Assessed Practice (T <sub>4</sub> )	61.2	47.3	34.5	8.97	1.31

Application of post emergence herbicide Imazethapyr 35 % and Imazimox 35 % WG- 40g/acre found superior over the application of pre- emergence herbicide- Pendimethalin 38.7 @ CS @ 700ml /acre followed by application of post emergence herbicide Quizalofop ethyl 5% EC - 400 ml / Acre followed by farmers practice i.e. application of post emergence herbicide Imazithyper 10.8 SL @ 40gm/acre.

## Veterinary Science

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

The organized sector of poultry is contributing nearly 70 percent of the total output, whereas, the rest 30 percent is by the unorganized sector, this sector mainly includes desi local birds. There is a great demand for desi chicken by non vegetarians of Nagpur district, but lowered production potential of desi chicken could not meet the demand. Hence the trial was conducted on improved breeds of chicken to evaluate their performance which resembles to desi chicken.

Total 70 birds (10 weeks) of each improved varieties i.e. CARI-Nirbheek and Giriraja were distributed to 14 farmers of KVK adopted villages of Hingna tahsil of Nagpur district. 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 1.100 (TO1), 1.570 (TO2) & 1.690 (TO3) kg, respectively. Giriraja birds showed early sexual maturity at 155.15 – 157.27 days as compared to CARI-Nirbheek and local chicken. CARI-Nirbheek birds found more active and pungacious than Giriraja. Though weight gain is lower than Giriraja, it 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	Average body weight at 20 weeks age (kg)	1.100	1.570	1.690
2	Age at sexual maturity (days)	181.17 -182.25	170.25-172.86	155.15-157.27
3	Survivability (%)	60	80	70
4	Gross cost (Rs/bird)	265	265	265
5	Gross return (Rs/bird)	495	785	760.5
6	Net return (Rs/bird)	230	520	495.5
7	BC ratio	1.87	2.96	2.87

**Major Observation / Feedback :** CARI-Nirbheek birds found more active and pungacious than Giriraja though weight gain was lower than Giriraja, CARI-Nirbheek birds fetched more prices due to its resemblance with fighter Aseel breed.



**New breed of Chicken – CARI-NIRBHEEK under Back Yard System of rearing in farmer's field**

## 2. Evaluation of fodder hybrid napier varieties under scientific management in Nagpur district

Nagpur has a semi arid climate. As the district is occasionally prone to the drought, mitigating the fodder requirement of livestock is always a problem. The availability of quality natural green grasses is very low. The dry roughage and crop residues are the main source of feed and fodder for the livestock in the district. All these factors lead to low productivity of the animals. Therefore, in order to ensure the supply of quality green fodder to the dairy cows throughout the year, a trial was conducted at Ramtek tahsil by KVK Nagpur on 'Evaluation of fodder hybrid Napier varieties under scientific cultivation' during 2019-20.

In this trial, two multi-cut perennial varieties of hybrid Napier i.e. DHN-10 (developed by IGFRI, RRS, Dharwad) and BHN-6 (developed by BAIF, Karnataka) were compared with local prevalent variety CO4 (developed by TNAU, Coimbatore) on 2.69 ha area at 12 farmer's field. Both the varieties i.e. DHN-10 and BHN-6 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. However, green fodder intake was more in TO3, in which BHN-6 was fed to the cows. That might be due to less serration, high succulence and good palatability of BHN-6. The details of the parameter of assessment were as follows.

S. No.	Parameters of Assessment	Farmer's practice (TO1): CO4	Technology option (TO2): DHN-10	Technology option (TO3): BHN-6
1	Green fodder yield in 1st cutting (q/ha)	295.50	312.00	307.48
2	Plant Height (m)	2.20	2.31	2.26
3	No of tillers/clump	28	36	33
4	No. of leaves/tiller	5.67	6.11	5.89
5	Cost of production (Rs/ha)	51700	51700	51700
6	Gross Return (Rs/ha)	103425	109200	107618
7	Net Returns (Rs/ha)	51725	57500	55918
7	B:C Ratio	2.00	2.11	2.08
8	Average Milk yield of cows on feeding greens (l/day)	7.66	7.98	8.02



Hybrid Napier i.e. CO4



Hybrid Napier i.e. DHN-10



Hybrid Napier i.e. BHN-6

## Plant Protection

### 1. OFT 1- Integrated Management of Pink bollworm (*Pectinophora gossypiella*) in Bt cotton

Treatment	Variety	% of Green Boll damage	% of Lath 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	Ankur - 3028	28.44	14.33	14.50	
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	Ankur - 3028	16.66	9.30	17.20	18.62
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	Ankur - 3028	16.05	9.00	17.60	21.37



**Integrated Management of Pink bollworm (*Pectinophora gossypiella*) in Bt cotton**

## 2. OFT 2- Management of pigeon pea pod borer complex

Crop	No. of Farmers	Treatment
Pigeonpea variety BDN-716	13	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
		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
		T3 – Technology Assessed 1st spray Azadirachtin 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



Management of pigeon pea pod borer complex

## Horticulture Discipline

### 1. OFT-1:- Assessment of High Yielding Verities of Marigold

Technology	No. of Farmers	Area (ha)	Yield (Qtl.)	% Increase in Yield	Net Return (Rs.)	% Increase in Net Return
T1 – Farmers Practice (Orange Marigold)	13	0.4	05		17500	
T2 – Refine Practice Kolkata Marigold	13	0.4	06	20%	30000	71%

Result: Kolkata marigold production is more by one quintal and fetches 71% more revenue compared with Orange Marigold.



**High Yield variety Kolkata Marigold**

## Home Science Discipline

### 1. OFT-1:- Assessment of different models of Nutrition garden for small land holders for Nutritional Sustainability.

Technology	Area of garden (meter)	Parameters			Total Weight of Vegetable	Saving of money per month/family
		Quantity of vegetables produced ( October-December- 2020) (kg)				
		GLV	Cucurbataciuous	Other Vegetables		
T1 – Farmers Practice Growing vegetable Tomato, Brinjal, Cow-pea, Bottle Guard	4	01	03	04	8	Rs. 135/month / family
T2 – Nutrition Garden GLV: Spinach, Methi, Amaranthus, Coriander Other vegetables: Brinjal., Tomato, cowpea, Okra, Cluster Beans (source: IIHR, Bangalore)	4	03	00	16	19	Rs. 276/month / family
T3 – Nutrition Garden Sat Din Sat Kyari GLV: Spinach, Methi, Amaranthus, Coriander Other vegetables: Brinjal, Tomato, cowpea, Cluster Beans Cucurbetaciuous : Bottle Guard, Spong Guard. (source: ICAR-IIVR, Varanasi and IIHR, Bangalore)	4	04	04	16	24	Rs. 343/month /family

Result: Area under production of vegetable in Nutrition Garden in all trials is 4 meter for four family members. Quality of Green leafy vegetable (GLV) & Cucurbataciuous vegetables in T3 trial is more resulted 26% higher production as compared to T1 practice and saves Rs. 208/- more as compared to T1 practice.



**Demonstration of Nutrition Garden**

## **Front Line Demonstrations (FLDs)**

### **Livestock Production**

Following technologies in livestock production were implemented on farmer's fields to set the potential yield of the technology in agro-climatic conditions of Nagpur district and to popularize proven technologies in Nagpur district

#### **1. Front Line Demonstrations (Livestock)**

Category	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/Poultry/etc)	Major parameters			% Change in parameter	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Parameter	Demo	Check				
Dairy	Supplementation of probiotic Saccharomyces cervisiae) to pre-rumunan cross bred calves @ 20 g/calf/day X 90 days	10	30 calve	1) Mean Body Weight gain (kg/month)				1170	2968	2.54
				First Month	9.48	9.22	7.93			
				Second Month	14.34	13.00				
				Third Month	17.15	15.89				
				2) Incidence of Scours (%)	6.66	13.33	-			
				3) Starter / Feed Intake (g/ day)	409.72	369.95	10.75			

#### **Major observation/Feedback:-**

The body weight gain and feed / milk intake in calves fed with Probiotic increased by 7.93% and 10.75% than local checks, respectively, whereas incidence of diarrhoea was very less in demo group.



**Feeding of Probiotic**

## 2. Front Line Demonstrations (Livestock)

Category	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ etc)	Major parameters			% Change in parameter	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Parameter	Demo	Check				
Dairy	Feeding of area specific mineral mixture to lactating cows of Nagpur district @ 50 g/day/cow	10	30 cows	1) Average milk yield (l / cow / day)	7.85	7.45	7.93	660	2635	3.99
				2) Fat content in milk (%)	4.5	4.2	7.14			
				3) Inter calving period (days)	355	393	38 days			
				4) Onset of oestrus after parturition (days)	90-105	105-120	-			
				5) No. of cows conceived	29	29	-			
				6) Incidence of Metabolic diseases diagnosed	0 cases	4 cases	-			
				7) Net Return (profit) in Rs/ cow/lactation	24770	22135	-			

### Major observation/Feedback:-

There was slight increase in milk yield and fat percentage in demo group, whereas reproductive performance of cows fed with ASMM enhanced significantly.



