



Agroforestry Newsletter i d f'kokfudh Lkekpkji=

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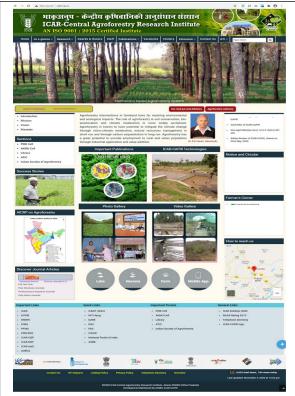
Dr. Ayyanadar Arunachalam joined as Director

Dr. Ayyanadar Arunachalam has joined as Director, ICAR-Central Agroforestry Research Institute (CAFRI), Jhansi w.e.f. 9th December 2020. Erstwhile, he served as Principal Scientist (2010-12) in Natural Resource Division at Indian Council of Agricultural Research (ICAR) Head Quarter, New Delhi. He also served as Principal Scientist (2012-20) in the Office of the Secretary, Department of Agricultural Research and Education (DARE) & ICAR, Krishi Bhawan, New Delhi; besides, became Assistant Director-General (International Relations) from 2018 to 20 at ICAR, New Delhi.



ICAR-CAFRI WEBSITE UPGRADED TO DYNAMIC VERSION

The website of ICAR Central Agroforestry Research Institute has been updated to a dynamic version with success stories, awards and honors, extension activities, transferable technologies, photo and video gallery, farmer's corner and quick links etc. as user friendly. Windows server '2012 R2' is being used to host the updated website and the web address is i.e. http://www.cafri.res.in. The home page was completely redesigned with a more beautiful appearance and additional items like sections, lab, farm, nursery, notice and circular, important links, quick links, general links, farmers corner, location of Institute on Google Map, etc. along with the social media sharing buttons, bottom-up button, last updated of the page daily and total visitors counters have also been added. The link for the mobile app 'FarmTree' developed by ICAR-CAFRI, Jhansi, COVID-19 advisory and pop-up image for COVID-19 awareness also made available on home page of new website. This upgraded version of the website is based on the best available open source web development tools like 'WordPress' (V.5.5.3) and 'XAMPP' (V.7.2.34) which enhanced its visuality and functionality to a greater extent. Technically, WordPress is an easiest and most powerful blog and website builder as well as content management system (CMS) written in PHP that uses a MySQL database. XAMPP package such as Apache server, Maria DB, PHP, Perl etc. provide to build Word Press site offline on a local web server of a computer. Most of the content in the new website was taken from its older version and a link for older version of the website is also available on the homepage. The new website is regularly updated to provide information on latest events and other important activities of the Institute.



1. Homepage of new website



2. Overview page





4. Extension activities

R H Rizvi, Hirdayesh Anuragi and Abhishek Deb ICAR- Central Agroforestry Research Institute, Jhansi

The review of Doubling farmers' income (KISAN MITrA) project of Bundelkhand region of U.P. by Sh. Surya Pratap Shahi, Hon'ble Minister for Agriculture, Agriculture Education and Agriculture Research, Government of UP

A KISAN MITrA project on Doubling Farmers' Income in Bundelkhand region of Uttar Pradesh is being implemented at pilot sites in seven districts of Bundelkhand Region UP in Central India covering about 40,000 ha area. The project is being implemented in 22 villages covering about one lakh population. The project is supported by Government of Uttar Pradesh and is being implemented by ICRISAT, ICAR-CAFRI and other consortium partners. The project was initiated during 2018. The participation of ICAR-CAFRI as consortium partner, started during 2019.

To establish pilot sites (5000 ha in cluster of villages per district) as "sites of learning" by integrating science-led interventions for increasing productivity, affordable food and nutrition security; enhancing crop intensification and diversification through various natural resource management and agroforestry interventions and to build capacity of the stakeholders in the target districts for doubling the farmers' income through scaling-up of integrated science-led approach are the main project objectives. The ICAR-CAFRI is working with the main focus on to enhance water resource availability and restore ecological balance through construction of cost-effective rainwater harvesting structures (e.g., *Haveli* renovation, check dams, groundwater recharge units, farm ponds, field bunding, etc.); to improve and optimize crop and livestock productivity through various agroforestry interventions and to develop model site of learning in Bundelkhand region of UP. In this project efforts have been made towards rainwater harvesting, agroforestry plantation, productivity enhancement, livestock based interventions and capacity building in all eight pilot sites of Bundelkhand region.

