

# काजू समाचार CASHEW NEWS





भा.कृ.अनु.प.–काजू अनुसंधान निदेशालय, पुत्तूर के अर्धवार्षिक वार्तापत्र HALF YEARLY NEWSLETTER OF ICAR-DIRECTORATE OF CASHEW RESEARCH, PUTTUR

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# FROM THE DIRECTOR'S DESK

# Cashew Parlour: An effective way to bridge cashew farmers and consumers



The price fluctuation of raw cashew nuts is the major impediment in improving the income level of cashew farmers and hence their interest in cashew cultivation. This has also hampered the prospects of expansion of cashew cultivation in different parts of the country. In fact, all these years, farmers could not realize the potential benefits of cashew cultivation due to low price levels of raw cashewnuts. Though both domestic and export demands are on the raise in recent years, unfortunately, cashew farmer is still not able to perceive considerable enhancement in his income levels. This is definitely the result of higher profit margins claimed by middlemen and cashew processing sector coupled with policies related to import of raw cashew nuts.

It is an established fact that farmers can derive higher benefits if they sell fresh produce or value added products directly to consumers. However, location of the farm and socio-economic conditions of the farmers do not permit them to have direct access to consumers. In such a scenario, it is prudent to develop systems that make this connect feasible.

In many parts of the country, farmers' cooperatives already exist and recently, many Farmer Producer Organisations (FPOs) working on specific set of crops have been established. These cooperatives and FPOs are adding value to different produce of farmers and are marketing them through various retailers and online platforms. In addition to these, a new trend of showcasing and marketing all products of a single crop/set of related crops is emerging out in different parts of the country. For instance, Amla and Chikoo parlours in Maharashtra, Spice outlet in Calicut,



Millet cafe in Andhra Pradhesh, Traditional Cafe in Gadag of Karnataka etc. These selling points are strategically located in places such as highways, major markets etc. and run by farmer cooperatives. Of course, this is achievable only in crops in which a range of products are possible to be prepared by the farmers in a particular locality.

This opportunity can be profitably extended to cashew as well. Many cashew farmers in both traditional and non traditional areas are coming together to form FPOs and develop cooperative processing facilities. If these village level processing facilities and FPOs can be linked with direct selling points i.e. Cashew Parlours, it

will open new vistas in sustainable marketing of cashew value added products. Cashew Parlours will showcase all value added products of cashew i.e. whole kernel, products prepared from kernel, cashew apple RTS, syrup, jam, jelly, extrudes etc.

This is an arrangement where both farmers and consumers are benefited on a continuous basis and hence, the time is ripe to open as many cashew parlours as possible in all cashew growing areas of the country.

(M.G. NAYAK)
Director (Acting)

#### **FOCUS ON RESEARCH**

Apps/ software on cashew cultivation developed at ICAR-DCR, Puttur

# 1. Cashew India: an exclusive android application for cashew cultivation Mohana G. S. and M.G. Nayak

Smart phones have made inroads even into villages and in fact, it is increasingly realized that easy access to required information through these phones is possible. Now a days, more and more youngsters and even elders are deploying smart phones for their information needs. A lot of meaningful and continuous information exchange related to agriculture is happening via social media platforms in mobiles. Many Facebook and Whatsapp groups are active exclusively for agriculture related information exchange. This activity shows that farmers are really getting



benefit by accessing specific information for improving their efficiency in farming via these apps.

Applications (apps in short) are the integral part of smart phones. An app for cashew cultivation and related aspects would definitely speed up dissemination of information from research institutes to the stakeholders leading to increased production and productivity. It is possible to push and update information periodically through this app. Further, getting feedback from stakeholders is also easy with such an app in place. However, so far, there is no app for cashew cultivation developed in the country and hence the ICAR-Directorate of Cashew Research, Puttur has developed the 'Cashew India' app.