Cows feeding with ASMM

### 3. Front Line Demonstrations (Livestock)

Treatments: - T1: Grazing for 6-8 hrs (Local Check)

T2: T1 + Mineral Lick Block (Free Access)

Category	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/Poultry/etc)	Major parameters			% Change in parameter
				Parameter	Demo	Check	
Dairy	Supplementation of mineral lick block to the local goats	10	40 goats	1)			
				A. Initial Average body wt. (kg)	19.2000	19.250	-
				B. Weight Gain (kg/month)	2.250	1.750	17.14
				2) Milk Yield (kg/day/doe)	0.570	0.490	16.33
				3) No. Of does conceived	20	19	-
				4)			
				A. Total cost of production (Rs/goat/year)	885	820	-
				B. Gross Return (Rs/goat/year)	2100	1705	-
				C. Net Return (Rs/goat/year)	1215	885	-
				5) BC Ratio	2.37	2.08	-



Mineral Lick Block for Goats

#### 4. Front Line Demonstrations (Livestock)

Treatments: - T1: CO4

T2: RBN-13

Category	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/Poultry/etc)	Major parameters			% Change in parameter
				Parameter	Demo	Check	
Dairy	Scientific cultivation of Fodder hybrid napier RBN-13 (Phule Jaywant) variety	10	20 cows (4.0 ha)	1) Plant Height (m)	2.15	2.15	-
				2) Average no. Tillers / clump	31	30	3.33
				3) Average no. Of leaves / Tiller	6.9	6.8	1.47
				4) Green fodder yield in first cutting (t/ha)	35.20	35.15	0.14
				5) Cost (Rs./acre)	54000	54000	-
				6) Gross Return (Rs.)	112640	112480	-
				7) BC Ratio			-
				8) Average milk yield on feeding greens to cow (l/day)	7.51	7.50	0.13



**Hybrid napier RBN-13 (Phule Jaywant) variety**

## Plant Protection

### 1. Front Line Demonstrations (FLDs) on Plant Protection

Crop	Name of the technology demonstrated	Variety	No. of farmers	Area	Yield			Check	% increase	Parameters of Demo		Assessment of Check	
					High	Low	Avg.			No. of defoliat or /MRL	B:C Ratio	No. of defoliator / MRL	B:C Ratio
Soybean	Integrated Management of Soybean defoliator	MAUS-158	13	5.2	16.50	11.30	13.80	10.60	30.18	2.33	1:267	3.67	1:167
Chickpea	Integrated Management of Chickpea	Digvijay	13	5.2	-	-	-	-	-	-	-	-	-



**Integrated Management of Soybean**



**Integrated Management of Chickpea**

## Home Science Enterprises

### 1. FLD-1:- Performance of Solar Conduction Dryer for Vegetable dehydration.

Fruits & Vegetable	Time required for Drying (kg/minute)	Colour and Appearance of Dried Vegetable	Weight of produce after moisture drying (%)
Methi	30	Excellent	14
Spinach	55	Excellent	18
Bitter Guard	87	Excellent	21

**Result:** - Colour and Appearance of Methi, spinach and bitter Guard is observed excellent. Drying time of Vegetable vary as per the moisture of vegetable.



**Demonstration of Solar Conduction Dryer for Vegetable dehydration**

## 2. FLD-2:- Performance of soymittens in harvesting soybean crop.

Treatment	Area Covered m <sup>2</sup> /h	% increase in Area Covered	% increase in $\Delta$ HR
T1 – Farmers Practice	103	00	38
T2 - Refined Practice Use of Soymittens- Parbhani	116	12	32
T3 – Refined Practice Use of multipurpose soymitten - Dharwad	121	17	30

**Result:** Area covered by multipurpose soymitten of Dharwad while soybean harvesting was 17 % higher with only 30% increase in  $\Delta$ HR as compared to farmers practice.



**Harvesting of Soybean using**

## Cluster Front Line Demonstrations on Oilseed and Pulses

### **Crop enterprises**

Three CFLDs on oilseeds (i.e. Soybean (MAUS-158) & pulses (i.e. Pigeonpea (BDN-716), Chickpea (Rajvijay-203) were conducted in the adopted villages of Nagpur district viz. Chargaon, Muradpur, Hiwra, Surabardi, Ambazari and Saleghat. 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 60 ha. area.



**CFLD on Soybean**



**CFLD on Redgram**

## Online/Offline Farmers Trainings

The Online Farmers Training Series was organized by Krishi Vigyan Kendra, ICAR-CICR, Nagpur from 10<sup>th</sup> to 14<sup>th</sup> August, 2020 through the Google meet Mobile Application, at ICAR-Central Institute for Cotton Research, Nagpur due to current Covid-19 pandemic situation. The scientific information on crops like Cotton, Soybean, Santra, Tur, Animal Husbandry, Vegetables etc. was provided to farmers on-line by various scientists of CICR, CCRI, KVK CICR officials,



College of Agriculture, etc. ,More than 700 farmers attended the online farmers training series from different district during the period and Members of State Agricultural departments, Farmers of Nagpur, Wardha, Nandurbar, Yawatmal, Washim, Buldhana, Akola, Amaravati, Beed, Aurangabad, Bhandara, Bilaspur, Buldhana, Chandrapur, Hingoli, Gadachiroli, Gondia, Guntur, Jalgaon, Jalna, Latur, Nashik, Osmanabad, Ratnagiri, Satara, Sangali, Solapur, Dhule etc. district, Agricultural student and KVK's staff attended online farmers training series. Also on line & off line training programmes were arranged from time to time. Overall, KVK organized 46 online/offline training on various topics in different disciplines for Practicing Farmers, Rural Youth and Extension Functionaries which was participants & . benefited.by 1326 clients as under

Sr. No.	Title of Training Programme / Webinar	Date	No. of topics	Total Participants	Participants from region
1	Online Farmers Training Series Programme	10 to 14.08.2020	12	442	Farmers from Vidharbha region and Nandurbar, Buldhana, Beed, Aurangabad, Bilaspur, Buldhana, Hingoli, Guntur, Jalgaon, Jalna, Latur, Nashik, Osmanabad, Ratnagiri, Satara, Sangali, Solapur, Dhule.
2	Online Interaction Meet on Emerging Problems in Cotton	01.12.2020	6	297	KVK-Yavatmal, Jalna-I, Nandurbar and farmers from Vidharbha region.
3	Capacity Development of Anganwadi workers & Farm women on Poshan	17.09.2020	10	223	Anganwadi workers & Farm women from Nagpur district
4	Farmers Awareness Programme under KVK (GKMS) Gramin Krishi Mausam Seva- Atmosphere & Climate Research Modeling observing system and service.	05.03.2020, 27.06.2020, 14.09.2020, 30.09.2020, 17.10.2020	12	170	Farmers from Nagpur district region.
5	Online Farmers Interaction programme for Awareness of Farmer Bill- 2020	28.10.2020	3	108	Farmers from Vidharbha region.
6	Awareness Programme on New Farmers Bill under DAESI Programme	04.11.2020	3	86	Farmers from Vidharbha region.
	<b>Total</b>		<b>46</b>	<b>1326</b>	

## Training & Exposure visits for Students of RAWE (Rural Awareness Work Experience)

During the year 2020, several batches of the students from the State Maharashtra and Madhya Pradesh visited KVK & they were provided training and the exposure at KVK, ICAR-CICR, Nagpur. The Rural Agriculture Work Experience programme (RAWE) attended by students at the nearest village of their home town and research station and KVK's in the context of Covid-19 pandemics situation provided exposures at KVK to RAWE students as requested by various colleges. Around a total of 121 students from different State Agricultural Universities from Maharashtra and Madhya Pradesh participated in exposure tour under RAWE programme. During the exposure programme various activities viz., Visit to soil testing lab and awareness on instruments, Practical soil analysis for organic carbon, Visit to citrus nursery and production of seedling, Visit to Agro Meteorological observatory and information on different instruments etc and different extension, KVK and research activities were shared with the students. The lists of various colleges sponsored students are as follows.