Shri Surya Pratap Shahi ji, the Hon'ble Minister for Agriculture, Agriculture Education and Agriculture Research, Government of Uttar Pradesh, reviewed the progress of the DFI project at Banda University of Agriculture and Technology (BUAT), Banda on 3rd July, 2020 (Plate 1). Dr. Ramesh Singh, Principal Scientist, ICRISAT, Hyderabad and Dr. Inder Dev, Principal Scientist, ICAR-CAFRI, Jhansi briefed the progress made so far on various aspects of the project activities. Hon'ble Minister appreciated the efforts made by ICRISAT, ICAR-CAFRI and other consortium partners. During the review meeting Sh. Sahi ji suggested BUAT faculty to orient themselves in the similar lines to create the larger impact in the region. The Hon'ble Minister also suggested to make appropriate efforts to scale up such initiatives in the Bundelkhad region.

Plate 1: Review meeting of KISAN MITrA project and activities of BUAT, Banda on 3rd July 2020

Shri Surya Pratap Shahi ji, the Hon'ble Minister for Agriculture, Agriculture Education and Agriculture Research, Government of Uttar Pradesh, alongwith Sh. Upadhaya ji (Minister of State for Public Works, Government of Uttar Pradesh and Local MLA, Chitrakoot) and State

government officials visited next day (on 4th July, 2020) one of the project sites of DFI (Rauli-Kalyanpur village) in Chitrakoot district. He visited the *Haveli* (traditional rainwater harvesting structure). The *haveli* was filled with water with the recent monsoon showers recently (Plate 2). During the visit Dr. Ramesh Singh, ICRISAT explained about the various interventions related to *in situ* and *ex situ* rain water harvesting, while Dr Inder Dev explained about the activities being taken up regarding agroforestry plantations, crop productivity enhancement, livestock productivity enhancement and capacity building. The Hon'ble Minister was also briefed that ICAR-CAFRI has planned to plant about 1,33,000 agroforestry plantation at the farmers' fields under this project.

Plate 2: Visit of Sh. Surya Pratap Sahi ji Hon'ble Minsiter for Agriculture, Agriculture Education and Agriculture Research, Govt. of UP at the *Haveli* site, Rauli Kalyanpur village, in Chitrakoot district, Uttar Pradesh

(Inder Dev.....)

ICAR- Central Agroforestry Research Institute, Jhansi

Vanamahotasava at DFI site Sutta and Singar

Vanamahotasava was jointly organized by ICAR-CAFRI and ICRISAT, Hyderabad on 18.08.2020 at Sutta and Singar village (DFI sites), Garontha tehsil of Jhansi district. Sh. Jawahar Rajput, Hon'ble Member of Legislative Assembly, Uttar Pradesh was the chief guest of the function. The programme received overwhelming response in the village with over 60 participating farmers. The Hon'ble MLA along with Director, ICAR-CAFRI, scientists of ICAR-CAFRI, ICAR-IGFRI and ICRISAT planted the tree saplings and visited the various sites, where different NRM interventions have been undertaken. At Sutta and Singar about 41,000 plants of various species have been planted during this season.

Sh. Jawahar Rajput ji, Hon'ble MLA, Sh. B.P. Tripathi (Social worker), Director, ICAR-CAFRI, Dr. Ramesh Singh, Principal Scientist ICRISAT, Dr Inder Dev, Principal Scientist (Agronomy) ICAR-CAFRI, Dr. Asha Ram, Scientist (Agronomy) ICAR-CAFRI and Gram Pradhan of the Sutta village graced the stage. At the outset, Dr. Asha Ram welcomed all the participants and briefly discussed the theme of the programme.

Thereafter, Dr. Ramesh Singh addressed the gathering and explained in detail about various activities taken up under DFI project for soil and water conservation in both the villages. He emphasized on the long run advantages of water conservation through check dams and restoration of traditional *havelis* in for mitigating drought in Bundelkhand region due to suboptimal and erratic rainfall during monsoon season.

Director, ICAR-CAFRI after expressing his gratitude to all the farming community for their

continuous and restless efforts in maintaining central pool of food-grains and highlighted the need of integrating agro-forestry component in farmer's field for doubling the farmer's income.

Dr. Inder Dev further stressed on the crucial role of trees in sustaining the livelihood of rural households. He explained that planting trees on bunds have multiple advantages, for instance, it acts as live fencing, sustain the natural environment and enhance farmer's income in long run the without affecting the cropped area.