# Salient features of cashew India app:

 This app gives comprehensive information on cashew nursery, cultivation, plant protection, post harvest processing, market information





and e-market to the various stakeholders such as farmers, researchers, developmental agencies and processors at one place.

- Farmer/User can upload and store his own cashew images and videos in "My cashew" sub-section of 'Cultivation' section. It is also possible to record the expenditure, observations and data of the cashew farm.
- It is possible to order cashew grafts online from the research stations in a particular state in 'Planting Material' section.
- Farmers can give their buy/sell requirements in 'Market info' section.
- This app is developed for 10 states in India i.e. Gujarat, Maharastra, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Chattisgarh, Odisha, West Bengal and Meghalaya.

- This app is exclusively developed in 11 languages, i.e. Hindi, English, Gujarati, Marathi, Kannada, Malayalam, Tamil, Telugu, Oria, Garo and Bengali.
- Farmer/User can contact experts through 'Ask Expert' section.
- Real time chatting is possible in 'Chat Room' with the users who are using app at a given point of time.
- 'E-speak' button enables the app to read text for the user in different sections.

## **Technology Stack**

The following latest technologies in IT were deployed for developing this app.

- 1. Native Android Software Development Kit.
- 2. PHP Laravel Framework to develop the web admin panel and REST API for the application.
- 3. Linux Based / Windows Based Server which will run Apache2 server instance to host the web REST and Admin application.
- 4. Google Playstore to host app.

#### Mode of development

Design and technical content for the app is developed by ICAR- DCR, Puttur in collaboration with AICRP-Cashew centres spread across the country.

\*The app will be made available through Google Play Store soon for public use.

# 2. Offline software on Soil health card generator

# S. Mangalassery, M.G. Nayak, J.D. Adiga, P. Preethi, and B.M. Muralidhara

Soil testing is carried out to assess the soil fertility levels and it helps the growers in applying manures, fertilisers and soil amendments. The data obtained after undertaking soil analysis in the laboratory are interpreted and made available

in the form of a soil health card. A soil health card is a report on soil nutrient status provided by soil testing laboratories to the farmers and other stakeholders. It also contains the advisory on the quantity of fertilizers and other amendments to

be applied to the field. It helps farmers, extension officials, scientists and decision makers to monitor and improve soil health. The soil health cards need to be periodically updated. The soil are prepared by transferring the soil test data obtained by laboratory analysis into the format prescribed by the laboratory, Institute or the government. When dealing with a large number of samples, making the interpretation and transferring the data to the format manually become tedious, time consuming and prone to errors.

To avoid manual error in transferring laboratory data while preparing soil health card and errors in interpretation with respect to assigning the soil test rating, an offline software has been developed to generate the soil health card both in English and

