



# काजू समाचार CASHEW NEWS

भा.कृ.अनु.प. – काजू अनुसंधान निदेशालय, पुत्तूर के अर्ध वार्षिक वार्ता पत्र  
HALF YEARLY NEWSLETTER OF ICAR-DIRECTORATE OF CASHEW RESEARCH, PUTTUR

Vol. 25, No. 2

July-December, 2020

## FROM THE DIRECTOR'S DESK

### Cashew Museum: an Impressive Showcase of the Crop in Entirety

Due to the perennial nature of cashew and its seasonality of production, providing field exposure on all aspects is difficult during a particular visit of farmers to the research organizations. This necessitated the need for a modern Plant Health Clinic/ Museum (PHCM) on cashew with the help of modern information and communication technologies. This facility can provide one-stop point for dissemination of cashew related technologies to farmers, students, researchers and other stakeholders. Hence, a state of the art cashew museum was recently established with the support of Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sector Rejuvenation (RKVY-RAFTAAR), Govt. of Karnataka at the ICAR- Directorate of Cashew Research, Puttur.



The museum cum plant health clinic has been developed with many unique and interesting features. The kiosk in the museum provides relevant information about cashew cultivation and processing. The plant health aspects can be learnt with the images and videos in the kiosk through different custom made software for pest attack, disease incidence and nutrient deficiency symptoms along with options for their management. The digital display frames provide information on all aspects of cashew cultivation, management, processing and value addition through videos. Digital translates/ bromides are illuminated films or transparencies lit from behind or above, which provide information on various facets of development and care required for cashew orchards. Press button information board helps to learn about different attributes of popular varieties of cashew.



Further, the storytelling boards present information in an appealing audiovisual format. Scrolling translates help to increase the linguistic capacity of the museum where information in all possible languages is provided. The sample enclosures showcase specimens, samples and models of different items related to cashew. Another interesting aspect in the museum is the mural painting that depicts the elements of historical and current events of cashew crop.



It is hoped that this museum will be a visual treat to the visitors, a knowledge bank of cashew crop and cater to the diagnostic needs of visitors. This cashew museum surely enthral the visitors with long-lasting memory of an interactive tool for learning.

  
(ANITHA KARUN)  
Director (Acting)

## FOCUS ON RESEARCH

### NRC- 492: A Novel Dwarf Cashew Variety

M.G. Nayak, Mohana, G.S. and Eradasappa E.  
ICAR- Directorate of Cashew Research, Puttur.

Cashew (*Anacardium occidentale* L.) is generally tall and vigorous growing tree with spreading branches and it consumes large land area for its cultivation and economic yield. However, pruning attempts in different varieties at the ICAR- Directorate of Cashew Research have resulted in identification of varieties that are responsive to pruning such as VRI-3, H-130 and NRCC Selection -2 and eventually their suitability to high density planting systems. These varieties have been profitably deployed in high and ultra high density planting systems by farmers in different parts of the country. Nevertheless, farmers need to severely prune these varieties every year to economically maintain their orchards and this is a labour intensive practice.



The drudgery of pruning in high density planting systems can be reduced to a greater extent by introducing genetically dwarf varieties. However, the country was hitherto lacking dwarf cashew genotypes and for the first time, the Directorate has come up with the identification of a dwarf cashew accession NRC- 492 (Netra Vaman). This was evaluated for over ten years and recently it is approved for release for cultivation in Karnataka region. This dwarf genotype was selected from the seedling progenies. Upon characterisation and evaluation, its slow growth and dwarf character were confirmed. The accession was subsequently conserved and evaluated in the National Cashew Field Gene Bank at the Directorate. The salient features are given in the Table 1.

Table 1: Features of NRC-492 as per Cashew Descriptor

Character	Particulars
Tree height (10 <sup>th</sup> year)	2.5 m (dwarf)
Tree spread (10 <sup>th</sup> year)	6.0 m (Intermediate)
Internodal length	0.9 cm (Short)
Duration of flowering	Precocious flowering, Long duration (>90 days)
Nut weight	5.5–6.0gm (Intermediate)
Apple weight	50 gm (Medium)
Cashew apple skin and colour	Glossy, red colour, crispy and less fibrous
Special character	Stem galling
Yield	1.0–1.5 kg (4 <sup>th</sup> year of planting)
Cumulative yield (6 harvests)	9.1 kg