The Hon'ble MLA applauded the commendable efforts of scientists and expressed his gratification for the activities being undertaken in the villages by the consortia for doubling the farmer's income. He also stressed on the role of farmer's cooperation in maintaining the all onfarm and off-farm structures and tree plantations in the farmer's fields. He further urged the farmers to maintain livestock on their farm itself for curbing *anna-pratha* problem in the region and assured the possible government support for the overall development in the village.

Sh. B.P. Tripathi and Gram Pradhan of the village also showed their happiness and commended the works done by the team of ICRISAT and ICAR-CAFRI. Dr. Asha Ram perorated the function and thanked all the participants.

(Inder Dev.....)

ICAR- Central Agroforestry Research Institute, Jhansi

Parthenium Awareness Week-2020

ICAR-Central Agroforestry Research Institute, Jhansi has observed the Parthenium Awareness Week during 16th - 22nd August, 2020. The programme was observed with creating interest and awareness amongst farmers, farm women, rural youth and other stakeholders. The farmers/villagers were made aware through mobile phones. An event was organized at Institute on 21st August, 2020. During the week, the visiting farmers and other stakeholders were also made aware about Parthenium weed.



Convergence of doubling farmers' income with Scheduled Caste Sub Plan (SCSP)

In the ongoing activities of KISANMITrA project led by ICRISAT, Hyderabad in consortium with ICAR-Central Agroforestry Research Institute, Jhansi (one of the consortium partner of the Doubling Farmers' Income Project),

ICAR-CAFRI is implementing SCSP schemes with the main objectives to accelerate the pace of development of the SCs and bridge the socio-economic development indicators between SCs as

compared to the advanced sections of the society. In this scheme the quantifiable benefits and capacity building programmes are being organized for scheduled caste households. The schemes includes the enhancement of incomes of the target group and lead to the development of assets such as those related to sectors like agriculture sectors.

Under the DFI Bundelkhand project, ICRISAT and ICAR-CAFRI are working together for the meeting the target of development of SC farmers in the selected 22 villages of different districts of Bundelkhand U.P. . Till November 2020, more than 600 farm families of SC category have been benefitted under the convergence.

Sh. Hargovind Kushwaha, Minsiter of State, Govt. of Uttar Pradesh was Chief Guest of function organized on 20.10.2020 at DFI village Singar (Bamour block, Jhansi District), where about 200 farmers and farmwomen participated in the function. In the function the SC farmers as well as other beneficiaries of the project participated. On this occasion, the knapsack sprayers, fertilisers (DAP, sulphur, Zn, Sagarika) as well as fruit plants were distributed to the SC beneficiaries.

On 13.10.2020 Sh. Hargovind Kushwaha ji visited Pura Birdha pilot site (Talbehat block of Lalitpur district) of the project. He was accompanied by many progressive farmers as well as state officials and social workers. On this occasion, the knapsack sprayers, fertilisers (DAP, sulphur and Sagarika) were distributed to the SC beneficiaries.

Sh. Hargovind Kushwaha ji applauded the efforts of ICRISAT on various project interventions as well as he appreciated the efforts of ICAR-CAFRI for jointly carrying out various interventions. He also appreciated the convergence of SCSP scheme implemented by ICAR-CAFRI with ICRISAT, Hyderabad.

Till now six project villages have been covered under the convergence that includes the beneficiaries from the Parasai-Sindh watershed also. About 230 SC farmwomen have been benefitted under this convergence. About implement kits, knapsack sprayers, fertilisers and fruit plants of about ₹ 27.0 lakhs have been distributed to the SC beneficiaries.

Villages	District	State	Male	Female	Total Beneficiaries
Rajapur	Jhansi	Uttar Pradesh	128	31	159
Bachhauni	Jhansi	Uttar Pradesh	18	68	86
Parasai	Jhansi	Uttar Pradesh	34	46	80
Singar	Jhansi	Uttar Pradesh	87	7	94
Sutta	Jhansi	Uttar Pradesh	120	16	136
Poora Birdha	Lalitpur	Uttar Pradesh	10	60	70
			397	228	625

	Material distributed		Units/No.	Per unit cost (₹)	Total cost (₹)
1	Implements kits	Khurpi, Tasla, spade, pickaxe, tasla etc.	159	830	131970
2	Knapsac	Hand and battery	625	2500	1562500

	sprayers	operated sprayers			
3	Fertilizers	DAP (50 kg)	466	1150	535900
		Sagarka (10 kg)	466	405	188730
		Zn (5.0 kg)	200	450	90000
		Sulphur (3.0 kg)	466	270	125820
4	Fruit Seedlings	Papaya	500	10	5000
		Fig	200	40	8000
		Custard apple	500	40	20000
					2667920



