



KALPA

CPCRI Newsletter

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ICAR-CENTRAL PLANTATION CROPS RESEARCH INSTITUTE

Kasaragod, Kerala - 671 124
An ISO 9001:2015 Certified Institute





FROM THE DIRECTOR'S DESK

Agri-tech entrepreneurship for prosperity

Agricultural technology outcomes from research projects are milestones in development, giving upward thrust to the sector. As a result of technology development in the plantation crops R&D scenario, ICAR-CPCRI has been giving importance to micro and mini enterprises for upscaling demand for raw materials and profit generation.

For the last two decades, ICAR-CPCRI has been prioritizing technology development to reduce expenditure on farming, sustain farmers income and to develop profitable enterprises. With this motto, a number of high yielding varieties, crop management technologies, processes, products and machinery have been developed by the concerned scientists.

Technology acceptance from the clientele is also equally encouraging. About 80 different technologies have been accepted by the stakeholders through technology licensing and commercialization. Some of the technologies on the wall are the improved varieties, virgin coconut oil, Kalparasa and coconut sugar, coconut chips, EPN biocontrol agent, coconut water-based products, preservation protocol for

tender coconut water, coconut leaf vermicomposting, etc.

There are more technologies with potential but these need some more refinement for improving acceptability, for which more R&D as well as technology transfer efforts are needed. To provide a fillip to these R&D endeavour, the ICAR has come out with technology certification procedure from this year. It is very heartening that in the first round itself, 18 technologies from the institute were able to get certified by ICAR.

Identification of right kind of demand, timely action, refinements and economic as well as user-friendly nature are the approaches needed from the institute. Another aspect is socio cultural and environmental friendly nature for sustainable development. Technology certification, remunerative enterprises, branding, technology refinement and mass impacts are the tools for further development. As a premier institute, we look forward to meeting the requirements/ aspirations of the entire sector and granted in particular.

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ICAR-CPCRI technologies certified by ICAR

A total of 18 technologies developed by the Institute were certified from the Division of Horticultural Sciences during July, 2023, as detailed below:

- A set up to study the physiological impact of high temperature stress on the progamic phase of coconut - *K.B. Hebbar, Ramesh S.V., M. Sujithra V. Niral and G. S. Hareesh*
- Controlled hydroponics to study the physiological and biochemical basis of salinity tolerance in coconut - *K.B. Hebbar, Ramesh S.V. and Selvamani V.*
- Kalpa Vardhini, nutrient mixture for adult coconut palms - *Jeena Mathew, A. Abdul Haris, Ravi Bhat and P. Anithakumari*
- Foam mat drying of coconut milk - *M.R. Manikantan, Shameena Beegum, R. Pandiselvam and S. Jayashekhar*
- Jaggery infused osmo-dehydrated coconut chips - *M.R. Manikantan M. Pravitha, Shameena Beegum and R. Pandiselvam*
- Design and development of portable pyrolysis system for the production of biochar from tender coconut husk - *A.C. Mathew, R. Pandiselvam, M.R. Manikantan S.V. Ramesh and S. Neenu*
- Heliconia "Iris", A potential intercrop for shaded plantations - *K. Nihad, V. Krishna Kumar, Abdul Haris A. and Ravi Bhat*
- Technology on mass production of *Trichoderma harzianum* (CPTD28) using Arecanut leaf sheath - *V.H. Prathibha, Daliyamol and Vinayaka Hegde*
- Neera honey infused extrudates - *R. Pandiselvam, M.R. Manikantan, Shameena Beegum S.V. Ramesh, S. Neenu, Murali Gopal, A. C. Mathew and K. B. Hebbar*
- A preservation process of microwave treatment of coconut inflorescence sap (Kalparasa®) - *R. Pandiselvam, K. B. Hebbar, M. R. Manikantan S.V. Ramesh and Shameena Beegum*
- Thermal treatment of tender coconut water using transient computer simulation - *R. Pandiselvam, M.R. Manikantan S.V. Ramesh and P.P. Shameena Beegum*
- Facile coconut inflorescence sap mediated synthesis of silver nanoparticles and its antimicrobial property - *Rajesh M.K, Muralikrishna K.S., Anitha Karun and Hebbar K.B.*
- Single-nucleotide polymorphism (SNP) markers through genotyping-by-sequencing (GBS) approach - *Rajesh M.K, Sunil Shivaji Gangurde, M.K. Pandey, V. Niral R. Sudha, B.A. Jerard, Ganesh N. Khadke, A.A. Sabana, K.S. Muralikrishna, K. Samsudeen, Anitha Karun and T.S. Keshava Prasad*
- Development of noncoding RNA derived simple sequence repeat markers in coconut (*Cocos nucifera* L.) - *Rajesh M.K, A. A. Sabana, Ginny Antony, K. P. Gangaraj, V. Niral, R. Sudha and B. A. Jerard*
- Kalpa EPN, *Steinernema carpocapsae* (CPCRI-SC1) aqua suspension technology - *Rajkumar, Sujithra M, M. K. Rajesh, Pratibha V. H., Surekha, Nagaraj N. R., Joseph Rajkumar and Vinayaka Hegde*
- Trait identification and quality standards of testa oils derived from diverse coconut genotypes - *Ramesh S.V, K.B. Hebbar, Shameena Beegum, R. Pandiselvam, Niral V., M.R. Manikantan, Ms. Sugatha Padmanabhan, Neenu S., Sandip Shil, A.N. Lokesh and K.S. Shivashankara*
- Quality standards of variants of virgin coconut oil - *Ramesh S.V, R. Pandiselvam, Shameena Beegum, Neenu S., Sandip Shil, M.R. Manikantan, A.C. Mathew and K.B. Hebbar*
- Coconut infused dark chocolates - *Shameena Beegum, M.R. Manikantan, R. Pandiselvam, S.V. Ramesh, S. Neenu, Alka Gupta and K. B. Hebbar.*