The accession suits well for ultra density planting system (2.5 x 2.5 and 3.0 x 3.0 m spacing). When compared to varieties which are suitable for ultra density planting, this variety does not require much pruning. It can be maintained with minimum pruning and trimming as orchard management practice. The genotype is also observed performing fairly well under partial shaded conditions and thus it may be suitable for under planting in widely spaced coconut plantations where there is more than 50-60% sunshine penetration. The genotype is

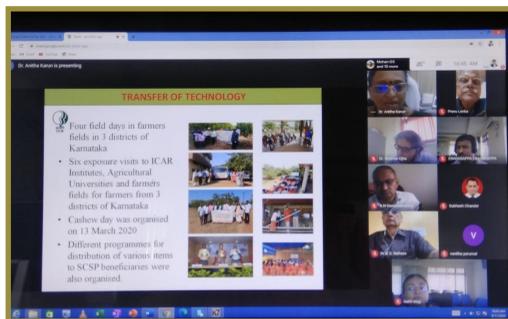
moderately susceptible to major pest of cashew *i.e.*, tea mosquito bug (TMB) like any other cashew variety but it is easier to take plant protection sprays as plants are dwarf in nature. The variety is also amenable for homestead and terrace gardens, and for bonsai cultivation.

It is hoped that this variety brings in a new interest in cashew cultivation to increase the production of cashew

## MEETINGS CONDUCTED

### Research Advisory Committee (RAC)

The third meeting of 8<sup>th</sup> RAC was held on 11<sup>th</sup> September, 2020 on virtual platform with the welcome address by Dr. Anitha Karun, Director (Acting), ICAR-DCR, Puttur. She presented the research highlights of ICAR-DCR for the year 2019-20 including administrative aspects. Dr. D.S. Rathore, Chairman, RAC in his introductory remarks emphasized about improving the profitability of stakeholders through input use efficiency. Members of RAC suggested on the need to develop good agricultural practices for cashew, adoption of technologies in mango *viz.*, rock planting, soil management models, conservation horticulture for cashew, IPM modules for cashew pest management, influence of climate change, developing specialized strategy for cashew extension etc. Dr. S.N. Ojha remarked that All India Cashew Extension Network can be established by DCR and cashew map for extension can be prepared. Dr. B.K. Pandey, ADG (Hort.) mentioned that KVKs should be utilized for village development. Thereafter, action taken report on the previous RAC was presented by Dr. J. Dinakara Adiga, Member Secretary (RAC). Subsequently, presentations on progress of research were made by the scientists of DCR including new project proposals. Based on the presentations and discussions, the RAC made recommendations and suggestions.



### ITMC meetings

During the period, 16<sup>th</sup> Institute Technology Management Committee (ITMC) meeting was held on 21<sup>st</sup> September, 2020 under the Chairmanship of Director (Acting), ICAR-DCR. A total of seven

technologies *viz.*, Cashew apple RTS juice, Cashew apple jam, Cashew apple jelly, Cashew apple cider, Cashew apple crisp, Cashew nut sprout products and Cashew hybrid H-130 were recognized for commercialization during 2020. ITMU also facilitated a patent process. A hearing of patent filed by ICAR-DCR on 'Rotating drum roasting machine for raw cashewnuts' is being called on 27<sup>th</sup> January, 2021 by The Indian Patent Office, Chennai.



## Institute Research Council (IRC)

The 33<sup>rd</sup> annual meeting of IRC of ICAR-DCR, Puttur was held on 12- 13<sup>th</sup> October, 2020 under the Chairmanship of Dr. Anitha Karun, Director (Acting). Technical sessions were chaired by experts of the field: Dr. M. Sankaran, Principal Scientist (Fruit Science), Division of Fruit Crops, ICAR-IIHR, Bengaluru for Crop Improvement, Dr. H. P. Maheshwarappa, Project Co-ordinator (Palms), ICAR-CPCRI, Kasaragod for Crop Management, Dr. A.N. Shylesha, Principal Scientist (Entomology), Division of Germplasm Conservation and Utilization, ICAR-NBAIR, Bengaluru for crop protection, Dr. V. Palanimuthu, Professor, Research Engineer and University Head (Ag. Engg.), AICRP (PHET), UAS, GKVK, Bengaluru for post harvest technology and Dr. Anithakumari, P., Principal Scientist (Ag.