Sh. Harvind Kushwaha, Minister of State, Govt. of U.P. at the Agroforestry planation of teak at Pura Birdha



Distribution of sprayers and fertilisers to the SC farmers by the Chief Guest, Sh. Harvind Kushwaha ji at Pura Birdha



Sh. Harvind Kushwaha interacting with the tribal families at Birdha



(Project activities being explained at Birdha to Sh. Harvind Kushwaha ji)

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Mahila Kisan Gosthi

ICAR-Central Agroforestry Research Institute, Jhansi has organized Mahila Kisan Gosthi at village Ganeshgarh, Block-Babina in Jhansi district on 15.10.2020. The village is a part of Mera Gaon Mera Gaurav (MGMG) programme of the Institute. The Gosthi was organized on the occasion of Mahila Kisan Diwas in the country. Farm women and farmers from village Ganeshgarh had participated in the programme. The purpose of Gosthi was to create awareness amongst the



farm women and farmers about agroforestry in Bundelkhand. The major objective was to empower the farm women on agroforestry, agriculture, animal husbandry, kitchen garden, etc. Various activities i.e. farm women awareness programme, scientists-women farmers interaction and gosthi with farm women were organized. The programme was chaired by Dr. R. P. Dwivedi, Principal Scientist (Agrilcultural Extension). Dr. Dwivedi (Convener) expressed that farm women should be made aware about the innovations and new feasible technologies so that it will help the farm women in improving their livelihood options and income. Farm women expressed their views on growing of MPTS on bunds and fruit trees along with crops. Farmers also expressed the problems resulting due to drought i.e. drinking water, irrigation water, fodder, crop productivity, etc. Anna Pratha (let loose animals) is a major problem informed by farm women. The Mahila Kisan Gosthi was assisted by Shri Sunil Kumar, CTO (Soils) and Shri Rajesh Srivastava, ACTO. The subject wise details were discussed during the brain storming session. Soil water conservation, crops cultivation, fruit, fodder, fuelwood and timber trees were discussed. Farm women were provided technical know-how during question answer session. The farm women were also made aware of alternative systems which can provide maximum benefits in terms of production and livelihood during the drought situation. During gosthi, farm women, rural youth, marginal and small farmers were actively participated in group discussion and question-answer session. The farmers were also made aware about the Constitution of India. Awareness about Swachhata Action Plan (SAP) was also created. Swachhata oath was also taken by participants. Total 36 farm women, farmers and farm youth were participated in the programme. Progressive farm women Smt. Kaushalya and Smt. Manisha expressed their views. Progressive farmer Shri Balak Das Rajput proposed the vote of thanks.

Celebration before 150th Birth Anniversary on 2nd October 2020 of the Father of Nation Mahatma Gandhi

On the occasion of 150th Birth Anniversary celebration on 2nd October 2020 of the Father of Nation Mahatma Gandhi from 26th September-2nd October 2020 following events were organized at the Institute:

Inaugural Session

Inaugural session was organized on 26th September at 3.30pm in conference hall of ICAR-CAFRI, Jhansi. Director (A), ICAR-CAFRI Jhansi chaired the session and he thrown light on Gandhian philosophy and its application in our daily life. During the program participants shared the anecdotes from Gandhi ji's life which were inspiration to all attendees in the hall and encouraged to think about the simple life style of Mahatma Gandhi.





26.09.2020 <u>Yoga Session</u>

Yoga session was organized at ICAR-CAFRI campus on 27th September 2020 at 6.00 am. Dr. Inder Dev, Principal Scientist encouraged participants to practice regular yoga to remain fit and improve the concentration. Dr. Naresh Kumar, Senior Scientist explained remedies through yoga for personal health problems to the participants with lot of patience. The main aim was to raise the awareness and ignite a passion for fitness and yoga among the participants.





27.09.2020 Painting Competition

Painting competition was organized for children of ICAR-CAFRI staff members. The participants shown their talent and creativity through painting. Amazingly, the enthusiasm among the participants was worth watching. The finished products were amazing as the children had let their imagination run wild and create absolute magic. We waited for them to do so but in the process believed that every participant was a winner!!!