Kannada. It enables to generate error-free soil

health card from the analytical results as single

and multiple pdf files. For using the software,

the laboratory staff need to upload the analytical

data in specified excel sheet format and choose

single or multiple pdf option available in the

software. The single pdf files can be issued as an

electronic copy to the individual farmer or can be

uploaded the website. This can be downloaded

Department of Agriculture & Cooperation Ministry of Agriculture & Farmers Welfare		Name of Laboratory   Soil Science Laboratory, ICA   DCR, Puttur			
Government of India	SOIL TEST RESULTS				
ICAR-Directorate of Cashew Research, Puttur, Karnataka	SI. No.	Parameter	Test value	Unit	Rating
227		pH			
		EC		dS/m	
Soil Health Card No.: DCR/	3	Organic carbon (OC)		%	
THE RESERVE OF THE PARTY OF THE	4	Available N		kg/ha	
Validity :	5	Available Phosphorus (P2O5)		kg/ha	
	6	Available Potassium (K2O)		kg/ha	
	7	Iron (Fe)		ppm	
ard No.	8	Manganese (Mn)		ppm	+
mber		71			
	-   J	Zinc (ppm)		ppm	
Hoolthy Soile	10	Copper (Cu)		ppm	
for	11	Boron (B)		ppm	
a Healthy Life	12	Molybdenum (Mo)		ppm	
	Ministry of Agriculture & Farmert Welfare Government of India ICAR. Directorate of Cashew Research, Puttur, Karnataka  Sail Health, Card.No.; DCR/ Date of Issue of Card: Validity  :  Healthy Soils for a Healthy Life	Ministry of Agriculture & Farners Welfare Government of India I.CAR. Directorate of Cashew Research, Puttur, Karnataka  2 Soil Health Card No.: DCR/ Date of inne of card: Validity  1 Healthy Soils for a Healthy Life 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ministry of Agriculture & Farmers Welfare Government of India ICAR. Directorate of Cashew Research, Puttur, Karnataka Sail Health, Card No.: DCR/ Date of time of card: Validity  1 pH 2 EC 3 Organic carbon (OC) Available Potassium (OC) 6 Available Potassium 7 Iron (G) 7 Iron (G) 1 mu (G) 1 Maganese (Ma) 9 Zinc (ppm) 10 Copper (Ca) 11 Boren (B) 12 Mobbdsneut (Mb) 12 Mobbdsneut (Mb) 12 Mobbdsneut (Mb)	Affaitry of Agriculture & Tameri Walfare   Government of India   I.C.A.R. Directorate of Cashew Research,   Puttur, Karnataka	Ministry of Agriculture & Farmern Walfare   Government of India   ICAR. Directorate of Cashew Research,   Puttur, Karnataka   Sail. Health, Karnataka   Sail. Health, Karnataka   Sail. Health, Card No.   DCR.     DCR. Puttur SOIL TEST RESULTS   DIR. Parameter   Test value     1

# **PROGRAMMES ORGANIZED**

## राजभाषा हिन्दी कार्यान्वयन

इस छ: माही में काजू अनुसंधान निदेशालय में हिन्दी कार्यान्वयन सिमित की दो बैठकों को आयोजन किया गया। बैठकों में कार्यालय में हो रही हिन्दी गतिविधियों के बारे में विचार – विमर्श कर आवश्यक सूचना सिमित की सदस्यों को दी गई। वार्षिक कार्यक्रम के अनुसार आवश्यक लक्ष्य प्राप्ती के लिए जरूरी कदम उठाने के बारे में चर्चा की गयी। जुलाई महीने में पुत्तूर नगर राजभाषा कार्यान्वयन सिमित की 34वीं अर्ध वार्षिक बैठक का आयोजन किया गया, जिसमें पुत्तर में स्थित विभिन्न सदस्य कार्यालय के प्रधान उपस्थित थे। उसी दिन सुबह से दोपहर तक सदस्यों के लिए हिन्दी कार्यशाला का आयोजन किया गया था। कार्यशाला में निदेशालय के सभी कर्मचारियों सहित विभिन्न सदस्य कार्यालयों से 45 कर्मचारियों ने भाग लिया।

निदेशालय में सितंबर 14-22 तक हिन्दी सप्ताह का आयोजन किया गया। इस अवसर पर कर्मचारियों और विद्यार्थियों के लिए विभिन्न प्रतियोगिता का आयोजन किया गया। श्रीमती कुसुमा वसंत, हिन्दी प्राध्यापिका, सरकारी महीला कालेज, पुत्तूर, हिन्दी सप्ताह का उद्घाटन किए। सप्ताह के अवसर पर विध्यार्थियों और कर्मचारियों को नकद पुरस्कार से सम्मानित किया गया।









दिनांक 18.12.2019 को परिषद से आए अधिकारी श्री एम.एल. गुप्ता, उपनिदेशक (राजभाषा) एवं श्री मनोज कुमार, ए.सी.टी.ओ. (राजभाषा विभाग) निदेशालय की हिन्दी कार्यान्वयन को निरीक्षण किए और आगे की कार्रवायी के बारे में मार्गदर्शन किए।