Characterization of pollen from coconut accessions, for nutraceutical potential

Phytochemical properties of coconut pollen of six tall, three dwarf and three hybrids were characterized to assess diversity and harness coconut pollen as a

food ingredient. Amino acid profiling revealed the presence of all essential amino acids in coconut pollen. COD recorded the highest essential amino acid

content, followed by MGD and SNRT. Phenolic acid profiling of pollen, identified 18 phenolic acids, with coumaric acid, ferulic acid, and caffeic acid having the

highest content. Among the accessions, FJT, MGD, WCT, MYD, SNRT and COD recorded higher total phenolic acid

content. The relatively higher content of sugar, protein and polyphenols in coconut pollen necessitates further studies to

explore their nutraceutical potential.

Tolerance to tea mosquito bug in cocoa genotypes

The increasing severity of Tea Mosquito Bug (TMB) infestation in cocoa in recent years, has necessitated development of damage grading system, instead of simple percentage of damage, for assessing the incidence and accumulated damage due to injuries. In order to work out the field tolerance in cocoa genotypes, the feeding punctures observed in cherelles and pods were taken for calculation of the grade index. For example, if a tree is having a total of 30 pods, of which 20 pods are free of TMB, 7 pods at grade 1, 1 pod at grade 2, 1

pod at grade 3 and 1 pod at grade 4, the calculation will be $(20 \times 0) + (7 \times 1) + (1 \times 2) + (1 \times 3) + (1 \times 4) = 16 / 30$ (total no. of

pods) and grade index will be 0.53. It denotes that most of the damage lies between 0-1.



Damage in green pods



Damage in green cherelles



Damage in red pods



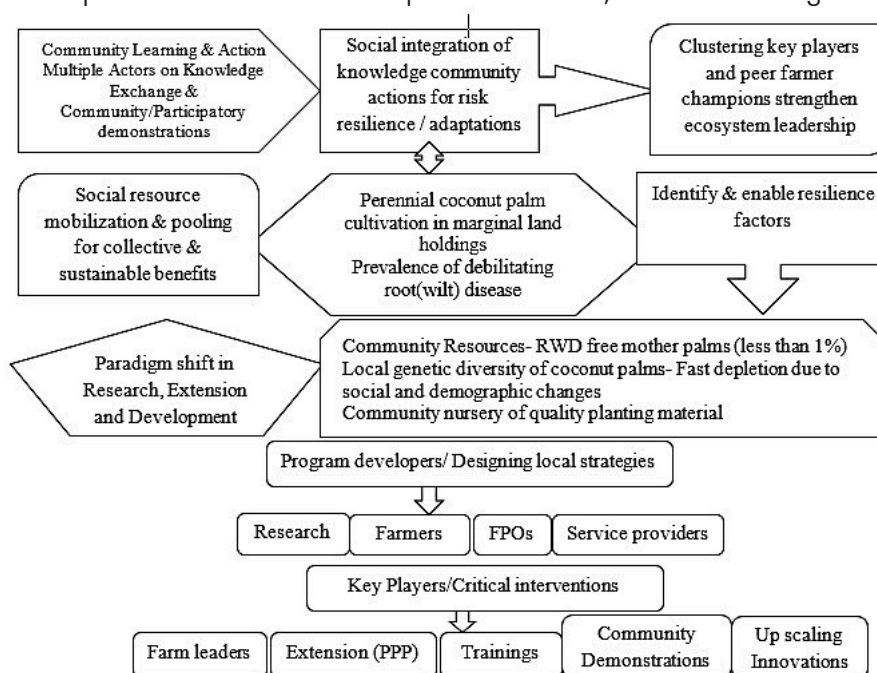
Damage in red cherelles

Community Farm School (CFS) for coconut

Community Farm School involves in conserving common resources like healthy high yielding mother palms of coconut, integration of traditional and experiential