Extension), ICAR-CPCRI (RS), Kayamkulam and Dr. Chandran, K.P., Principal Scientist (Ag. Statistics), Division of Social Sciences, ICAR - CPCRI, Kasaragod for transfer of technology sessions. In each session, results of various ongoing projects were presented along with new project proposals by the scientists of DCR and the technical programme for 2020-21 was finalized. Dr. E. Eradasappa, Member Secretary (IRC) proposed vote of thanks.



## Annual group meeting of AICRP on cashew

The Annual Group Meeting (AGM) of Scientists of AICRP on Cashew was organized on a virtual platform during 18-19<sup>th</sup> December, 2020. Dr. Anitha Karun, Director (Acting) welcomed all the delegates and presented the project coordinator's report. During the inaugural address, Dr. B.K. Pandey, ADG (Hort-II.), ICAR, New Delhi expressed his concern about increasing the production and productivity of cashew for doubling the farmers' income. During the technical sessions, scientists from different AICRP centers on cashew presented their research. The technical session on 'Crop Improvement' was chaired by Dr. Niraj, V., Principal Scientist, ICAR-CPCRI and co-chaired by Dr. M.S. Aneesa Rani, Professor, Dept. of Fruit Science, TNAU, Coimbatore followed by 'Crop Management' session which was chaired by



Dr. V.S. Korikanthimath, Former Director, ICAR-CCARI and co-chaired by Dr. J.D. Adiga, Principal Scientist, ICAR-DCR. The 'Crop Protection' Session was chaired by Dr. Kesavan Subaharan, Principal Scientist (Ento.), NBAIR and co-chaired by Dr. Joseph Rajkumar A., Principal Scientist, ICAR-CPCRI. Thereafter, 'interactive session' was chaired by Dr. Venkatesh Hubballi, Director, DCCD, Kochi wherein farmers, scientists, processors and officials from other development departments had participated.

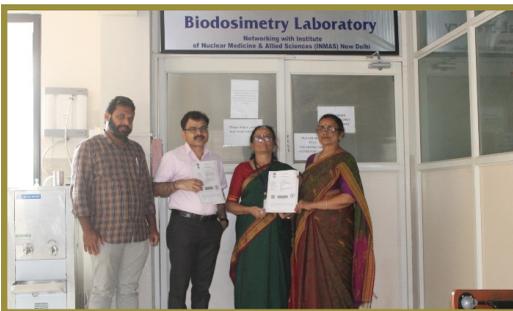
The session on 'variety release proposal' was chaired by Dr. A.K. Singh, Deputy Director General (Horticulture), ICAR, New Delhi. He reiterated the importance of cashew research and called for formation of farmer producer organizations (FPOs) in cashew. During the session, Dr. M. G. Nayak, Principal Scientist (Horticulture) presented the proposal on a new dwarf variety NRC-492 and after thorough discussion, it was approved for release. The AGM was concluded with vote of thanks by Dr. Mohana G.S., Principal Scientist and Scientist-in-charge, PC Cell.

### Agribusiness Incubation

An Agri Business Incubation (ABI) under National Agricultural Innovation Fund (NAIF), ICAR, New Delhi has become operational at this institute. Cashewnut processing is promoted through five different models *viz.*, custom hiring, innovative technology development, detailed project report, value addition and consultancy for specific industrial problems. Three incubatees have registered with ABI and utilized State-of-the-Art processing facility on the basis of 'Custom hiring'. During this phase, provided mentorship to incubatees on technical, management and market aspects. Besides, an online training program was organized for 'Tribal Women' operating cashewnut processing unit in Jagadalpur, Chhattisgarh from 9-15 July, 2020. An amount of Rs 54,350/- has been generated through ABI services till date.



### ICAR-DCR inks MoU with K.S. Hegde Medical Academy under NITTE



The ICAR-DCR, Puttur signed a Memorandum of Understanding with the K.S. Hegde Medical Academy under NITTE, Mangaluru on 24<sup>th</sup> December 2020. With the MoU, ICAR-DCR and NITTE have agreed to share the research facilities and infrastructure for specific research activities on health benefits of cashew based value added products.

## PROGRAMMES ORGANIZED

### Programmes under SCSP scheme

To promote cashew cultivation, 6,400 cashew grafts were supplied to 41 farmers belonging to Scheduled Caste including 24 from Gadag, 11 from Kodagu and six from Dakshina Kannada districts.