S.N.	College Name	University Name	No. student's	No. Days
1	Anand Niketan College Of Agriculture Anadwan, Warora	Dr. PDKV, Akola	4	1
2	College of Agriculture , Ambajogai	VNMKV, Parbhani	1	1
3	College of Agriculture , Konghara, Yawatmal	Dr. PDKV, Akola	6	1
4	College of Agriculture , Nagpur	Dr. PDKV, Akola	12	1
5	College of Agriculture Kanchanwadi Aurangabad	VNMKV, Parbhani	1	1
6	College of Agriculture Naigaon Nanded	VNMKV, Parbhani	2	7
7	College of Agriculture Tal-Dapoli , Dist Ratnagiri	Dr. BSKKV, Dapoli	3	1
8	College of Agriculture, Dharwha	Dr. PDKV, Akola	3	1
9	College of Agriculture, Risod	Dr. PDKV, Akola	3	7
10	Dadasaheb Patil College Of Agriculture, Aurangabad	VNMKV, Parbhani	2	1
11	Dr. RAJENDRA GODE COLLEGE OF AGRICULTURE, BULDHANA	Dr. PDKV, Akola	1	1
12	G.H Raison College of Agriculture Saikheda Mp	G.H Raison	26	1
13	Jaywantrao Bhosale College of Agriculture, Satara	MPKV, Rahuri	1	7
15	Kewalramji Harde College of Agriculture, Chamorshi	Dr. PDKV, Akola	2	7
16	Manoharbai Patel College of Agriculture, Hiratola Tah- Goregoan, Dist- Gondia	Dr. PDKV, Akola	17	1
17	Marotrao Wadafale College of Agriculture , Yawatmal	Dr. PDKV, Akola	6	1
18	P.R.Pote Patil College of Agriculture, Amravati	Dr. PDKV, Akola	4	1
19	Ramkrishna Bajaj College of Agriculture Pipri Wardha	Dr. PDKV, Akola	7	7
20	Shree Shivaji College of Agriculture, Ambaravti	Dr. PDKV, Akola	6	3
21	Shri Sant Shankar Maharaj College of Agriculture Pimpalkhuta, Amravati	Dr. PDKV, Akola	12	1
22	Shri Sewakbhai Waghaye Patil College of Agriculture Kesalwada Wagh, Bhandara	Dr. PDKV, Akola	2	1
	Total		121	



## Training cum Input distribution Programme under Paramparagat Krishi Vikas Yojana (PKVY) project

KVK, ICAR-CICR, Nagpur organize one day training Programme on “Model Organic Farming” on 11<sup>th</sup> September, 2020 under Paramparagat Vikas Yojana. About 20 farmers of Chargaon and Muradpur villages participated in this training programme. In this training stress was given on Natural Resources based Integrated and Climate Resilient Sustainable Farming System. That ensure maintenance and increase of Soil Fertility, Natural Resource Conservation, On Farm Recycling and minimizing dependence of farmers on external inputs.



## **Awareness programme on New Farm Laws-2020 at villages**

KVK, ICAR-CICR, Nagpur organizes awareness programmes on Farm Laws- 2020 on 19.10.2020 at village –Bhagimahari, Taluka- Parshivani and. also at village –Muradpur, Taluka- Umred on 22.10.2020. Both the programmes were Chaired by Padamshri Dr. Vikas Mahatme, Hon. Member of Parliament (Rajya Sabha). . At Bhagimahari apart from Dr Mahatme, others attended programme includes Dr. S. M. Wasnik, Head KVK, ICAR-CICR, Nagpur,, Dr. S. S. Patil, SMS and Sh Raut Sarapnch (village –Bhagimahari), CEO MECL, BDO, Extension Officer,and large number of farmers , were present. At Muradpur also Hon MP and Sh Girish Vyas, MLC, Maharashtra, Sh. Sudhir Parwe Ex-MLA Umred, Smt Mendule Ex PS Member, and NGO working in the area were also present. Dr. Vikas Mahatme in his address stated that the Government of India introduced three farms laws recently, those were got approval from Hon President of Indian Sh. Ramnath Kovind on 27<sup>th</sup> September 2020. He said these farm laws give the freedom of choice of sale and purchase of farmers produces at remunerative prices. The farm laws introduced due to the inefficient agriculture produce market committees (APMC), lack of many basic facilities and also charged huge fees and levies. Dr. S. M. Wasnik, Principal Scientist (Agri. Extension) & Head KVK, ICAR-CICR, Nagpur also shared the benefits of new farm laws as these laws provide platform to the farmers to sell their farm produces on online trading also. Dr. S.S Patil SMS, KVK, ICAR-CICR, stated that these new laws provide “One Nation, One Market” and farmers need to avail benefits.



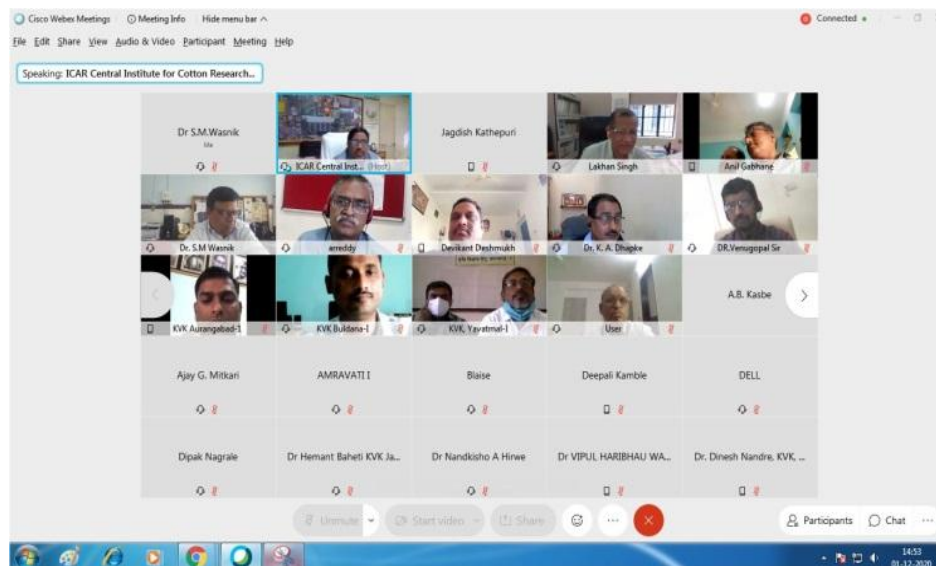
**Awareness programme on New Farm Laws-2020 at village Bhagimahari dated 19.10.2020**



**Dr. Vikas Mahatme, Member of Parliament addressing the farmers at Muradpur on 22.10.2020**

## Online Interaction Meet on Emerging Problems in Cotton for KVK's of Maharashtra

Krishi Vigyan Kendra, ICAR-CICR, Nagpur and ICAR-ATARI, Pune organized Online Interaction Meet on Emerging Problems in Cotton on dated 01<sup>st</sup> December, 2020 through the online Webex meeting platform. In this meet Dr. Lakhan Singh, Director, ICAR-ATARI, Pune, Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur, Dr. S. M. Wasnik, Principal Scientist, Extension & Head KVK, ICAR-CICR, Nagpur, Dr. Blaise Desouza, Head, Crop Production, Dr. Nandini Gokate, Head, Crop Protection, Dr. A R Reddy, Principal Scientist, Agricultural Economics, Dr. Vishlesh Nagrare, Principle Scientist, Agricultural Entomology, Dr. Jayant Meshram, Principle Scientist, Plant Physiology, Dr. Dipak Nagrale, Scientist, Plant Pathology, Dr. Ramakrishna G. I. Scientist, Agronomy participated. During the meeting issues related to yields gaps in cotton in Maharashtra compared to National Average Yield and also with demonstration fields, developing the concrete action plan for next session in consultation with the experts of ICAR-CICR, technologies available with the CICR for inclusion with On-Farm Trials (OFT's) and Cotton Front Line Demonstrations (FLD's) by the KVKs, emerging different diseases in cotton, its symptoms and integrated management practices, Management of different pests on cotton especially in context of Pink Bollworm, soil health & nutrient management, square dropping problems and canopy management practices in cotton through the different plant growth regulators were discussed. At the end question and answer session was held and there were fruitful interactions between KVK officials of Maharashtra and participating scientists.



**Online Interaction Meet organized at Krishi Vigyan Kendra, ICAR-CICR  
CCCICRCCICR, Nagpur.**

## **Live web casting of Hon'ble Prime Minister of India addressing the Farmers and releasing PM Kisan money to famers**

KVK, ICAR-CICR, Nagpur organized Live web casting of Hon'ble Prime Minister of India addressing the Farmers and releasing PM Kisan money to famers on 25th December 2020 under PM Kisan Samman Nidhi Scheme. Under this scheme, the 7th installment is credited into farmers account. On the occasion Rs 18,000 cr credited into the accounts of 9 cr farmers. For this programme overall 867 farmers registered through online and 50 farmers attended the programme at KVK, ICAR-CICR, Nagpur.



**Hon'ble Prime Minister of India addressing the farmers**

## **Attracting and Retaining Rural Youth in Agriculture (ARYA)**

The Attracting and Retaining Rural Youths in Agriculture (ARYA) project was initiated in the year 2015-16. 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 2020-2021, the KVK trained 275 rural youths for production of disease free seedlings of Nagpur mandarin, 325 rural youth of different self help groups for custard apple processing, its value addition, and preparation of pickles, citrus juice 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. 5 Green shade net houses are in process to be built up at rural youth farmers for developing diseases free citrus nursery. Three units of processing of pickles are running successfully at Besa, Beltarodi & Chich bhuvan. 5 chilly processing and 5 orange juice processing units are under process. 2000 Nursery citrus plants are ready for budding process at KVK, Nagpur and 5000 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.