knowledge and skill, and recording significant improvement in knowledge and adoption. Five community nurseries produced 10,000

polybag bio-primed coconut seedlings, and upscaled the technology in five panchayaths covering 5500 hectare area involving 1100 coconut farmers.



Knowledge sharing among community partners and adoption of technologies

New hosts of coreid bug, *Paradasynus rostratus* Distant

Nut crinkler or coreid bug *Paradasynus rostratus* Distant (Hemiptera: Coreidae) is an emerging as well as endemic pest of coconut in Southern Kerala. Besides coconut, a few other hosts are reported viz., guava, neem, cashew, cocoa, tamarind, para rubber tree,

mango, tapioca, passion fruit, black pepper and gamboge. Eleven new hosts, belonging to ten botanical families were recorded as hosts of coreid bug during the current study. New hosts, namely, Java apple, soursop, custard apple, nutmeg, mangosteen, tomato, West

Indian cherry, Rambutan, loquat, coral vine and sapota resulting in wider adaptability and sustenance of this pest. Adult coreid bugs either laid eggs or fed on these hosts and laid an average of 35.89 ± 16.68 eggs per cluster, in the pest endemic area.



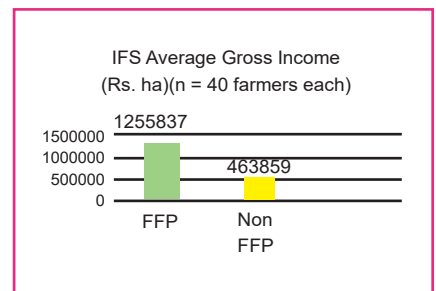
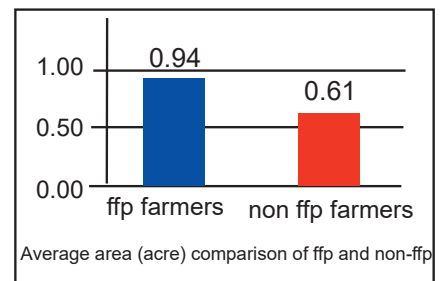
SUCCESS STORY

Technology outreach benefits

A study was conducted among 40 farmer field school beneficiaries (FFP) and 40 ordinary farmers of coconut based Integrated Farming System (IFS) in 2023. The average land holding size of IFS, ranged from 0.61 to 0.94 acres. The gross income of the IFS farmers (Rs. / ha) of non FFP farmers was Rs. 4.64 lakh whereas of FFP IFS farmers was Rs. 12.56 lakh, indicating the impact of the FFP interventions such as HYV fodder cultivation, GAP in livestock, organic recycling (cow dung

powder, vermicomposting), addition of HYV of inter crops in coconut gardens and 68.9 percent improvement in coconut productivity due to integrated root (wilt) disease management. The market orientation and social participation of FFP farmers significantly improved in comparison to non-FFP farmers. One of the critical factors is the increase in biodiversity index in FFP - IFS plots (0.55) compared to non - FFP IFS gardens (0.29), indicating sustainability and risk resilience of the CPCRI

technology interventions.



KVK trainee wins state award

KVK-Alappuzha trainee Sri. Mujeeb A. Pulliyil, Karunagappilly received the best farmer award-2023 from the Govt. of Kerala on 17th August 2023 (Farmer's Day) for value addition of agricultural produce. With the training support from KVK - APTIC he initiated drying jackfruit using the machineries of the KVK-

APTIC and marketed jack fruit powder with the brand name "Kachoos food products". With the KVK training he expanded the activities and diversified into production of pulp based products like jam, concentrate, and squash and seed-based products like chutney powder, seed powder based traditional

wafers and also established his own unit. KVK also linked him to several exporters and marketing channels to sell the products. Thus, KVK trainee prepares more than 30 marketable jackfruit products, employs 40 women and markets the products to Gulf countries also.