All of them were provided with 100 per cent financial aid during December 2020 for establishment of cashew plantations by direct benefit transfer. Besides, livelihood support through supply of cow heifers, cow mats, Desi lambs and agricultural implements were extended for the SCSP applicant farmer beneficiaries from Kodagu, Dakshina Kannada, Gadag, and Chitradurga districts.



## Programmes under TSP scheme

STC/TSP project was implemented by this Directorate for the benefit of Scheduled Tribe population from different parts of Dakshina Kannada to improve their livelihood by supporting agricultural and self employment activities and also encouraged the use of sustainable energy sources like solar light. Establishment of six cashew orchards by the farmers was supported under this scheme during this period. The machineries such as sewing machine, weed cutting machine and daily used items like solar lights requested by the TSP applicants are being procured for the beneficiaries. The scheme also supports poultry rearing.



## Celebration of Constitution Day – Activities

According to the directives of the Council, various activities related to constitution day celebrations have been taken up since November, 2019. During July-December, 2020, the banner Pledge Sign Board specific to Constitution Day was displayed at office premises and entries were made to show



Signing the banner pledge

the commitment towards fundamental duties. Besides, the standees on fundamental duties were kept in the office premises for the general awareness. An essay writing competition related to Indian Constitution was held for the staff of ICAR-DCR and their family members. Subsequently as per the guidelines of ICAR, the staff of this directorate joined with the Hon'ble President of India for reading of 'Preamble of Indian constitution' in the main conference hall on 26<sup>th</sup> November, 2020 through DD News. The staff had actively participated in the year long programme.

## Vigilance Awareness Week

ICAR-DCR, Puttur celebrated the vigilance awareness week from 27<sup>th</sup> October - 2<sup>nd</sup> November, 2020. On 27<sup>th</sup> October, 2020, integrity pledge was taken by the staff members and general public. Posters on the theme "Satark Bharat, Samriddh Bharat" (Vigilant India, Prosperous India) were displayed and a special webpage on vigilance related activities was created to sensitise the people. The valedictory function was held at this the Directorate on 02<sup>nd</sup> November, 2020, observing the COVID protocol. Dr. Shamsudheen Mangalassery, Senior Scientist & Vigilance Officer, ICAR-DCR, Puttur welcomed the gathering. The programme was inaugurated by Shri. Manjunatha, Hon'ble Principal Senior Civil



Judge & ACJM and Chairman, Taluk Legal Services Committee, Puttur. He stressed the need to be vigilant to make India prosperous. Sri. Manohar. K.V, President, Bar Association, Puttur emphasised that DCR should be a role model organisation in terms of transparency.

The resource person, Adv. Mahesh Kaje, Puttur, delivered a special talk on the theme “Satark Bharat, Samridhd Bharat”. He mentioned that one has to inculcate self-satisfaction, self-determination and self-consciousness. The programme was presided

over by Dr. Anitha Karun, Director (Acting) of the Directorate. She highlighted that various initiatives by the Govt. of India especially digital means are helping to bring more transparency in official dealings. During the occasion, Shri. Suresh Rai, Vice President & Shri. Manjunatha, N.S, Secretary, Bar Association, Puttur were also present. Shri. T.E. Janardhanan, Administrative Officer, ICAR-DCR, Puttur proposed vote of thanks.

**Swaccha Bharat activities**



ICAR-DCR, Puttur has observed “Swachhta Pakhwada” from 16<sup>th</sup> -31<sup>st</sup> December, 2020 by conducting various day-wise activities as per the guidelines of the Council following COVID-19 protocol. On 16<sup>th</sup> December, 2020, Swachhta pledge was administered to all the staff of DCR by Dr. J.D. Adiga (Nodal Officer, Swachh Bharat, ICAR-DCR,). The different activities taken up include training on e-office implementation, sanitization and cleaning

(of institute premises, women cell, residential area, play ground, children’s park and residential park), quiz, debate competition, organization of Kisan Diwas, talk on ‘Recycling of waste water and water harvesting structure of agriculture/horticulture’ and address by VIP on ‘Waste Management’. Prizes and certificates were distributed to the winners of different competitions on the valedictory day.