#### SWACHHTA HI SEWA

The fortnight programme of Swachhta Hi Sewa (SHS) campaign was conducted at ICAR-DCR, Puttur from 11<sup>th</sup> September, 2019 to 2<sup>nd</sup> October, 2019, which was followed by disposal of collected waste from 3<sup>rd</sup> October, 2019 till 27<sup>th</sup> October, 2019 as per the directives from Council and Department of Drinking water and Sanitation, Ministry of Jal Shakti. The focus of the programme was on 'Plastic waste Management and effective



ban of Single Use Plastics (SUP)'. Hence, theme of this year SHS is 'Plastic Waste Management'. Accordingly different SHS activities were taken up at ICAR- DCR, Puttur, its adopted villages and nearby places. A total of 480 kg of plastic waste was collected in 16 hours of Shramdan for proper disposal. A total of 287 participants comprising DCR staff, students of schools and college and public took part in this event.



#### **VIGILANCE AWARENESS WEEK -2019**

ICAR-Directorate of Cashew Research, Puttur organized the Vigilance Awareness Week -2019 from 28th October, 2019 to 2nd November, 2019. Sri Rudolph Peirera, Hon'ble 5th Additional District & Session Judge, Puttur, inaugurated the programme as Chief Guest of the function. In his inaugural address, Sri. Peirera stressed the importance of integrity in human life and requested all to do the right things in any situation. Sri Manjunatha, Hon'ble Principal Senior Civil Judge & ACJM and Chairman, Taluk Legal Services Committee, Puttur, was the Guest of Honour. Sri Suresh Rai Paddmbailu, Vice President, Bar Association, Puttur, Smt. Mamatha Suvarna, Joint Secretary, Bar Association, Puttur and Sri Bhaskara Kodimbala, Ex-President, Bar Association, Puttur were also present in the programme.



During the programme, resource person Sri. Suryanarayana N.K., Advocate, Puttur gave an inspirational talk on "Integrity-A way of Life". He mentioned that integrity is the sense of sincerity and there must be individuality. Indian constitution is the mother for all laws. As human beings, we should strive for all rights and dignities. The programme was presided over by Dr. M.G. Nayak, Director (Acting) of the institute. Smt. Harinakshi J. Shetty, Advocate, Bar Association, Puttur proposed vote of thanks.

#### CELEBRATION OF CONSTITUTION DAY

To create awareness about the Indian constitution especially the fundamental duties of the citizens different programmes were scheduled from 26<sup>th</sup> November, 2019 at ICAR-DCR, Puttur as per the directives of ICAR, New Delhi. The programme started with celebration of Constitution day on 26<sup>th</sup> November, 2019.



The Constitution day was celebrated at ICAR-DCR, Puttur in collaboration with District Legal Services Authority, Mangalore; Taluk Legal Services Committee, Puttur; Bar Association, Puttur; Government First Grade Women Degree College, Puttur and Vivekananda Law College, Puttur on 26th November, 2019 at 10.00AM. Dr. M.G. Nayak, Director (Acting), ICAR-DCR, Puttur welcomed the guests and audience, and gave the introductory speech of the function. Mr. Manjunath, Hon'ble Principal Sr. Civil Judge & ACJM, Chairman, Taluk Legal Services Committee, Puttur, DK set the tone for the function with his inaugural speech on the general aspects of the constitution and its present scenario in India. Then the pledge on 'Preamble' of Indian constitution was given to the audience by Sri. Prakash P.M., Principal Civil Judge & JMFC, Member Secretary, Taluk Legal Services Committee, Puttur, DK. The Guests of Honour Mr. Udayashankar Shetty, Advocate & Member, District Legal Services Authority, Mangalore; Sri. Manohar K.V., President, Bar Association, Puttur and Mr. Xavier D'Souza, Principal, Government First Grade College for Women, Puttur spoke on the occasion.