PUBLICATIONS

Research articles

- Logeshkumar, P., Nalini, R., Josephrajakumar A.,

Chandramani, P., Mini, M.L., Durai Singh, R. and Murugan, M. 2023. Flight

activity of invasive rugose spiralling whitefly (*Aleurodicus rugioperculatus*

- Martin) and bondars nesting whitefly (Paraleyrodes bondari Perrachi) in coconut orchards. *Research on Crops* 24(2): 403-406.
- Logeshkumar, P., Nalini, R., Josephrajikumar, A., Chandramani, P., Mini, M.L., Durai Singh, R., Murugan, M. and Suresh, K. 2023. Competitive regulation of dominant exotic whiteflies on coconut palms as influenced by biotic and abiotic factors. *Indian Journal of Entomology*. Online published Ref. No. e23248
 - Prathibha, P. S., Rajesh, M. K., Sabana, A. A., Subaharan, K., Venugopal, V. and Jilu, V. S. 2023. Distinguishing palm white grub complex, *Leucopholis* spp. (Coleoptera: Scarabaeidae: Melolonthinae) from India using high-resolution melting (HRM) analyses. *International Journal of Tropical Insect Science*, <https://doi.org/10.1007/s42690-023-01031-5>
- Popular articles**
- Madhu, T.N., Saneera, E.K., Shivaji Thube, R. Thava Prakasa Pandian, Bhavishya and Nagaraja, N.R. 2023. Ambrosia beetle: An emerging pest of arecanut palm. *Insect Environment*. 26(3): 388-391. DOI: 10.55278/RIYN3908.
 - Anes, K. M., Shareefa, M., Babu, M., Jeena Mathew, Josephrajikumar, A., Sajjan, J.V. and Nihad, K. 2023. Thengine arinjukundu venam aarogya paripalanam. *Indian Naliker Journal*, 15(8): 5-10 (In Malayalam).
 - Anithakumari, P., Akhilesh, P.K., Anju Krishnan and Bhavya, S. 2023. Sree Annam-Millet crops in coconut gardens - Success story. *Indian Naliker Journal* 15(6):10-16 (In Malayalam).
 - Mayalekshmi, Shareefa, M. and Thomas, R.J. 2023. Coconut varieties suitable for Kerala. *Indian Naliker Journal*. 15(8): 11-14 (In Malayalam)
 - Prathibha, P. S., Thamban, C. and J.V. Sajjan. 2023. Integrated management of red palm weevil in coconut garden - A success story from Bayar, Kasaragod. *Indian Coconut Journal* 66(2): 30-33.
 - Shareefa, M., Mayalekshmi, Indhuja, S. and Thomas, R.J. 2023. Polybag nursery for production of quality coconut seedlings. *Indian Coconut Journal* 66(2): 5-7.
 - Sunny Thomas, Haris, A.A. and Josephrajikumar, A. 2023. Let's identify Coreid bug of coconut- How it can be controlled. *Indian Coconut Journal* 66(3):14-15.

Papers presented in seminar/ symposia/ conference/ workshop

- Nagaraja, N.R. 2023. Varieties, planting methods, nutrient, weed and irrigation management in arecanut. In: Seminar cum Exhibition on coconut and arecanut. Organized at ICAR-KVK, Salem, Tamil Nadu, during 11.08.2023 to 12.08.2023.
- Niral, V. 2023. Technologies from CPCRI in coconut. In: Seminar cum Exhibition on coconut and arecanut. Organized at ICAR-KVK, Salem, Tamil Nadu, during 11.08.2023 to 12.08.2023.



IMPORATANT EVENTS

World Coconut Day Celebration

The World Coconut Day 2023 celebration was inaugurated by Sushri Shobha Karandlaje, Honourable Minister of State for Agriculture and Farmers Welfare, Government of India, at ICAR-CPCRI Kasaragod. The programme was organized jointly by ICAR-CPCRI,

Kasaragod and Coconut Development Board (CDB), Kochi. The minister urged the entrepreneurs to double their exports by marketing value-added products to customers not only in local bazar but worldwide bazars. She said, "We are number one in coconut

production and also 8th biggest global exporter of agricultural commodities such as horticultural crops, spices and food grains". The minister visited tissue culture and the agro-processing laboratories. She also witnessed drone-based spraying on coconut plantations, ground

pollination device demonstration, technologies for organic farming as well as integrated pest and disease management practices developed by the institute.

Sri N.A. Nellikkunnu, MLA, presided over the function and highlighted the present crisis faced by the coconut farmers. Dr. V.B. Patel, Assistant Director General (F&PC), ICAR, New Delhi offered felicitation. He said that the policymakers from the government, scientists from the institute, entrepreneurial personalities and the farmers

with their combined efforts in the coconut sector, will make significant developments in the long term. Sri Renukumar, Vice Chairman, CDB, and Sri P.R. Muralidharan, President, BAMCO, offered felicitations. Earlier, Dr. K.B. Hebbar, Director, CPCRI, in his welcome address, highlighted the technologies developed at the institute, with emphasis to value addition and entrepreneurship development. Dr. Hanumanthe Gowda, Chief Coconut Development Officer, CDB, Kochi, dwelt upon the

various schemes implemented by the Board for farmers.