**Distribution of Critical inputs to the SHG groups under ARYA**



**Visit to Citrus Farmers for Developing Citrus Nursery under ARYA**

## **Custard apple and Sweet lime processing Training to Self Help Groups**

Under ARYA project Training programme on Custard apple and Sweet lime processing for 35 women of six Self Help Groups of Nildoh Pannase, Mangrulpir and Meta Umri of Hingna tahasil, District Nagpur held at Krishi Vigyan Kendra, ICAR-CICR, Nagpur on dated 04<sup>th</sup> Nov 2020. Dr. Y.G. Prasad, Director ICAR- CICR, Nagpur, Chaired the programme while Dr. Siddharth M. Wasnik, Principal Scientist, (Agri. Extn.), ICAR-CICR, Nagpur and Head KVK, Smt. Sunita Chauhan, SMS (Home science) Shri. Anil Gayakwad, Project manager, Shri. Paras Gayakwad, Agri Assistant and Jyotsana Shende, Field Coordinator of CARD was also present.

Dr. Y.G. Prasad, Director ICAR- CICR, Nagpur, focused on establishing micro enterprises related to agriculture and providing technical guidance and support to upcoming rural youth as well as economic empowerment. Also on the occasion, Leaflets on ‘FAL PRAKRIYA EK UDYOG’ and ‘VALUE ADDITION ON CUSTARD APPLE’ was released at the hands of Dr. Y.G. Prasad and distributed to SHG participants. Earlier, Dr. Siddharth M. Wasnik, Principal Scientist, (Agri. Extn.), ICAR-CICR, Nagpur and Head KVK briefed about ongoing activities under ARYA project and strengthening of Rural youth through Agri entrepreneurship. Smt. Sunita Chauhan, SMS, KVK, ICAR, CICR- Nagpur provided technical and skill oriented training on Custard apple and Sweet lime processing to strengthen them economically.



**Dissemination of IRM Strategies for Pink Bollworm in Cotton in Nagpur district**

KVK, ICAR-CICR, Nagpur implemented “IRM-Dissemination of Pink Bollworm Management Strategies” project Under Centrally sponsored NFSM: Commercial Crops in Nagpur district. Five villages near Bela viz. (Chargaon , Surabardi, Khapri, Muradpur and Nishanghat ) in Umred tehsil have been identified field day, field visit of farmers, distribution of critical inputs(Pheromone traps, Neem oil, Flonicamid, Chlorpyriphos, Trichocards), awareness campaign and extension functionaries, group discussion, scientist farmers meet etc were conducted for effective implementation of technologies for management of Pink bollworm in cotton.



**Visit to adopted farmers under IRM-PBW project for management strategies recommended by ICAR- CICR Nagpur and Pink bollworm as well as sucking pest on cotton**

## **Gramin Krishi Mausam Seva(GKMS) - Atmosphere & Climate Research Modelling observing system and service (ACROSS)**

A District Agromet Unit (DAMU) started under the sponsored project “KVK (GKMS) Gramin Krishi Mausam Seva- Atmosphere & Climate Research Modelling observing system and service (ACROSS)” has started at KVK, ICAR, CICR-Nagpur in collaboration between India Meteorological Department and ICAR for issuing the district as well as block level weather based agromet-advisories for cultivated crops which will benefit the farming community, poultry, fishery and dairy stalk holder of Nagpur district. The weather forecasting for next five days for rainfall, maximum and minimum temperature, morning and afternoon relative humidity, wind speed, wind direction and cloud cover amount is included the biweekly weather based agromet advisory prepared and disseminated by the District Agromet Unit (DAMU), Nagpur.

The biweekly Agromet Advisory Bulletins were prepared with consultation with the committee members of the District Agro Advisory Committee. District Agromet Unit at KVK, ICAR-CICR, Nagpur prepared District as well as Block wise weather based Agromet Advisory Bulletins for Bhivapur, Hingana, Kalameshwar, Kamathee, Katol, Kuhu, Mauda, Nagpur rural, Narkhed, Parseoni, Ramtek, Saoner and Umred blocks on every Tuesday and Friday of every in English and regional Marathi language. The prepared AAS bulletins were disseminated to the Farmers, Extension worker, Agriculture input dealers, State Agriculture Department officials and staff through the Whats App group prepared for each block of the Nagpur district, Facebook account and page and Emails. The crops includes are in weather based Agro Advisory Services Bulletins Chilli, Cotton, Groundnut, Soybean, Sesame, Castor, Linseed, Mustard, Sorghum, Paddy, Maize, Wheat, Green gram, Black gram, Pigeon pea, Citrus, Acid lime, Sweet orange, Mango, Okra, Brinjal, Tomato, Cabbage, Cauliflower, Watermelon etc. There are 76 Whats app group created for dissemination of Agromet Advisory Services Bulletins across the district and the blocks. There are total 7358 famers were present in different district as well as block level Whats App group created under the District Agromet Unit at KVK, ICAR-CICR, Nagpur and approx. 2000 farmers for five days rainfall forecast provided by RMC, Nagpur.

### **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 Whats App. The Nowcast warning includes warning on thunderstorm, lightning as well as heavy rainfall valid for next 3 hours from the Nowcast forecast warning issued.

### **Status of Agro Advisory Services Bulletins and feedback**

<b>Name of block</b>	<b>No. of Bulletins prepared during 1<sup>st</sup> January to 31<sup>st</sup> December, 2020</b>	<b>No. of Feedback taken during 2020</b>
Nagpur district	104	2
Bhivapur	104	2
Hingna	104	2
Kalameshwar	104	2
Kamathee	104	2
Katol	104	2
Kuhu	104	2
Mauda	104	2
Nagpur (Gramin)	104	2
Narkhed	104	2
Parseoni	104	2
Ramtek	104	2
Saoner	104	2
Umred	104	2
<b>Total</b>	<b>1456</b>	<b>28</b>





**The farmer's awareness programme at. Post. Girola, Tq. Hingana, Dist. Nagpur**



**The farmer's awareness programme at. Post. Khairi Pannase, Tq. Hingana, Dist. Nagpur**



**The farmer's awareness programme at. Lakhmapur, Tq. Hingana, Dist. Nagpur**



**The field visit for observation of crop health status/pest and diseases on cotton at Mangrool Tq. Hingana Dist. Nagpur**

### **Site selection for installation of Agro Automatic Weather Station**

The site selection for installation of Agro Automatic Weather Station at KVK, ICAR-CICR, Nagpur campus had done in presence of, Dr. Vijay N. Waghmare, Ex. Director (Acting), ICAR-Central Institute for Cotton Research, Nagpur, Dr. Siddharth M. Wasnik, Principal Scientist & Head, Krishi Vigyan Kendra, Nagpur, Dr. P. B. Deulkar, Farm manager, Dr. Sachin Wankhede, Subject Matter Specialist- Agrometeorology, Mr. Prashant Gayakwad, Agromet observer, KVK, ICAR-CICR, Nagpur and inspection team from Regional Meteorological Centre, Nagpur, Mr. P. S. Chinchole (Meteorologist -A), Mr. Yashwant Lokhande (Meteorologist-B), Mr. A. G. Tirodkar ( Meteorologist-A), Mr. R. G. Patki (Meteorologist-A) was present during the process of site selection for installation of Automatic Weather Station, date 02, July, 2020.



**Site selection for installation of Agro Automatic Weather Station**

## Diploma course for input dealers (DAESI) at KVK, ICAR-CICR

Diploma Course in Agriculture Extension Services for Input Dealers (DAESI) was sanctioned to KVK ICAR-Central Institute for Cotton Research (CICR), Nagpur during January 2020. The programme was sponsored by MANAGE, Hyderabad and supported by VANAMATI & ATMA, Nagpur. Sh Rameshwar Nema Ex- State Agril Dept official was appointed as Facilitator and started DAESI programme from February 2020. The programme was inaugurated at Krishi Vigyan Kendra, ICAR-Central Institute for Cotton Research (CICR), Nagpur on 20<sup>th</sup> February 2020. Dr. V.N. Waghmare, Director, ICAR-CICR, Dr. S.M. Wasnik, Principal Scientist/Head KVK & Nodal Officer DAESI programme and Dr. Nalini Bhoyar, Project Director, ATMA, Nagpur attended the inaugural function.. It was highlighted about importance of the programme and its direct relevance to villagers and since the input dealers are to be trained as extension workers they have to work for the benefit of the farmers since Input dealers is the main source of transferring agriculture information to the farmers at village level. During the period four sessions were held and it was discontinued due to corona pandemic situation as instructed by VANAMATI/ATMA/MANAGE



Inauguration of DEASI programme at KVK, ICAR-CICR, Nagpur

## 25<sup>th</sup> Scientific Advisory Committee Meeting - On-line

25<sup>th</sup> Scientific Advisory Committee Meeting (SAC) of Krishi Vigyan Kendra, ICAR-CICR, Nagpur was held on 10/06/2020 at its campus at Central Institute for Cotton Research, Nagpur. Members of line departments, Project Director ATMA, State and District Animal Husbandry Department, District Soil Testing Officer, RBI, NABARD, Associate Dean College of Agriculture-Nagpur, MAFSU, Prof. LAD College, Nagpur, All India Radio -Nagpur, ATARI, Pune and Innovative farmers of Nagpur district attended the meeting online.