The resource person, Dr. B. K. Ravindra, Director of Legal Studies, Vivekananda Law College, Puttur spoke at length on the topic, "Significance of Indian constitution and citizens' duties". At the outset he defined the constitution, its need and how it was originated by giving examples from the medieval history, framing of the draft of Indian constitution

and key persons involved. Further, he explained how the amendments have been made in the constitution time to time and its implementation in the country by the Legislature, Judiciary and Executive. The programme was attended by more than 160 participants including the officials of Bar Association, Puttur, Press, students and staff of Government First Grade College for Women, Vivekananda Law College, the staff of ICAR-DCR, Puttur and public.

Further, as per the directives of the Council to organize month wise activities in connection to celebration of Constitution day, quiz competitions were conducted during December separately for the school students on 27.12.2019 and for ICAR-DCR staff on 31.12.2019.

#### **SWACCHATA PAKHWADA**

As per the directives of the ICAR, Swacchata Pakhwada was organised at this Directorate from 15th to 31st December, 2019 to create awareness amongst the staff and their family members on the necessity of maintaining cleanliness and approaches to dispose off the waste in a safe and eco-friendly manner. The activities conducted included cleanliness and sanitation drive in Ammunja village, residential area of ICAR-DCR, Puttur, Shantigodu campus wherein DCR staff, villagers and family members of DCR staff have participated. A demonstration was done on 'Composting of kitchen and home waste' in order to create awareness among staff. The composting technique using drums, mud pot or even plastic

technique using drums, mud pot or even plastic

bags was explained. A farmers' day was organized to discuss about the ground realities of cleanliness drive wherein farmers from Hatyadka village of Belthangadi taluk, D.K. and staff of the Directorate participated. A presentation on "Ancient and Modern Agriculture" was arranged exclusively for students of Government Higher Primary School, Mottethadka to make the younger generation aware about the developmental stages of agriculture and the recent advances which have facilitated in achieving food sufficiency. A quiz competition was also held for those students on both Swachha Bharat Mission and the Indian Constitution. The valedictory function and prize distribution was conducted on the final day of the Swacchata Pakhwada.



#### **MEETINGS CONDUCTED**

# Annual Group Meeting of Scientists of AICRP on Cashew

The Annual Group Meeting (AGM) Scientists of AICRP on Cashew was organized at the University of Horticultural Sciences (UHS), Bagalkot during 13th & 14th December, 2019. Dr. Indiresh K.M., Vice Chancellor of UHS, Bagalkot, Dr. N. Basavaraj, Director of Research, UHS, Bagalkot, Dr. W.S. Dhillon, ADG (Hort. Sci.), ICAR, New Delhi, Dr. M.G. Nayak, Director (Acting), ICAR-DCR, Puttur, Dr. S.I. Hanamashetti, Prof. of PMA, Vijayapur and Dr. Venkatesh N. Hubballi, Director, DCCD, Kochi had participated in the AGM. About 75 delegates including the scientists from the Coordinating Centres of AICRP-Cashew, scientists from ICAR-DCR, Puttur, invitees, Staff of UHS, Press and Media persons had participated in the Meeting. The Presidential address was delivered by Dr. K.M. Indiresh wherein, he mentioned the scope of cashew cultivation over other plantation and fruit crops in non-traditional areas of Karnataka and the requirement of transfer of technology to the enterprunering farmers. Dr. W. S. Dillion discussed about the development of Horticultural GDP and area expansion in recent years in India. He emphasized on innovative technologies in cashew cultivation which need to be adopted



for increasing the productivity of cashew. He also focused on undertaking studies on cashew rootstocks suitable for drought and salinity stress.

The Project Coordinator's report was presented by Dr. M.G. Nayak, wherein, he highlighted the activities taken up by 14 AICRP Cashew Centers. On this occasion, five publications from HRES, Hogalagere, CRS, Bhubaneswar and RRS, Jhargram were released. During the meeting, technical sessions on crop improvement, management and protection aspects were held along with an interaction session comprising of farmers, scientists, processors and officials from development departments.