Seven publications were released during the programme, which include, five from ICAR-CPCRI and two from CDB.

More than 500 farmers entrepreneurs from Kerala, Tamil Nadu, Karnataka, Andhra Pradesh, Goa and Gujarat attended the celebration. The technical sessions on various aspects of coconut production were conducted in different sessions.



Hon'ble minister inaugurating World Coconut Day 2023 at Kasaragod

National Teacher's Day 2023

ICAR-CPCRI Regional Station, Kayamkulam in collaboration with CDB, Kochi also celebrated World Coconut Day along with National Teachers' Day on 5th September 2023 including farmers' seminar, farmer-scientist interaction, felicitation to retired teachers from Kerala Agricultural University (KAU) and competitions for staff members. The programme was inaugurated by Dr. C.K. Peethambaran, Retired Director of Research, KAU, and presided by Dr. P. Anithakumari, Acting Head, ICAR-CPCRI, RS,

Kayamkulam. Retired KAU faculty, viz., Dr. D. Alexander, Dr. Sverup John, Dr. Shylaja S., Dr. Arthur Jacob, Dr. A.V. Mathew served as the panelists. '*Kalpasthupam*', reminiscence for commemorating the legacy of 75 years of service to coconut

farming community was unveiled during the event. Sixty farmers, people representatives and officials of Department of Agriculture Development & Farmers Welfare from Thanneermukkom Panchayath participated in the programme.



Staff and invitees on the occasion of Teacher's Day 2023, at CPCRI RS Kayamkulam

Institute Research Committee meeting

The 51st Annual Institute Research Committee Meeting was held at ICAR-CPCRI Kasaragod during 10–14 July 2023, under the chairmanship of Dr. K. Balachandra Hebbar, Director. Progress of 67 different research projects and achievements were presented by the respective Principal Investigators.

Plenary Session of the 51st institute research committee meeting was held on 14th July, 2023. Dr. Hanumanthe Gowda, CCDO, CDB, Kochi, was the

chief guest and Shri. Krishna Kumar, MD, CAMPCO, Mangaluru was the guest of honour. Heads of Divisions, Heads of Regional Stations and Research centres and distinguished scientists of ICAR-CPCRI, IMC members, viz, Mr. Sadananda Shetty and Shri. Murali, progressive farmer, entrepreneur Mr. Sathyanarayana Udupa and entrepreneur Shri. Varadharajan, Mrs. Jyothi, DDA (NHM) and Mrs. Anitha, DDA, participated in the session.

Based on the discussions and recommendations, the Technical Programme for 2023-24 was finalised.



Dr. K. Balachandra Hebbar, Chairman, IRC, addressing the delegates

Training programme for North-East region KVK Officials

A five-days training programme for KVK officials of North-East Region on 'Scientific cultivation of coconut, arecanut and cocoa' was conducted at ICAR-CPCRI, Kasaragod from 14-18 July 2023. Dr. K. B. Hebbar, Director, ICAR-CPCRI, in his inaugural address highlighted the importance of North-East as the future hope and suitable region for plantation crops. Dr. K.B. Hebbar emphasized that the

thrust is on increasing productivity in the region for which there is a need for better understanding of the crop and availability of technological alternatives towards achieving the goals. He also stressed the need for innovation and technology development to tackle changing climate and highlighted that value addition is the means to tackle price fluctuations. More than 20

officials benefitted from this programme.



KVK, Scientist's training at ICAR – CPCRI, Kasaragod

Annual Group Meeting of ICAR-AICRP on Palms

The 32nd Annual Group Meeting of ICAR-AICRP on Palms was held at the Horticultural Research Station, Kahikuchi, Assam Agricultural University, Jorhat, during September 13–15, 2023. Dr. V. B. Patel, Assistant Director of General (Fruits and Plantation Crops), ICAR, New Delhi, presided over the inaugural function, wherein Dr. N. K. Mohan, Hon'ble Member, Agricultural Commission, Govt. of Assam, was the Chief Guest.

Dr. K. B. Hebbar, Director, ICAR-CPCRI, Kasaragod; Dr. K. Suresh, Director, ICAR-IIOPR, Pedavegi; Dr. R. K. Mathur, Director, ICAR-IIOR, Hyderabad; Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bangalore; Dr. G. Kathirvel, Director, ICAR-ATARI, Guwahati; and Dr. D. Prasath, Project Coordinator (Spices), ICAR-IISR, Kozhikode, were present for the inauguration. Dr. KUK. Namboothiri and Dr. P.