Dr. Vijay N. Waghmare, Director, ICAR-CICR, Nagpur Chaired the meeting. While addressing the meeting, Dr. Vijay N. Waghmare appreciated the work of KVK, Nagpur for conducting outreach activities extensively along with Scientists of ICAR-CICR, Nagpur and suggested to take up seed productions of Various



crops and organize training on seed production at KVK, ICAR-CICR, Nagpur field. He further stressed on creating awareness regarding “Mera Mobile Mera Marketing” and “Per Drop More Crop” as suggested by Sh. Sanjay Chepurkar (RBI).

Earlier, Dr. Siddarth. M. Wasnik, Principal Scientist, Extension and Head, KVK and Member Secretary SAC, KVK, ICAR-CICR presented achievements of KVK, ICAR-CICR, Nagpur. He also shared ICAR-CICR activities like e-Kapas, Cotton App, MGMG, IRM, ARYA, DAMU, SCSP, TSP, DAESI implemented in Nagpur District during the year 2019-20. Annual Action Plan for 2020-21 was also discussed and suggestions from various Department officials joined on-line was recorded and will be incorporated for implementing the action plan of 2020-21.

Dr. Panchabhai, Associate Dean, College of Agriculture, Nagpur, Dr. Pradnya Godghate from JDA-Nagpur, Dr. Nalini Bhoyar, Project Director ATMA, Smt. Maithili Kowe, NABARD, Nagpur, Sh. Rathod, District Manager, MAHABEEJ, Nagpur, Sh. Sanjay Chepurkar, RBI, Nagpur, Dr. Manjusha Pundalik, DDCAH, Nagpur, Dr. Arvind Thakre, DAHO, Nagpur, Dr. Kalpna Jadhav, PGD Home Science, RTMNU, Nagpur, T.K. Patil- District Soil Testing Officer, Dr. Ankush Kamble, ATARI, Pune, Dr. Blaise D., Head of Department, Crop Production and Dr. Nandini Gogte, Head of Department, Crop Protection, ICAR-CICR and other line department officials and SAC farmer members also attended and took keen interest in deliberations.

## Rashtriya “POSHAN MAAH”



**Dr. V. N. Waghmare, Director, ICAR-CICR Inaugurated On- Line Inauguration function of month long Poshan Maah.**

Third Rashtriya Poshan Maah (National Nutrition Month) was celebrated countrywide from September 1-30, 2020. Krishi Vigyan Kendra, ICAR-CICR, Nagpur also celebrated Poshan Maah from 9<sup>th</sup> to 30<sup>th</sup> September, 2020 in Collaborations with Women & Child Development dept, Zilla Parishad, Nagpur. This programme was inaugurated on-line by the hands of Dr. V.N. Waghmare, Director, ICAR-CICR, Nagpur. In his address, he highlighted

the nutritional need of deficiency and Malnutrition of all ages. He stressed the need of consumption of locally available crops for balance diet and awareness about Biofortified crops in daily diet for getting higher amount of micronutrients.

Earlier, Dr. S. M. Wasnik, Principal Scientist, Extension & Head KVK in his introductory remarks briefed about the Month- long Poshan Maah programmes to be carried through KVK Nagpur with active cooperation from Anganwadi workers and ICDS department, Nagpur for improving the nutrition and health status of children's, pregnant and lactating mothers and adolescent girls. On this occasion 174 Anganwadi workers and supervisors of ICDS, Nagpur Rural has attended online training cum awareness programme. During Inauguration day in technical session different models of Nutrition Garden and its layout and management was explained by Smt. Sunita Chauhan.

KVK, ICAR-CICR, Nagpur as well distributed vegetable seeds on dated 17 Sep 2020. Around 100 Anganwadi workers and women farmers of Mangrul, Gumgaon and Adegaon villages of Nagpur District took part in programme organized at Mangrul in Hingan tahasil of Nagpur district in collaboration with IFFCO.

Dr. Siddharth M. Wasnik, Principle Scientist, Extn.Edu. and Head KVK, Smt. Sunita Chauhan, SMS, KVK, Vishal Magar, IFFCO, Zonal Manager, Sh. Ishwarji Kale, Upsarpanch, Sh. Anil Gayakwad, Project Manager, CARD, (Centre for Advance Research & Development), Sh. Paras Gaikwad, Coordinator-CARD, were also present on the occasion.



**Dr. Siddharth M. Wasnik, Scientist, Extn.Edu. and Head KVK, ICAR-CICR, Nagpur distributing vegetables kits to Anganwadi workers and women farmers**

Dr. Siddharth M. Wasnik, Principal Scientist, Extn.Edu. and Head KVK in his addressed explained about the importance of Nutritive diet in daily life. He discussed about the Nutrition garden models developed at KVK, CICR, Nagpur for visiting farmers and urged the participants to develop such nutrition gardens at their farms for meeting the needs of fruits & vegetables in daily diets. He addressed villagers that KVK will help them in converting Mangrul, Metaumri, Gumgaon, Adegaon, Waghdhara villages as Nutrition Villages. On the occasion 100 vegetable kit supplied by IFFCO was distributed among Anganwadi workers and women farmers. At the Onset of the programme importance of development of Nutrition Garden, various models of Nutrition Garden as per space available was explained by Smt. Sunita Chauhan.

Also KVK, ICAR-CICR, Nagpur organized Local Nutrition Rich Food Products Preparation Competition at village Waghdhara, Tah.- Hingna, Nagpur district on 23<sup>rd</sup> September, 2020. 34 Anganwadi workers of Butibori circle have attended the programme. Dr. S. M. Wasnik, Principal Scientist (Agriculture Extension) and Head KVK, ICAR-CICR, Nagpur appreciated the work of Anganwadi worker and supervisors for uplifting the Nutritional statues of pregnant women lactating mothers and children by promoting various dishes of local food Ranbhaji as well as Nutrition Garden at Anganwadi and rural household given by KVK, ICAR-CICR, Nagpur.



**Sh. Chinchane, CDPO Hingna, observing Poshank Thali prepared by Anganwadi Workers, Hingna under Poshan Maah.**

Smt. Sunita Chauhan, SMS, Home Science guided the Anganwadi workers for preparation and proper presentation of Nutritious recipes from Sorghum, Pearl Millet, Ragi, Maize, Bottle Gourd, Papaya, Drumstick. As all these are grown at their back yard and at their farm, hence getting in plenty and cheap in cost. On the occasion Dr. S.M. Wasnik, Sh. Chinchane, CDPO Hingna, Sh. Patil, Sarpanch, Waghdhara, Dr. S.S. Patil, Dr. U.V. Galkate, felicitated the best Anganwadi workers about Nutrition Thali and gave prizes of winners of Nutritious Snacks, Traditional Festival Thali and Nutritious Thali.

## **“World Soil Day” Programme at village Gumthala, Nagpur**

KVK, ICAR-CICR, Nagpur and District Agriculture Department-Nagpur Jointly organised “**World Soil Day**” Programme at Gumthala village Nagpur on dated 05-12-2020. The programme was celebrated on the theme “**Keep Soil alive, Protect Soil Biodiversity**”. The programme was attended by Dr. S. M. Wasnik-Principal Scientist (Agril Extension) & Head KVK, ICAR-CICR Nagpur, Dr. S. S. Patil-SMS (Extension) KVK, ICAR-CICR, Nagpur, Mr. Ravindra Bosle, Joint Director of Agriculture Nagpur, Sh. Milind Shinde - District Superintendent Agriculture officer Nagpur, Sh. T. K. Patil-District Soil Testing Officer Nagpur and Sh. Eluka Sridher- Soil Lab Technician KVK, ICAR-CICR, Nagpur were present.

On the occasion Dr. S. M. Wasnik Principal Scientist (Agril Extension), Head KVK, ICAR-CICR, Nagpur urged the farmers to conserve good quality of soils and stop the excess use of fertilizers which have led to serious hazards on the soil health. He also suggested to the farmers use of Bio-fertilizers certainly help to maintain quality of soils and improves productivity of crops. Mr. Ravindra Bosle - Joint Director of Agriculture, Nagpur chaired the function and spoke about importance of Soil testing and application of fertilizers as per recommendation given on Soil Health Cards for



reducing cost of cultivation. He also emphasized regarding the micronutrients availability in soil and their importance in plant growth and development. After that Sh. Milind Shinde - District Superintendent Agriculture officer Nagpur suggested to the farmers to focus on Organic farming and applying Organic manure is the only solution to improve the Soil Organic carbon productivity in the future. About 50 Farmers attended this programme.