**Kisan Diwas**

On 23<sup>rd</sup> December, 2020, “Kisan Diwas” was organized at ICAR-DCR following COVID guidelines. Dr. E. Eradasappa, Scientist (Plant Breeding) welcomed the gathering. The programme was chaired by Dr. Raviprasad, T. N. Principal Scientist (Ag. Entomology) and Dr. J. D. Adiga, Principal Scientist (Hort.) & Nodal Officer (Swachha Bharat). Mr. Manikandan, Sr. Technical Officer of ICAR-DCR delivered a speech on ‘Eco-friendly operation of pesticide application in the field and precautions to be taken before the spray’. Dr. Raviprasad, T.N. emphasized on farmers’ role in the



economy of our country. Dr. J. D. Adiga stated about the importance of reducing plastic in farming and in day-to-day life and emphasized on farm machineries. Pruning knife, secateurs, cow mat and grafts of cashew and coconut saplings were distributed to the farmers during the occasion. Mr. Raghuram Kukkude, Sr. Technical Officer delivered vote of thanks. A total of 30 farmers from Dakshina Kannada district participated in the event.

### Hindi Week - 2020 (राज भाषा सप्ताह)

इस वर्ष कोविड-19 महामारी के कारण राजभाषा हिन्दी के गतिविधियों पर भी असर पड़ा। सामान्य रूप से जिन बैठक और कार्यक्रम आयोजन की जानी थी उसे रोकना पड़ा और हिन्दी सप्ताह को भी बहुत सरल रूप में आयोजन किया गया। हिन्दी सप्ताह के मौके पर स्कूल विद्यार्थियों को आनलाईन हिन्दी प्रतियोगिता आयोजन किया गया था। दिनांक 29.09.2020 को हिन्दी सप्ताह का समापन समारंभ को गूगल मीट द्वारा आयोजन किया गया। डा. अनिता करुण, प्रभार निदेशक, डी.सी.



आर. पुन्नूर, समारंभ के मुख्य अतिथी थे। विद्यार्थियों के लिए घोषित पुरस्कारों को उनके विद्यालय में मुख्य अध्यापकों को हस्तांतरित किया गया, ताकी उन्हें सही समय पर उसे विद्यार्थियों को दे सके।

## TRANSFER OF TECHNOLOGY

### Advisory Visits / Consultancies/ talks delivered

Dr. M.G. Nayak	Delivered a talk on 'Cashew varieties and improved cashew cultivation practices' on virtual platform to the Maha Caju Growers Association.	18 <sup>th</sup> August, 2020.
	Participated in 188 <sup>th</sup> Board meeting of Karnataka Cashew Development Corporation (KCDC) in the capacity of Director of KCDC, Ltd., Mangalore on virtual platform.	12 <sup>th</sup> August, 2020.
	Participated in 189 <sup>th</sup> Board meeting of KCDC in the capacity of Director of KCDC, Ltd., Mangalore on virtual platform.	20 <sup>th</sup> November, 2020.
	Participated in 42 <sup>nd</sup> Annual General Meeting of the share holders of KCDC, Ltd., Mangalore in virtual platform.	20 <sup>th</sup> November, 2020.
	Delivered a talk on 'Establishment and management of cashew orchards' on virtual platform to Agricultural Information.com (publisher of Agriculture and Industry Survey Magazine).	24 <sup>th</sup> December, 2020.
Dr. J.D. Adiga	Delivered an invited talk on 'Breeding cashew for novel traits' during international e-Conference on 'Advances and future outlook in Biotechnology and Crop improvement for sustainable productivity' organized by UHS, Bagalkot.	24-27, November, 2020.
	Acted as a resource person in the Training programme to farmers on 'Improved production practices of cashew' held at College of Horticulture, Mudigere.	4 <sup>th</sup> December, 2020.



Dr. Mohana, G.S.	Delivered an invited talk on 'Advances in Cashew breeding' in the Webinar organised by the Department of Botany, St. Aloysius College, Mangalore through Google Meet.	16 <sup>th</sup> June, 2020.
	Delivered a talk on 'Cashew cultivation' at Saraswathi Vidyalaya, Kadaba, Dakshina Kannada in Udyoga Nypunya Tarabeti Shibira.	28 <sup>th</sup> September, 2020.
	Delivered a talk on 'Cashew cultivation' at Bharathi Higher Primary School, Aalankaru, Dakshina Kannada in Udyoga Nypunya Tarabeti Shibira.	3 <sup>rd</sup> December, 2020.