Chowdappa, former directors of ICAR-CPCRI, participated in the inaugural session as invited experts.



Release of Publications during 32nd Annual Group Meeting of ICAR-AICRP on Palms

Dr. B. Augustine Jerard, Project Coordinator (Palms), presented progress report. The Chief Guest, Dr. N. K. Mohan, in his special address underlined the rich

biodiversity of the horticultural sector in the North-eastern Region and the role of Britishers in establishing the first tea garden in the country and

uplifting the economy of the region. Aliyarnagar Centre, TNAU, Tamil Nadu, was adjudged the Best AICRP (Palms) Centre for the year 2022-23.

Dream Big-Kalpa

The Dream Big-Kalpa, Institute-Industry Interface meeting was conducted at ICAR-CPCRI,

Kasaragod on 2 August 2023 in which 60 people participated. Awareness programmes on IP

management were conducted for students from different universities.

Institute Management Committee

The IMC met on 22nd September, 2023 at CPCRI, Kasaragod under the chairmanship of the Director Dr. K. Balachandra Hebbar. The IMC comprised of Dr. K. Balachandra Hebbar, Director, ICAR-CPCRI,

Kasaragod, Dr. Vikramaditya Pandey represented the ICAR, New Delhi, Shri. K. Sadananda Shetty, Shri. Suresh Kumar Shetty, Shri Ram Avtar Parashar I/C Chief Administrative Officer, ICAR-CPCRI, Kasaragod, as

members. During the meeting the IMC has overviewed the institutional management aspects and financial management aspects and taken appropriate decisions for implementation.

DST-SERB Karyashala on processing and value addition

ICAR-CPCRI organized DST-SERB sponsored Karyashala (High End Workshop) on "Opportunities and Challenges in Processing and Value-Addition of Plantation

Crops" during 2-8 September 2023 for 30 PG/Ph.D. students from different SAU's. ICAR-CPCRI also organized a four week skill development training

programme for B. Tech. (Agrl. Engg.) students of College of Agricultural Engineering, ANGRAU, Madakasira, AP, from 4-30 September, 2023.



HUMAN RESOURCES DEVELOPMENT

Training attended

Name & Designation	Title	Place & Date
Smt. Arathi, A. R., Stenographer, Smt. Mary, A.J., UDC, Smt. Preethi, K., Assistant, Sh. Aswin Reghunath, UDC, Sh. Vivek Singh, Stenographer Grade III, Smt. Deepa, T., UDC, Sri. Arun N.K. Raj, LDC	Online Pre examination training programme for Limited Departmental Audit & accounts Examination	ICAR-NIASM, Pune 20 July to 6 October, 2023 (online mode)
Dr. Elain Apsara, Pr. Scientist (Hort), ICAR-CPCRI RS, Vittal	Online 'Workshop for Liaison Officers (SC/ST)	ISTM, New Delhi, 17-18 August, 2023 (Online mode)

Awards/ Honours

Madhu, T.N. received Young Scientist Award at 5th National Conference on "Recent advances

in agricultural and industrial entomology and environmental sciences and their impact on

food environmental security", held on 29-30 September, 2023, in Chennai.



TRANSFER OF TECHNOLOGY

Other programmes

The following programmes were conducted for skill development among SC & ST youth.

Capacity development interventions/training programmes organized under SCSP

Sl.No.	Topic	Venue	Date	No of participants
1	Training for nursery worker/ owner'	ICAR - CPCRI, RS, Vittal, Karnataka	01.09.2023 to 31.10.2023	06
2	Training programme for SC youth on preparation of bio-control agents	ICAR - CPCRI, RS, Vittal, Karnataka	01.09.2023 to 31.12.2023	03
3	Training on scientific arecanut cultivation and seedling distribution	Harisabha, Chock Moulani, Jalpaiguri, W. Bengal	26.09.2023	55
4	Training programme on scientific coconut cultivation practices-cum-seedling distribution	ICAR-CPCRI, RC, Mohitnagar, W. Bengal	15.07.2023	75

Capacity development training programmes organized under TSP

Sl.No.	Topic	Venue	Date	No of participants.
1	Planting material production	ICAR - CPCRI, Kasaragod, Kerala	August 2023 - March 2024	6
2	Neera production	ICAR - CPCRI, Kasaragod, Kerala	August 2023 - March 2024	3
3	Soil testing, resource recycling and mass multiplication of biocontrol agents	ICAR - CPCRI, RS, Vittal, Karnataka	September 2023	5
4	Advanced agro-techniques for cocoa cultivation - high density planting, canopy management and drip fertigation	ICAR - CPCRI, RS, Vittal, Karnataka	September 2023	5
5	Coconut based farming system for sustainable farm income	Kocharippa, Kerala	7 September, 2023	110