## **International Women Day on 8<sup>th</sup> march-2020**

KVK, ICAR-CICR and Anganwadi workers of Nagpur district collaboratively organized International Women Day on 8<sup>th</sup> March-2020 at Abasaheb Khedkar Sabhagruha, Zilla Prishad, Nagpur. In this programme Dr. S.M. Wasnik, Principal Scientist / Head KVK, Smt. Sunita Chuahan, SMS, Home science of KVK, Zilla Parishad Chairman- Smt. Rashmi Barve, ZP CEO- Sh. Sanjay Yadav, Women Child Development Secretary -Smt. Ujwala Dodhare, District Programme Officer of Women & Child welfare (Rural) - Sh. B.G. Tambe, District Programme Officer of Women & Child welfare (Urban) - Sh. Jadhav & 80 Anganwadi workers of Nagpur district were present.

Dr. S.M. Wasnik wished all women with happiness, health, success and prosperity in the years ahead and he recalled the theme of International women day 2020 - **“I am Generation Equality: Realizing Women's Rights”**. The theme emphasizes on economic empowerment of women as one of the important factors to provide her equality in the society. And he has praised the Anganwadi work women as they are Organizing pre-school activities, provide health and nutritional education to families especially to pregnant women breastfeeding practices, improve the nutritional and health status of children below the age of six years etc. He also urged them to visit KVK and get the adequate benefits from trainings giving by the KVK. Smt. Sunita Chuahan SMS Home science of KVK has congratulated all the women and emphasized about establishment of nutrition garden and its importance at house hold level to the anganwadi supervisors. After that Zilla Parishad Chairman- Smt. Rashmi Barve said today’s woman is no longer dependent. She is self-reliant and Independent in every aspect and is capable of doing everything equal to men. We have to respect women not because of the gender, but for their own identity. We have to accept that both men and women contribute equally to the betterment of the home and society. At the end of the programme 15 Anganwadi supervisors of Nagpur district were felicitated due to their immense working proficiency.



## **Swachhata Pakhwada (16<sup>th</sup> Dec to 31<sup>st</sup> December-2020)**

Krishi Vigyan Kendra, ICAR-CICR, Nagpur Conducted Swachhata Pakhwada from 16/12/2020 to 31/12/2020. Under this program various activities related to cleanliness were carried out as follows

### **Date wise Action Plan for Swachhata Pakhwada 16-31 Dec., 2020.**

<b>Sl. No</b>	<b>Date</b>	<b>Activities</b>
1	16.12.2020	Swachhata Pledge
2	17.12.2020	Cleaning of office, corridors and premises
3	18.12.2020	Cleanliness & Sanitation drive at KVK adopted village Bendoli
4	19.12.2020	Cleanliness and Sanitation drive within Campus
5	20.12.2020	Generation of wealth from waste, composting of kitchen and home waste materials. Promoting clean & green technologies and organic farming practices in kitchen gardens.
6	21.12.2020	Campaign on cleaning of sewerage & water lines, kitchen gardens in residential colonies/ 1-2 nearby villages
7	22.12.2020	Organised Cleaning Awareness Rallie in village Chargaon.
8	23.12.2020	Celebration of Kisan Day and Cleaning Awareness programme at village Muradpur.
9	24.12.2020	Swachhata Awareness at local level at non adopted village.
10	25.12.2020	Cleaning of public places, nearby tourist spots.
11	26.12.2020	Organised Drawing competitions for school children's.
12	27.12.2020	Awareness on waste management & other activities including utilization of organic wastes/ generation of wealth from waste. Composting of kitchen and home waste materials, promoting clean & green technologies and organic farming practices
13	28.12.2020	Campaign on cleaning of sewerage & water lines.
14	29.12.2020	Visit to community waste disposal site
15	30.12.2020	Involvement of VIP / VVIP in the Swachhata Activities.
16	31.12.2020	Publicity of Activities of Swachhata Bharat Pakhwada through Press & electronic media



**Swachhata Pakhwada 16<sup>th</sup> Dec to 31<sup>st</sup> December Conducted at KVK, ICAR -CICR, Nagpur**

## Fruits crops at KVK farm

Krishi Vigyan Kendra, CICR, Nagpur has established fruit crops such as Guava (L-49), Orange (Nagpur mandarin) and Sweet Orange (Katol Gold) and Mango at its farm for the benefit of farmers and other visitors.

## Soil Testing Activities of KVK

Four hundred ninety five (495) soil samples were collected from villages of the Hingna and Umred blocks of Nagpur district and also from the field of adopted farmers of KVK. The soil samples were analyzed for 12 different parameters in KVKs soil testing lab and 495 Soil Health Cards generated depicting the soil test based fertilizer recommendations.



## Development of fodder cafeteria at KVK's Farm:

KVK has established fodder cafeteria in its instructional farm with six perennial varieties of hybrid napier fodder crop viz. Phule Jaywant (RBN-13) and Phule Yashwant (RBN-9) developed by MPKV, Rahuri, BHN-6 developed by BAIF, Karnataka, DHN-10 developed by IGFRI, Regional Research Station, Dharwad, HBN-100 and CO4 developed by TNAU. Several farmers, rural youth, extension functionaries and trainees visited these demonstration plots during this year.

KVK generated a resource of Rs 36,900/- by selling 36,900 Stem cuttings/root slips of Hybrid Napier fodder crop to 30 farmers of Nagpur and surrounding districts during 2020. Besides that, 40,000 stem cuttings costing Rs.40,000/- was supplied to the 40 beneficiaries selected for conducting On Farm Trials in adopted villages of KVK.



**Hybrid napier DHN-10**



**Hybrid Napier BHN-6**

## Management of Osmanabadi Goat Unit at KVK:

KVK is managing a goat unit of Osmanabadi breed on scientific line at KVK's campus. Several goat owners and rural youths are benefited by acquiring practical skills from the goat unit. In addition, this goat unit has generated a resource of Rs.2,02,555/- during the year 2020 by selling 10 breeding bucks and 20 females which are bringing about genetic improvement in local goats.



### IPM Module of Vegetable to enhance the income of farmers

Krishi Vigyan Kendra, ICAR -CICR, Nagpur has demonstrated the IPM module of vegetable in 2019-20, 2020-21 to enhance the income of farmers. Technological intervention as IPM component for controlling sucking pest (Aphid & Jassid) and nematodes have been undertaken in 5000 sq.ft area with an expectation of increased income in plot comprising of cabbage and cauliflower as main crop along with marigold, mustard and coriander. Sorghum was planted along the borders to act as crop and bird punchers. Yellow sticky trap, pheromone traps and trico- card were adopted.



In this model Bio-Dynamic formulation such as Jivamrut, Decomposer and Neemark 5% was applied for pest and diseases management of cole crops. With the application of the organic inputs up to 60 days infestation of Diamond back moth was not observed. It lead to reduced expenditure on spraying of chemical for management of Diamond back moth.

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### Advisory Services Provided

KVK has provided advisory services to the farmers, rural youth and extension functionaries through personnel guidance, telephonic calls and mobile services on agricultural production, protection technology and allied fields. Through the advisory services 42,739 clients in Nagpur district were benefited.

### KVK Participates in Kaneri, Kolhapur Innovative Farmers Meet:

KVK, Kaneri, Kolhapur has arranged National level Organic Farmers Meet from 30.01.2020 to 01.02.2020. The two best organic cultivar, entrepreneur registered in KVK, Nagpur were nominated to participate in this meet. Sh. Jitendra Bhakane has presented Decorative cow dung products for income generation and Sh. Sandip Kubade has presented his organic horticulture production. Smt. Sunita Chauhan, SMS, KVK, Nagpur accompanied with the farmers for the meet



Innovative Farmer Sh. Sandip Kubade, Nagpur Presentation in Meet

## Extension Activities Conducted by KVK

Details of various field days, farmers meet's organized by KVK.