# TRANSFER OF TECHNOLOGY

#### TRAININGS ORGANIZED

#### **Training programme on Cashew Nut Processing**

A training programme on 'Cashew Nut Processing' was organized at this Directorate during 23<sup>rd</sup>-27<sup>th</sup> September, 2019. In this training programme, five farmers from Karnataka, Tamil Nadu and Kerala were trained. The training programme was coordinated by Dr. Eradasappa E. Scientist (Plant Breeding) & I/c Extension. The training covered all aspects of cashew processing including cashew cultivation. Participants were given hands on training on various aspects of cashew processing and they visited two cashew processing units viz., Sree Venkateshwara Cashew Processors, Vittal,



a semi mechanized unit and Kalbavi Cashew Processors, Mangalore, a fully mechanized unit. Resource persons for the training programme included Dr. D. Balasubramanian, Principal Scientist (AS&PE), Dr. J. D. Adiga, Principal Scientist (Horticulture), Dr. P. Preethi, Scientist (Fruit science) and Mr. Subraya Pai, Shree Venkateshwara Cashew Processors, Vittal.

# RADIO/TV TALK

Dr. Eradasappa, E.	Participated in an interview in Kisan Vani programme on "Varietal Improvement in Cashew" on $11^{\rm th}$ November, 2019 at All India Radio, Mangalore which was broadcasted on $21^{\rm st}$ November, 2019.
Dr. T.N. Raviprasad	Participated in an interview in Kannada on "Integrated Pest Management in Cashew" in Kisan Vani from All India Radio, Mangaluru on $20^{\rm th}$ November, 2019.

# **ADVISORY VISITS / CONSULTANCIES/ TALK**

Dr. Eradasappa, E.	Participated as resource person and delivered a talk on 'Cashew cultivation practices' in Farmers Field School organized by SKDRDP at Mundoor Village, Puttur Taluk, Dakshina Kannada.	04.07.2019			
	Delivered a talk on "Institutional services available at DCR for the input dealers, farmers and other stake holders" to the students of Diploma in Agricultural Extension Services at KVK, Mangalore.	07.09.2019			
	As Scientist In-charge (Extension) involved in explaining the activities of the Directorate to the diverse group of visitors.				
Dr. Mohana, G.S.	Delivered a talk on "Cashew Cultivation practices" at Punacha Cooperative society Hall at Punacha villege, Dakshina Kannada. The program was organised by IFFCO, Bangalore, Punacha Cooperative Society, Punacha and ICAR-Directorate of Cashew Research, Puttur.	18.07.2019			
	Participated and made a presentation on "Role of media in science communication" in Science communication workshop at CFTRI, Mysore.	20.09.2019 & 21.09.2019			
	Made presentation on "Agriculture related mobile apps for youths" during Anveshana: Agri Tinkering fest organised by Vivekananda Vidyavardhaka Sangha at Vivkeananda English Medium school, Tenkila, Puttur.	11.12.2019			
Dr. Shamsudheen M.	Made a diagnostic visit to a farmer's field in Gokak, Belagavi and provided suggestions to the farmer based on the field visit and after soil and plant sample analysis.	07.11.2019			
Dr. Shamsudheen M. & Mr. K. Muralikrishna	Visited cashew plantations of Karnataka Cashew Development Corporation (KCDC) near Aryapu, Puttur taluk, Dakshina Kannada for assessing the condition of rainwater harvesting activities undertaken by the corporation and its impact, and submitted the report to Deputy Commissioner & District Magistrate, Dakshina Kannada district, Karnataka.	03.12.2019			
Dr. M.G. Nayak and Dr. Mohana G.S.	Visited cashew farmers' plantations at Gadag and Savadatti, Balgaum district, Karnataka for giving advise on cashew production aspects.	16.12.2019			