## Technical publications/ extension literature

### Extension folders/bulletin/ Pamphlets

Mangalassery, S., Nayak, M.G., Preethi, P. and Muralidhara, B.M. 2020. Mobile App on "DCR – Cashew Nutrient Manager". ICAR-Directorate of Cashew Research, Puttur, Karnataka, India, [Extension leaflet-English]. 10 July 2020. [http://krishi.icar.gov.in/jspui/handle/123456789/38625].

Mangalassery, S., Nayak, M.G., Preethi, P. and Muralidhara, B.M. 2020. Software on nutrient management in cashew. ICAR-Directorate of Cashew Research, Puttur, Karnataka, India, [Extension leaflet-English]. 10 July 2020. [http://krishi.icar.gov.in/jspui/handle/123456789/38626].

Mangalassery, S., Nayak, M.G., Preethi, P. and Muralidhara, B.M. 2020. Offline software on soil health card generator. ICAR-Directorate of Cashew Research, Puttur, Karnataka, India, [Extension leaflet-English]. 10 July 2020. [http://krishi.icar.gov.in/jspui/handle/123456789/33847].

Vanitha, K, T.N. Raviprasad and Preethi, P. 2020. Tea mosquito bug management in cashew. (In Tamil), E-publication no. 4/2020, ICAR-Directorate of Cashew Research, Puttur, pp. 1-8

### E-extension through social media / mobile app/website

ICAR- DCR, Puttur has recently developed the "Cashew India" App for cashew farmers and other stakeholders of cashew in India. Available in Google Play Store, this is an innovative app for everyone interested in cashew farming. The app was saturated with data sets from different AICRP centers under different languages during the year. A total of 11,606 grafts have been booked via the app as on 31<sup>st</sup> December, 2020 by cashew farmers. The Google Play store rating of the app is 4.3 and the app has been downloaded by 1991 different users.

## COMMERCIALIZATION OF ICAR-DCR TECHNOLOGIES

- M/s Annai Velankanni Nursery, Vriddhachalam, Tamil Nadu signed MoU for non-exclusive licensing of 'H-130: Cashew hybrid' technology on 15<sup>th</sup> July, 2020.
- Rotating drum roasting machine technology was licensed to M/s Abhay Engineers, Mangaluru on Non-exclusive licensing basis on 13<sup>th</sup> October, 2020.



Signing of MoU with M/s Annai Velankanni Nursery



Signing of MoU with M/s Abhay Engineers, Mangaluru

## VISIT OF DIGNITARIES

Mr. Manjunatha	Hon'ble Principal Sr. Civil Judge & ACJM, Chairman, Taluk Legal Services Committee, Puttur, DK.	02.11.2020
Sri. Manohar, K.V.	President, Bar Association, Puttur	
Sri. Mahesh Kaje	Advocate, Puttur	
Shri. Suresh Rai,	Vice President, Bar Association, Puttur	
Shri. Manjunatha, N.S.	Secretary, Bar Association, Puttur	
Dr. Rajesh Bejjangala	Director (Kannada Division), Kannur University.	30.12.2020

## 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 1,02,047 grafts were supplied to the farmers and developmental agencies from this Directorate during this year, in which 3,246 grafts were supplied during July-December, 2020.

## STAFF NEWS

### Joining

**Dr. Anitha Karun**, Director (Acting), CPCRI, Kasargod has taken charge of Director (Acting) of ICAR-DCR, Puttur since 17<sup>th</sup> August, 2020.



### Promotion

**Dr. G.S. Mohana**, Senior Scientist (Genetics and Cytogenetics) has been promoted to Principal scientist (Genetics and Cytogenetics) w.e.f. 24<sup>th</sup> April, 2018.



### Appointment

**Dr. V. Thondaiman**, Scientist (Spices, Plantation, Medicinal and Aromatic Plants) joined this Directorate on 17<sup>th</sup> August, 2020 upon transfer from ICAR- Directorate of Medicinal and Aromatic Plants Research (DMAPR), Anand, Gujarat.



**Dr. Veena, G.L.**, Scientist (Fruit Science) joined this Directorate on 4<sup>th</sup> September, 2020, upon transfer from ICAR- Central Institute for Subtropical Horticulture, (CISH) Lucknow, Uttarpradesh.