28.09.2020 Rangoli competition

Rangoli competition was organized for female participants of ICAR-CAFRI campus on 29th September at their residential colonies. They all participated very well and expressed their happiness through their rangolis. All female members were participated earnestly and with enthusiasm. Dr R. P. Dwivedi, Principal scientist, Dr Badre Alam, Principal scientist, Dr. C.K. Bajpai, CTO and Mrs. Shelja Tamrakar, Technical assistant, Library evaluated the competition on the same day.





29.09.2020 Swachhta Pledge

Swachhta pledge was organized at ICAR-CAFRI, Jhansi on 30th September at the premises in front of Director's Chamber. Staff members of ICAR-CAFRI actively participated in **Swachhta Pledge** and they were conveyed the massage of cleanliness and importance of Swachhta. Mrs. Alka Bharati, Scientist, Plant Biotechnology made us pledged for sparing time for cleaning our office premises.





30.09.2020

Swachhta Abhiyan at ICAR-CAFRI

Swachhta abhiyan was organized at ICAR-ICAR-CAFRI campus in residential colonies on 1st October 2020. All the staff members were actively participated in Swachhta abhiyan. They were highlighted with the importance of sanitation and the ongoing cleanliness drive "Swachh Bharat Abhiyan" started by our respected Prime Minister, Shri Narendra Modi.





1.10.2020

Celebration of Birth Anniversary of Father of Nation Mahatma Gandhi

Birth anniversary of Father of Nation Mahatma Gandhi was celebrated on 2nd October 2020 in conference hall of ICAR-CAFRI, Jhansi. We are honored to have Dr S. S. Singh, Director Extension Education, RLBCAU, Jhansi as chief guest on this occasion of National importance. Mrs. M. Ashajyothi, Scientist, Plant Pathology convened the session by welcoming Dr. R. K. Tewari, Director, ICAR-CAFRI and our chief guest Dr. S. S. Singh. Dr. R. K. Tewari, Director, ICAR-CAFRI highlighted non-violent ways of Mahatma Gandhi to unite million of people to follow the path of 'Ahinsa' and protest against the evil oppression. Dr. S.S. Singh, RLBCAU, Jhansi gave a remarkable speech on **Gandhian Philosophy on Agriculture**. The participants of painting and rangoli competitions were awarded on this occasion. The Program was ended with vote of thanks given by Mr. Sukumar Taria, Scientist, Plant Physiology.





2.10.2020

R. P. Dwivedi, Sukumar Taria and M. Ashajyothi ICAR- Central Agroforestry Research Institute, Jhansi

Outbreak of white grub adults on Agroforestry tree species in pre- monsoon and their management

White grubs are soil-inhabiting polyphagous pests and are also known as root grubs. They belong to Scarabaeidae family of coleopteran insect order. White grubs are present throughout the year however their activity can be seen more during pre-monsoon and rainy season. Adults emerge in large numbers for mating after the first monsoon rains in mid-May or June months and again they return to soil for rest of its life cycle.

The study was conducted in ICAR- CAFRI, Jhansi, during pre-monsoon season for the outbreak of white grub adults on various promising agroforestry tree species like *Butea monosperma* (Figure 1A&B) *Azadirachta indica* (Figure 1C), *Ziziphus mauritiana* (Figure 1D), *Parthenium hysterophorus* (Figure 1E) and *Leucaena* spp (Figure 1F). Extensive damage was observed on *B. monosperma* (94-95%) incidence. The adult beetles attack host plants during night time (7 to 10 PM) and the damage symptoms include complete removal of host leaf tissue between veins and create holes at initial stage and later eat away the whole tissue and leave only veins of the foliage (Figure 1A to D).

Fig. 1 Foliar damage symptoms of white grub adults on different host plants

A) Complete defoliation on *Butea Monosperma*; B) Feeding of adult beetles on young leaves of *Butea monosperma*; C), *Azadirachta indica*; D) *Ziziphus mauritiana*; E) *Parthenium hysterophorus*; F) *Leucaena* spp.

Collection of white grub species was done in ICAR-CAFRI & IGFRI campus and the identification was done in ICAR-NBAIR, Bengaluru. The total seven species were identified on these five host plants (Table 1).