#### **EXHIBITION**

#### Jal Sakthi Abhiyan-2019

ICAR-DCR, Puttur participated in Jal Sakthi Abhiyan-2019 conducted at ICAR-Central Plantation Crops Research Institute (CPCRI), Kasargod on 2<sup>nd</sup> October, 2019. Dr. Preethi, P., Mr. Muthuraju, Mr. Vijay Achari and Mr. Nagesh had participated in the exhibition and put up an exhibition stall showing the technologies related to production technology, soil and water conservation developed by this Directorate. The stall was visited by more than 1000 diverse beneficiaries such as farmers of Karnataka and Kerala, Students, Researchers, Processors and general public.



#### Kisan Mela and Agri-Expo

ICAR-DCR, Puttur participated in Kisan Mela and Agri-Expo during 12-13<sup>th</sup> October, 2019 held at ICAR-CPCRI, Research Station, Kidu organized by ICAR-CPCRI, Kasaragod. A team consisting of Dr. Eradasappa, E., Mr. K. Muralikrishna, Mr. Raghuram Kukkude, Mr. Chidananda and Mr. Nagesh had participated and displayed the exhibited different technologies of ICAR-DCR in the exhibition. More than 500 farmers visited the stall and extension leaflets on cashew cultivation aspects were distributed to needy farmers.



#### TECHNICAL PUBLICATIONS/ EXTENSION LITERATURE

#### **Technical Bulletin**

K. Vanitha and T.N. Raviprasad. 2019. Pollinators of cashew, their foraging behaviour and conservation measures. ICAR - DCR Technical Bulletin No. 30, ICAR-Directorate of Cashew Research, Puttur, Karnataka. 33 p.

#### **Extension folders**

Nayak, M.G., Preethi, P., Muralidhara, B.M. and Shamsudheen, M. 2019. Training, pruning and aftercare in cashew. ICAR-Directorate of Cashew Research, Puttur, Karnataka, India [Extension leaflet-English]. September, 2019.





#### **Customised instruction materials**

- Mangalassery, S., Preethi, P., Savadi, S. and Muralidhara, B.M., 2019. The use of software on nutrient management in cashew, Customised instruction material No. 1/2019 (15<sup>th</sup> August 2019). ICAR-Directorate of Cashew Research, Puttur, Karnataka, India, pp. 10.
- Mangalassery, S., Preethi, P., Savadi, S. and Muralidhara, B.M., 2019. The use of mobile App "Cashew nutrient manager", Customised instruction material No.2/2019 (15<sup>th</sup> August 2019). ICAR-Directorate of Cashew Research, Puttur, Karnataka, India, pp. 10.