### Transfer

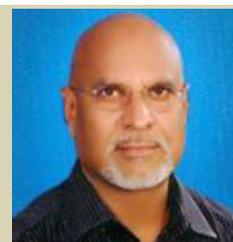
**Dr. P. Preethi**, Scientist (Fruit Science) has been relieved of her duties from ICAR-DCR, Puttur w.e.f. 30<sup>th</sup> December, 2020 upon her transfer to Indian Institute of Horticultural Research, Bengaluru.



### Honours/Recognitions/Awards

#### Dr. M.G. Nayak

- Conferred with Fellowship of International Society for Noni Science, Chennai, India for the year 2020 in recognition of his contributions in the field of Agricultural Sciences/Noni/Biological Sciences.
- Nominated as a member of National Advisory Board of forthcoming International Symposium on Coastal Agriculture (ISCA 2020): Transforming Coastal Zone for Sustainable Food and Income Security to be held in Kolkata during 5-8<sup>th</sup> November, 2020.
- Nominated as a member of Organic Certification Committee of Agricultural and Processed Food Products Export Development Authority (APEDA).



#### Dr. J.D. Adiga

- Conferred with Fellowship of International Society for Noni Science, Chennai, India for the year 2020 in recognition of his contributions in the field of Agricultural Sciences/Noni/Biological Sciences.
- Nominated as external examiner for conducting qualifying exam of M.Sc., and Ph.D. (Hort.) students in the discipline of Fruit Science at three different PG campuses (Bengaluru, Bagalkot and Arabhavi) of UHS, Bagalkot.



### Dr. K. Vanitha

- Bagged first 'Best Oral Presentation award' for the paper 'Insect pests of cashew apples, seasonality, damage and natural enemies' presented in International Web-Conference on Food Security through Sustainable Agriculture (FSSA), VAKSANA-2020 21-22<sup>nd</sup> September, 2020 by Shri Vaishnav Institute of Agriculture, Indore (M.P.), India.
- Conferred with 'Young Scientist Award 2020' in the field of Agriculture and Allied Sciences by Dr. B. Vasantharaj David Foundation, Chennai during National Conference on "Recent Scientific Advances in Agricultural and Environmental Sciences" on 22<sup>nd</sup> November, 2020 in Chennai, Tamil Nadu.



### Dr. Veena, G.L.

- Received 'Best Young Scientist Award- 2020' by EET CRS, Research wing for excellence in professional education and Industry by Education Expo TV research branding company Mumbai, India.
- Conferred with 'Young Scientist Award-2020' from Astha Foundation, Meerut, UP, India during International Web Conference on 'Global Research Initiatives for Sustainable Agriculture and Allied Sciences' organized by the GRISAAS-2020 during 28-30<sup>th</sup> December, 2020.



### Mr. Muralidhara, B.M.

- Conferred with 'Young Scientist Award -2020' from Astha Foundation, Meerut, UP, India during International Web Conference on 'Global Research Initiatives for Sustainable Agriculture and Allied Sciences' organized by the GRISAAS-2020 during 28-30<sup>th</sup> December, 2020.
- Bagged 'Best Oral Presentation Award' for presenting paper entitled 'Morphological characterization of south Indian avocado (*Persia Americana* Mill.) in International Web Conference (GRISAAS-2020) held during 28-30<sup>th</sup> December, 2020.



### Mr Rajkumar, A. D.

- Appointed as a Paper Setter for End Semester Examinations July - August 2020 of Fourth Semester M.B.A. (Agri and Food Business Management - Marketing) for the course - 'Food Laws & Regulation' by Chairman, Board of Examinations, MIT Art, Design and Technology University, Pune on recommendations of Head of the Department.



हर कदम, हर डगर  
किसानों का हमसफर  
भारतीय कृषि अनुसंधान परिषद

*Agr@search with a human touch*

Published by: **Dr. Anitha Karun**, Director (Acting), ICAR- Directorate of Cashew Research, Puttur - 574 202, D.K., Karnataka.

Tel. No. 08251 - 230 902; Fax: 08251 - 234350; E-mail: [director.dcr@icar.gov.in](mailto:director.dcr@icar.gov.in)

Website: <https://cashew.icar.gov.in>

Compiled and edited by: **Dr. K. Vanitha and Dr. G.S. Mohana**

ICAR- Directorate of Cashew Research, Puttur -574 202.