Radio talks/TV programme broadcast

Radio talks

Sl.No.	Name and designation	Topic	Station and Date
1	Dr. K. Sajinath SMS	Organic enrichment of soils	AIR, Thiruvananthapuram 15 July, 2023
2	Mrs. G. Lekha SMS	Mushroom cultivation	AIR, Thiruvananthapuram 4 August, 2021
3	Shri M.S. Rajeev SMS	Role FPOs in agriculture sector	AIR, Thiruvananthapuram on 18 August, 2023
4	Smt. Jissy George SMS	Nutritional and health benefits of millets	Njattuvela FM Radio Kuttanad on 20 September, 2023
5	Dr. Jilu V. Sajan, Scientist	'Thengile poonkula chazhiyum mattu pradhana keedangalum niyanthrana margangalum'	AIR, Thiruvananthapuram on 23 September 2023

TV Programmes

Topic	Channel and date of telecast
Onattukarayude Krishikaazhchakal - A Documentary on KVK trained farmers/entrepreneurs	Kissan krishideepam of Asianet TV, 1 July 2023
Millet cultivation as intercrop in coconut gardens: Success story of ICAR-CPCRI Farmer. First Project in Devikulangara and Pathiyur panchayat	DD-Malayalam, 17 August 2023

Krishi Vigyan Kendra, Kasaragod

The ICAR- Krishi Vigyan Kendra, Kasaragod initiated 5 OFTs, 14 frontline demonstrations two EDP

programmes, one nutrigarden programme, SCSP and various extension activities during 2022-

23. The major achievements of these programmes are given below.

EDP on Millets

A EDP training on millet value addition was imparted to around 20 entrepreneurs between 11th July - 18th Dec 2023. The products covered included pre-

processed ragi powder, ragi malt, multi grain poshak powder, multi millet health mix, millet pastas, amylase rich sprouted ragi powder, millet milk shake

mix, etc. Some of these were branded by the entrepreneurs and marketed.

PM Kisan Sammelan

The webcasting of the Honourable Prime Ministers programme was telecast on 27 July 2023 to the farmers of the

Kasaragod district for creating awareness on various programmes launched by the Honourable Prime minister. The

meeting was attended by 54 farmers and 20 extension functionaries.

Workshop on water budgeting

A workshop was organised on "Importance of water budgeting

and watershed management in local self government institutions

on 26th July, 2023 at ICAR-CPCRI Kasaragod, in

collaboration with KSCSTE-CWRDM, Kozhikode. The event was inaugurated by Smt. Baby Balakrishnan, Hon'ble President, Kasaragod District Panchayat and was presided over by Dr. K. Balachandra Hebbar, Director,

ICAR-CPCRI. Dr. A.C. Mathew, Principal Scientist, ICAR-CPCRI, delivered the keynote address. Three talks were delivered on various topics during the workshop. The meeting was attended by around 150 officials

including presidents and secretaries from various Panchayats, Agricultural Officers, ATMA and NGO's staff members.

ICAR Foundation and technology days celebration

A one day workshop on Millets was conducted on July 18, 2023. An exhibition of value added products from millets prepared

by self help groups was also arranged along with workshop. The workshop was attended by 112 participants including

farmers, entrepreneurs and extension personnel.

Farmer Scientist Interface

A Farmer-Scientist interface programme was organised at Friend's Club, Kayyar, Jodukallu,

Magalpady Panchayat of Manjeshwar Block on 4th August 2023. The programme was

attended by 56 progressive farmers of the region.

SCSP Programme

A total of ten programmes were conducted covering more than 200 farm families of SC colonies located in Mangalpady, Madhur, Badiadka, Enmakaje, Kumbala, Chengala, Mogral Puttur, and Muliya panchayaths. Activities conducted included "Demonstration of carbon fibre pole harvester cum sprayer at Kubanoor, Mangalpady with the participation of 46 farmers; Awareness programme on "Significance of Moringa cultivation for Nutritional security" marking the event of

National Nutrition Month at Chenekkode, SC colony and Distribution of 250 moringa seedlings (PKM-1) to around 45 families at Chenekkode and Majal SC colonies of Madhur panchayath; Distribution of around 1025 Arecanut seedlings (Sree Mangala) to SC farmers/farm women; Skill oriented training for 8 days on "Use of brush cutter for creating self-employment amongst un employed youths"; Skill oriented training on "Areca Leaf Sheath Plate Making" and Training on

" Organic Vegetable Cultivation " conducted for 25 participants wherein IIHR vegetable kits and 50 hybrid coconut seedlings were promoted to the participants in coordination with SCSP programme of ICAR-CPCRI, Kasaragod; Training on nutritional significance of papaya and its cultivation in homesteads and distribution of 250 Papaya seedlings (Red Lady var.) to beneficiaries at Goliadka SC Colony.