# **DISTINGUISHED VISITORS**

Name	Address	Date of visit	
Sri. Rudolph Peirera	Hon'ble 5 <sup>th</sup> Additional District & Session Judge, Puttur	28.10.2019	
Sri. Manjunatha	Hon'ble Principal Senior Civil Judge & ACJM and Chairman, Taluk Legal Services Committee, Puttur		
Sri. Suresh Rai Paddmbailu	Vice President, Bar Association, Puttur		
Sri. Bhaskara Kodimbala	Ex-President, Bar Association, Puttur		
Sri. Suryanarayana, N.K.,	Advocate, Puttur	02.11.2019	
Mr. Manjunath	Hon'ble Principal Sr. Civil Judge & ACJM, Chairman, Taluk Legal Services Committee, Puttur, DK		
Sri. Prakash, P.M	Principal Civil Judge & JMFC, Member Secretary, Taluk Legal Services Committee, Puttur, DK	26.11.2019	
Mr. Udayashankar Shetty	Advocate & Member, District Legal Services Authority, Mangalore		
Sri. Manohar, K.V.	President, Bar Association, Puttur		
Sri. Xavier D'Souza	Principal, Government First Grade College for Women, Puttur		
Dr. B. K. Ravindra	Director of Legal Studies, Vivekananda Law College, Puttur		
Dr. K.V. Peter	Former Vice Chancellor, Kerala Agricultural University, Trissur	09.12. 2019	
Sri. Jagadish Rane	Director (Acting) ICAR-National Institute of Abiotic Stress Management (NIASM), Baramati, Maharashtra.		
Dr. Vikramaditya Pandey	Principal Scientist, SMD (Hort. Division), ICAR, KAB-II, New Delhi	10.12.2019	
Dr. Reju M. Kurian	Principal Scientist (Hort.), IIHR, Bengaluru		
Dr. K.S. Shivashankara	Principal Scientist (Division of Plant Physiology and Biochemistry) IIHR, Bengaluru	09.12.2019	
Dr. Kanhaiya Singh	Principal Scientist (Hort.), IARI, New Delhi	09.12.2019 & 28.12.2019	
Dr. Akshay Talukdar	Principal Scientist (Genetics and Plants Breeding), IARI, New Delhi	09.12.2019	
Dr. S.B. Dandin	Former Vice-Chancellor, University of Horticultural Sciences, Bagalkot	09.12.2019 & 28.12.2019	
Dr. P.S. Bhat	Principal Scientist (Agricultural Entomology), IIHR, Bengaluru		
Dr. N.K. Krishnakumar	Former DDG (Hort.), ICAR and Regional Representative (South Asia), Bioversity International, New Delhi	10.12.2019	
Dr. N. Bakthavatsalam	Principal Scientist (Agricultural Entomology), NBAIR, Bengaluru		
Dr. M.K. Rajesh	Principal Scientist (Biotechnology), CPCRI, Kasaragod	28.12.2019	
Dr. Selvi A.	Principal Scientist (Biotechnology), Sugarcane Breeding Institute, Coimbatore		
Dr. V.S. Korikanthimath	Former Director, ICAR Research complex, (presently CCARI), Goa.	29.12.2019	

## Supply of planting material

The grafts of recommended high yielding cashew varieties are regularly produced at this Directorate under institute revenue generation programme, and a total of 98,993 grafts were supplied to the farmers and developmental agencies from this Directorate during July-December, 2019.

# HONOURS/RECOGNITIONS/AWARDS

#### Institutional

- Bhaskara, the popular cashew cultivar of ICAR-DCR, Puttur was granted the registration number 207 of 2019 on 6<sup>th</sup> December, 2019 by the Protection of Plant Varieties and Farmers Rights Authority (PPV FRA), New Delhi.
- The cashew nursery of ICAR-DCR, Puttur was granted the IV star rating (Certificate No. KNCAPU4919) by the Directorate of Cashewnut and Cocoa Development, Kochi with effect from 13<sup>th</sup> October, 2019.

#### Staff

- ◆ Dr. Siddanna Savadi was awarded the Young Scientist Award 2019 by Society for Biotic and Environmental Research (SBER) on 27<sup>th</sup> July, 2019 during the National conference held at Sona College, Salem, Tamil Nadu
- ◆ Invited as a Jury member for the State Level Agri-Tinkering Fest-Anveshana-2019 held at Vivekananda English Medium School on 30<sup>th</sup> November, 2019 and 1<sup>st</sup> December, 2019.
- Dr. K. Vanitha was recognized as a PG Teacher in the Discipline of Agricultural Entomology at University of Horticultural Sciences, Bagalkot, Karnataka w.e.f. 7th July, 2019.
- Invited as a Jury member for the State Level Agri-Tinkering Fest- Anveshana-2019 held at Vivekananda English Medium School on 30<sup>th</sup> November, 2019 and 1<sup>st</sup> December, 2019.



◆ Invited as a speaker for the 'National conference on current trends in Entomology and insectplant interactions' conducted on 11-12<sup>th</sup> September, 2019 at St. Aloysius College (Autonomous), Mangalore.





Agrisearch with a human touch

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