Sr. No.	Title of programme	Date	Venue	No. of participants	Dignitaries attended the programme
1.	Yearlong constitutional day celebration 1. activity: "Important constitutional Amendments and their significance"	01.01.2020	KVK, ICAR-CICR, Nagpur	104	Dr. V.N. Waghmare, Director, ICAR-CICR, Dr. N.M. Khirale, HoD, Dept. of Law, Dr. Ambedkar College, Nagpur, Dr. S.M. Wasnik, Head KVK, ICAR-CICR, Nagpur.
	2. activity: "Talk on constitution and citizen duties, land legislations and reforms"	24.02.2020	KVK, ICAR-CICR, Nagpur	155	Dr. V.N. Waghmare, Director, ICAR-CICR, Prof. Ram Ghodeswar, Dr. S.M. Wasnik, Head KVK, ICAR-CICR, Nagpur.
2.	Training to DEASI trainees from Pipri Wardha	29.01.2020	KVK, ICAR-CICR, Nagpur	40	Dr. S M Wasnik, Dr D. Nagrale, Dr Deulkar
3.	Training to cotton farmers on IPM & goat farming	12.02.2020	Meta Umari, Hingana	48	Dr. S M Wasnik, Head KVK, ICAR-CICR, Nagpur, Dr SS Patil, SMS, KVK Dr UV Galkate, SMS, KVK E. Shreedhar, T1 KVK Akshay Kamble T1 ICAR-CICR, Nagpur
4.	Training to cotton farmers on IPM	15.02.2020	Nildoh, Hingana	36	Dr. S M Wasnik, Dr BB Fand, Akshay Kamble
5.	Training to farmers on kitchen gardening	18.02.2020	Nildoh, Hingana	43	Dr. S M Wasnik, Dr S. Chavan, Akshay Kamble
	Training to farmers on ARYA Activities, Agrometeorology	04.03.2020	Paradsinga, Katol		Dr. S M Wasnik, Dr SS Patil., Jaishri Khobragade, Prashant Gaikwd
6.	International Women Day	08.03.2020	Abasaheb Khedkar Sabhagruha, Zilla Prishad, Nagpur	158	Dr. S.M. Wasnik, Head KVK, ICAR-CICR, Nagpur, Smt. Sunita Chauhan, SMS, KVK, ICAR-CICR, Nagpur
7.	Webinar on World Environment Day	05.06.2020	KVK, ICAR-CICR, Nagpur	251	Dr. S. K. Chaudhary, Deputy Director General, (Natural Resources Management ), ICAR , New Delhi , Dr. C. D. Ma yee, Former - Chairman, A SRB, New Delhi, Dr. V. N. Waghmare, Director, ICAR- CICR, Nagpu r. Dr. Lakhan Singh, Director, ICAR- (ATARI), Pune , Dr. S.M. Wasnik, Head KVK, ICAR-CICR, Nagpur.
8.	Guided farmers on cotton production	13 June 2020	On-line Cloud HD	65	Dr. S. M. Wasnik, Principal Scientist (Agri. Extension) &

	technology during		Video meeting on Zoom organised by Dhanuka		Head KVK, ICAR-CICR, Nagpur
9.	Krushni Din	01.07.2020	Village-Umta, Narkhed	43	Dr. S.S. Patil
10.	Parthenium Awareness Week	16-22.08.2020	KVK, ICAR-CICR, Nagpur	27	Dr. S.M. Wasnik, Head KVK, ICAR-CICR, Nagpur & KVK Team
11.	Plantation Drive organised on 2nd October, 2020 under POSHAN Abhiyaan	02.10.2020	KVK, ICAR-CICR, Nagpur	13	Dr. S.M. Wasnik & Team KVK
12.	Mahila Kisan Diwas	15.10.2020	Gumgaon village, Nagpur	46	Dr. S.M. Wasnik & KVK Team
13.	World Food Day	16.10.2020	Webinar	52	Dr. S.M. Wasnik
14.	Constitution Day	26.11.2020	KVK, ICAR-CICR, Nagpur	23	Dr. S.M. Wasnik
15.	Kisan Diwas	23.12.2020	Village-Muradpur	60	Dr. S.M. Wasnik Dr. S.S. Patil
16.	Jay Kisan and Jay Vigyan Day	25.12.2020	KVK, ICAR-CICR, Nagpur	68	Dr. S.M. Wasnik & KVK Team

### Meetings Attended

Scientist and Officials of KVK, CICR Nagpur represented in the following meetings/workshop/seminars/conferences

Name of the officials	Name of event	Location	Date
<b>Meetings</b>			
Smt. Sunita Chauhan	National level Organic Farmers Meet	KVK, Kaneri, Kolhapur	30.01.2020 to 01.02.2020
Dr. S. M. Wasnik	Interdisciplinary National Conference on Recent Innovations in Agri-Biosciences in strengthening the Indian Economy. Challenges & Prospects & Farmers meet (RIABSIECP-2020)	Dr Ambedkar College, Deekshabhumi Nagpur	01.02.2020
Dr. S. M. Wasnik	ATMA Governing Body meeting	Collectorate office Nagpur	11.02.2020
Dr. S. M. Wasnik	Attended Manav Vikas Yojana meeting	Collectorate office Nagpur	24.02.2020
Dr. S. M. Wasnik	Quarterly Meeting of All India Radio	Akashwani Nagpur	26.02.2020
Dr. S. M. Wasnik	XIth Annual National Conference of KVKs organised by DDG Extension	NASC complex ICAR New Delhi	27.02.2020 to 01.03.2020
Dr. S. M. Wasnik Dr. P.B. Deulkar	Daylong workshop on "Empowering Schedule Caste Unemployed rural	Village - Godhani,	03.03.2020

	youth for developing agribusiness and entrepreneurship”	Tah - Umred, Dist.- Nagpur	
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar Sh. Pravin Ambade Dr. Sachin Wankhede Sh. Eluka Sridhar	Online Video Conferencing meeting of Vidharbha KVKs organized by ATARI Director, ZONE-VIII Pune	Webinar	15.04.2020
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar Sh. Pravin Ambade Dr. Sachin Wankhede Sh. Eluka Sridhar Sh. Prashant Gaikwad Smt. Jayashree Khobragade Sh. Amol Raghorte	State Level On-line Annual Action Plan Workshop of KVKs of Maharashtra and Goa organised by ATARI Director, ZONE-VIII Pune	Webinar	27-28.05.2020
Dr. S. M. Wasnik	On-line ZONAL Research and Extension Advisory Committee (ZREAC) Meeting organised by Dr PDKV	Webinar	11.06.2020
Dr. S. M. Wasnik	On-line Scientific Advisory Committee Meeting (SAC) of Krishi Vigyan Kendra Yavatmal on 20 June 2020	Webinar	20.06.2020
Dr. S. M. Wasnik Dr. S.S. Patil Smt Jaishri Khobragade SRF	Online ARYA Workshop chaired by Hon'ble Secretary DARE & DG ICAR. Trilochan Mohapatra	Zoom	16 June 2020
Dr. S. M. Wasnik	On-line Scientific Advisory Committee Meeting (SAC) of Krishi Vigyan Kendra Wardha	Webinar	24.06.2020
Dr. S. M. Wasnik	Annual Zonal Workshop of KVKs of Maharashtra, Gujarat and Goa organized by ICAR - ATARI, Pune	Online	10 <sup>th</sup> to 12 <sup>th</sup> July, 2020
Dr. S. M. Wasnik	"Enhancing Global Competitiveness of Indian Agriculture" organized by Confederation of Indian Industry	Webinar	24.07.2020
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar	Foundation Stone Laying Ceremony of Administrative Building of KVK, Surat	Webinar	05.08.2020
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar	Online Programme of Hon'ble PM transferring funds of PM Kisan of over Rs 17000 cr to 8.5 cr farmers and launching Agriculture Infra Fund of Rs 1 lakh cr loan via on line function	Webinar	09.08.2020

Dr. S. M. Wasnik	Meeting at collect orate office connection with FPO formation	Collectorate office Nagpur	14.08.2020
Dr. S. M. Wasnik	Formation and effective functioning of FPO organized by ICAR-RCER	webinar	18.08.2020
Dr. S. M. Wasnik Dr. U. V. Galkate Dr. P. B. Deulkar	Fostering Freshwater Aquaculture Technology Dissemination through KVK Network	Webinar	27.08.2020
Dr. S. M. Wasnik	Online Programme of “Inauguration of Academic and Administrate Building in Rani Lakshmi Bai Central Agricultural University” by Honourable PM	Webinar	28.08.2020
Dr. S. M. Wasnik Dr. S. S. Patil	e-Talk on “Digital Platforms for Effective Outreach” jointly organized by ICAR-ATARI, Pune, KVK-Kolhapur-II and KVK- Pune-II.	Webinar	29.08.2020
Dr. S. M. Wasnik Dr. Sachin Y. Wankhede Mr. Prashant S. Gaikawad	Zonal Review Workshop Gramin Krishi Mausam Sewa (GKMS) Project: DAMUs jointly organized by ATARI, Pune; IMD, New Delhi and KVK Jalna-I.	Webinar	3 <sup>rd</sup> September, 2020
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar Dr. Sachin Wankhede Sh. Eluca Sridhar	Capacity Development of Anganwadi workers & Farm women on Poshan	Webinar	17.09.2020
Dr. S. M. Wasnik Dr. S. S. Patil	Three days online “National Oilseed Brainstorming Meet (Research-Industry-Farmer Interface)” jointly organized by ICAR-IISR, Indore; ICAR-IIOR, Hyderabad; ICAR-IIOPR, Pedavegi; ICAR- DGR, Junagarh and ICAR- DRMR, Bharatpur	Webinar	23-25.09.2020
Dr. S. M. Wasnik Dr. S. S. Patil	Two-Day National level Consultation on Natural Farming organized by NITI Aayog	Webinar	29-30.09.2020
Dr. S. M. Wasnik	Review meting of KVKs of Maharashtra, organised by Commissioner Agriculture , Maharashtra, Pune	Webinar	30.09.2020
Dr. S. M. Wasnik	Meeting on Farmers Act addressed by Ministers, DG,DDGs, Govt of India dignitaries	Webinar	03.10.2020
Dr. S. M. Wasnik Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar	Virtual meet on Outreach program for KVK farmers on Farm Act by MoS	Webinar	07.10.2020