Table 1 List of white grub species

Sl. No	Scientific name	Sub Family	Family
1.	Schizonycha fuscescens Blanchard	Melolonthinae	Scarabaeidae
2.	Apogonia sp.		
3.	Anomala bengalensis (Blanchard)	Rutelinae	
4.	Anomala dorsalis (Fabricius)		
5.	Adoretus versutus Harold		
6.	Adoretus sp. 1		
7.	Adoretus sp. 2		

Management strategies: Deep summer ploughing helps in destruction of root grubs, remove alternate hosts near the fields, setting of light traps for collection of adult beetles and subsequent destruction will be effective (1trap/ha between 7 to 10pm) and spray Imidacloprid 17.8 SL @ 1.5ml/Liter.

Authors:

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³ICAR-Indian Grassland and Fodder Research Institute, Jhansi, India.

Participation in Training/Workshop/Coordination/Meetings/Symposia

S	Name of Programme	Organized By	Date	Participant
No	(Training/workshop/Se			
	minar etc.) attended			
1	Successful Agroforestry	Online workplan	6 th July, 2020	Dr A K Handa
	Models	meeting of		
		NABARD and		
		ICAR		
	Online lecture on	NABL, New Delhi	22 nd July,2020	Dr. Dhiraj Kumar
	"NABL Accreditation of			&
	ICAR Laboratories			Mrs. Alka Bharati
	A talk on Current Status	Webinar organized	20 th July,	Dr A K Handa
	and Future Roadmap of	by Mettupalayam	2020	
	Agroforestry Research &	Agroforestry		
	Development	Business Incubation		
		Forum, Forest		
		College and		
		Research		
		Institute, Mettupala		

	yam (TNAU)		
On line training programme on "Analysis of Experimental Data using R"	ICAR-NAARM, Hyderabad.	5 th to 11 th August,2020	Dr. H. Anuragi, Dr. Sushil Yadav, Mr. Sukumar Taria
Professional Attachment Training	ICAR-IGFRI, Jhansi	6 th August to 5 th November, 2020	Ms. Priyanka Singh
Biological Diversity Act, 2002: Part II (The Biological Diversity Rules, 2004)	National Biodiversity Authority and UNDP	19 th August, 2020	Dr. K Rajarajan
Webinar on "Farm Bill 2020: Understanding the Implications"	ICAR- Indian Agricultural Research Institute, New Delhi	26 th September, 2020	Ms. Priyanka Singh
Regional workshop on "Startups and entrepreneurship"	Central Agricultural University, Imphal	25 th to 27 th September, 2020	Ms. Priyanka Singh
Workshop cum training on "Intellectual Property Rights in Agriculture & Education in India	NAHEP&IPTMU, ICAR, New Delhi	12 th -28 th September,20 20	Dr. Inder Dev
Orientation training	ICAR-ICAR- CAFRI, Jhansi	22 nd June to 22 nd July, 2020	Ms. Priyanka Singh
Professional Attachment Training	ICAR-IGFRI, Jhansi	6 th August to 5 th November, 2020	Ms. Priyanka Singh
webinar in Drone Remote Sensing in Agriculture	Indian Society of Agrophysics	09.09.2020	Suresh Ramanan S
Organized a Webinar on Agroforestry	Central Agroforestry Research Institute	9 th November, 2020	Dr. AK Handa Dr K. Rajarajan, Dr. Asha Ram Dr. Sushil Kumar, Sh. Sukumar Taria Dr. J.R. Jat, Dr. S. Gunasekaran Dr S Panda Dr. Chhavi, Sirohi Dr. Vishnu, Sh. Suresh Ramanan
International webinar on "Recent Advances in Plant Biotechnology"	Pazhassi Raja College, Pulpally, Wayanad, Kerala	19 th December,20 20	

Peoples	Biodiversity	National		23 rd	Dr. K Rajarajan	
Registers		Biodiversity		December,		
_		Authority	and	2020		
		UNDP				
Microchip-b	ased tagging	World Agrofor	restry	22 nd	Dr.	1
of tree germ	plasm	(ICRAF)	-	December,	Arunachalam, Di	:.
				2020	AK Handa, Dr. k	
					Rajarajan	

Transfer

Dr. S B Chavan, Scientist (Forestry)

Dr. Dhiraj Kumar, Scientist (Soil Science)

Sh. Lal Chand, Scientist (Fruit Science)

Dr. A R Uthappa, Scientist (Agroforestry)

Promotion

Sh. S B Sharma, AF&AO promoted to the post of FAO at ICAR- Directorate of Rapeseed Mustard Research, Bharatpu(Raj.)

New Scientist

Mrs. M. Ashajyoti, Scientist (Pl. Pathology)

Swachh Bharat Abhiyan







Supervision and Guidance: Dr. A. Arunachalam, Director

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Tiwari

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