Sh. Pravin Ambade Dr. Sachin Wankhede Sh. Eluka Sridhar			
Dr. S. M. Wasnik	Meeting at collect orate office connection with FPO formation	Collectorate office Nagpur	09.10.2020
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar Dr. Sachin Wankhede Sh. Eluka Sridhar	Popularization of FARMS Mobile App through KVKs	Webinar	09.10.2020
Dr. S. M. Wasnik Dr. U. V. Galkate Dr. P. B. Deulkar	Online workshop - All India Fodder Production Officers: Rabi	Webinar	13-15.10.2020
Dr. S. S. Patil Smt. Sunita Chauhan	Virtual Krishi Mela 2020	Webinar	13-14.10.2020
Dr. S. S. Patil Smt. Sunita Chauhan Smt. Jayashree Khobragade Sh. Amol Raghorte	National Citrus Webinar	Webinar	13-14.10.2020
Dr. S. M. Wasnik	World Food Day programme organized by ICAR	Webinar	16.10.2020
Sh. Eluka Sridhar	National webinar on quality improvement and proficiency testing of soil laboratories in India	Webinar	31.10.2020
Dr. S. S. Patil Smt. Sunita Chauhan Smt. Jayashree Khobragade	Export Quality Mango Production	Webinar	3-6.11.2020
Dr. S. S. Patil Dr. S. Y. Wankhede	Online Training Program on “Climate Resilient Development in Agriculture”	Webinar	7-11.11.2020
Dr. U. V. Galkate	World Fisheries Day	Webinar	21.11.2020
Dr. S. M. Wasnik	Curtain raised programme of IISF2020	Webinar	16.12.2020
Dr. S. M. Wasnik	Inauguration of Sixth edition of ‘India International Science Festival (IISF- 2020)	Webinar	22.12.2020
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar	Agricultural Scientists Meet	Webinar	23-24.12.2020
Dr. S. S. Patil Smt. Sunita Chauhan Dr. P. B. Deulkar	National Webinar on Onion Seed Production	Webinar	24.12.2020
Smt. Sunita Chauhan Smt. Jayashree Khobragade	Online Training on Hi-Tech Cultivation of Vegetables & Grafting in Vegetables (Dutch Technology)	Webinar	24.12.2020
Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. P. B. Deulkar	Valedictory function of Sixth edition of ‘India International Science Festival (IISF-2020)	Webinar	25.12.2020

Dr. S. M. Wasnik Dr. S. S. Patil Dr. U. V. Galkate Smt. Sunita Chauhan Dr. Sachin Wankhede Sh. Eluka Sridhar	Live web casting of Hon'ble Prime Minister of India addressed to the farmers and released PM Kisan money to farmers.	Webinar	25.12.2020
Dr. Sachin Y. Wankhede Mr. Prashant S. Gaikawad	Biweekly meeting of forecast and Advisory on every Tuesday and Friday of the week	KVK, ICAR-CICR, Nagpur (Online)	Every Tuesday and Friday of the week
<b>Guest Speaker</b>			
Dr. P.B. Deulkar	Delivered lecture on "Goat & Poultry Farming" in one day workshop on "Empowering Schedule Caste Unemployed rural youth for developing agribusiness and entrepreneurship" under SCSP Project	At Godhani village Tah-Umred Dist.-Nagpur	03.03.2020

### List of publications

1. Sunita Chauhan; S. M. Wasnik (2020) Farm women empowerment through use of Drudgery reduction tools, Interdisciplinary National Conference on Recent Innovation in Agri-Bioscience in strengthening the Indian economy: Challenges and prospects and farmers meet (RIABSCIECP-2020) pp-72. Feb 2020.
2. Processing of Fruits and Vegetables: Profitable Enterprise. (Author- Smt. Sunita Chouhan, SMS (Horticulture), Editor- Dr. S. M. Wasnik, Principal Scientist (Agri. Ext.) & Head KVK, ICAR-CICR, Nagpur Publisher- Dr. V. N. Waghmare, Director, ICAR-CICR, Nagpur)
3. Value addition of Custard Apple. (Author- Smt. Sunita Chouhan, SMS (Horticulture), Editor- Dr. S. M. Wasnik, Principal Scientist (Agri. Ext.) & Head KVK, ICAR-CICR, Nagpur Publisher- Dr. V. N. Waghmare, Director, ICAR-CICR, Nagpur)
4. Dr. S.M. Wasnik, Shri. K.I. Chaple and Dr. S.S.Patil. Techniques of Bt. cotton cultivation, '**Krushji Jagran**' Special issue June 2020, pp: 22-29.
5. Dr. S.M. Wasnik, Shri. K.I. Chaple and Dr. S.S. Patil. Irrigation management in cotton crop, '**Agrowan**' Special issue July 15<sup>th</sup> 2020, pp: 14.
6. Dr. S.M. Wasnik, Shri. K.I. Chaple, and Dr. S.S. Patil. Pheromone traps for integrated pest management, '**Agrowan**' Special issue July 17<sup>th</sup> 2020, pp: 11.
7. Dr. S.M. Wasnik, Shri. K.I. Chaple, and Dr. S.S. Patil. Types of pheromone traps and their crop wise used, '**Agrowan**' Special issue July 18<sup>th</sup> 2020, pp: 14.
8. Dr. S.M. Wasnik, Shri. K.I. Chaple and Dr. S.S. Patil. Identification of Bio-pesticides and fertilizers, '**Krushji Jagran**' Special issue July 2020, pp: 20-23.

9. Dr. S.S. Patil and Shri. K.I. Chaple. Major Sucking pest on Cotton and their management, ‘**Krushakonnati**’, Special issue Aug 18<sup>th</sup> 2020, pp:10
10. Dr. S.S. Patil and Shri. K.I. Chaple. Pink bollworm management on Cotton, ‘**Krushakonnati**’, Special issue September 1<sup>st</sup> 2020, pp:11

### **Popular article:**

1. S. M. Wasnik, S. Y. Wankhede, P. S. Gayakwad. 2020. *Meghdoot: Hawaman Aadharit Vyavasthapanasathi Mobile App*. Krushakonnati: 29<sup>th</sup> April, 2020.
2. S. M. Wasnik, S. Y. Wankhede. 2020. *Pikachya Kadhani ani Malani Kalat Corona Pratibandhak Margadarshak Suchana*. Krushakonnati: 29<sup>th</sup> April, 2020.
3. S. M. Wasnik, S. Y. Wankhede. 2020. Corona mule Lockdown Chya Shetakari Bandhavanni Ghyavayachi Kalaji. Krushakonnati: 29<sup>th</sup> April, 2020.
4. S. Y. Wankhede, S. M. Wasnik, P. S. Gayakwad. 2020. *Meghdoot Sangel Hawamanacha Andaj*. Deshonnati: Krushak Jagar: 05<sup>th</sup> October, 2020.
5. S. Y. Wankhede, S. M. Wasnik, P. S. Gayakwad. 2020. *Hawaman Aadharit Krushi Vyavasthapanasathi Meghdoot App Tharanar Shetakaryansathi Waradan*. Krushakonnati: 06<sup>th</sup> October, 2020.
6. S. Y. Wankhede, S. M. Wasnik, P. S. Gayakwad. 2020. *Hawaman Aadharit Krushi Vyavasthapanasathi Meghdoot App Tharanar Shetakaryansathi Waradan*. Krushakonnati: 13<sup>th</sup> October, 2020.
7. S. Y. Wankhede, S. M. Wasnik, P. S. Gayakwad. 2020. *Gharabaheer Asatana Vijecha Dhoka Kami Karanyasathi Suchana*. Krushakonnati: 20<sup>th</sup> October, 2020.

### **Radio Talks:**

- ❖ Dr. P.B. Deulkar delivered radio talk on “Cultivation of hybrid Napier for nutritious fodder” on 22/01/2020 and broadcasted on 03/02/2020 at 7.30 pm on “Maz Ghar Maz Vavar Programme”.
- ❖ Dr. S. M. Wasnik, Principal Scientist (Agri. Extension) & Head KVK, ICAR-CICR, Nagpur delivered On-line Radio Talk on May 29, 2020 on Krishi Vigyan Kendra Nagpur & CICR Technologies for farmers in coming Kharip Season
- ❖ Dr. S M Wasnik Principal Scientist (Agri. Extension) & Head KVK, ICAR-CICR, Nagpur, delivered TV talk Micro Enterprises Programme for Farmers on March 11, 2020 through Sahyadri Vahini of Doordarshan Kendra, Mumbai