FET programme

ICAR KVK, Kasaragod, organised an FET programme for the 113th

batch FOCARS trainees from 4 to 22 September 2023 in which 6

scientists probationers participated.

ICAR-Krishi Vigyan Kendra, Alappuzha

Training programmes

During the period 37 training programmes were organized

benefitting a total number of

1027 farmers/rural youths.

ICAR Foundation Day

ICAR-KVK-Alappuzha celebrated 95th ICAR Foundation Day by organizing various technology dissemination activities in the KVK and different parts of district from

16–18 July 2023. Three programmes (1) Off-campus training cum exhibition of 'Value added products from Jack fruit' at Muhamma (2) On-campus

training cum exhibition on Millets and (3) Orientation and demonstration of high yielding fodder varieties at Muhamma and Thanneermukkom.

WaLCoPPT- An innovative programme of technology outreach to coconut farmers

A Comprehensive Coconut Rejuvenation Campaign (CoCoReCa) is planned and implemented by KVK-Alappuzha in Muhamma and Thanneermukkom panchayaths from 2023 which include (1) Ward Level Coconut Plant

Protection Trainings (WaLCoPPT) (2) Demonstration on Integrated Management of Coconut (3) Farmer Field School on Juvenile Coconut Management (4) Value addition of coconut for higher returns (5) Skill training programme to develop Friends of

Coconut Tree (FoCT) and (6) Participatory production of good quality seedlings. The programme with genuine partnership from the Panchayath, Krishi Bhavan and farmer groups was inaugurated on 20 July 2023.

Webcasting of Prime Minister's address to farmers

Hon. Prime Minister's address on the occasion of the release of 'Kisan Samman Nidhi' was webcasted to farmers assembled

in the KVK on 27 July 2023. Interface of the farmers with KVK scientists also was done on the occasion. A total of 74

participants including farmers and staff attended the programme.

Inter-KVK exposure visit of Heads of Zone XI KVKs

Heads of eleven KVKs of Karnataka and one KVK of Kerala visited KVK-Alappuzha on

17th August, 23 on inter-KVK exposure initiated by ICAR-ATARI, Bengaluru. The team visited

demonstration units of the KVK with technical discussions with the SMSs and Farm manager.

District level A officials – Scientist interphase

A technology interphase meeting of the extension officials and Scientists of Alappuzha district was organized by KVK – Alappuzha on 21st September, 2023 in collaboration with

ATMA, Dept. of Agriculture and Kerala Agricultural University (KAU). A total of 55 persons including Project Director and staff of ATMA, Asst. Directors of Agriculture, and Agricultural

Officers of Alappuzha district and resource persons from ICAR-CPCRI, KAU and KVK-Alappuzha attended the programme.

Californian Mastitis Test (CMT) campaign

Sub clinical mastitis is a severe, hidden disease of dairy animals which leads to huge economic loss to the farmers. CMT kit demonstration campaigns were conducted as part of the FLD on "Management of subclinical mastitis in dairy cows" on 14th and 20th September, 2023 in collaboration with the primary co

operative milk societies in Varanad, Sreekandamangalam, Muhamma (South) and Muhamma (North). This is a simple test which farmers could do themselves and the result is obtained in less than a minute. Four campaigns were conducted societies. Following the method demonstrations, CMT kits were

issued to 30 partner farmers. A total of 78 farmers and farm women attended these programmes.



COMMERCIALIZATION OF TECHNOLOGY

During the period from July-Sept 2023, 17 technologies were commercialized and an amount of Rs. 8,77,500/- was collected as technology transfer fees. Details are given below:

Sl. No.	Name of Technology Commercialized	Date of MOA	Value (In INR)	To Whom Commercialized
1	Shatamangala-Arecanut variety	02-09-2023	2,00,000	Mr. Gangadhara Alva, Integrated Rural Agri Nursery, Badiadka – 671 551, Kasaragod Dt., Kerala.
2	-do-	02-09-2023	2,00,000	Mrs. Vanitha Yadukumar, Yashaswi Nursery, Kemminje – 574 202, Puttur, Dakshina Kannada Dt., Karnataka.
3	Coconut varieties – Kalpa Samrudhi and Chandra Sankara and Aqua formulation of EPN Kalpa EPN (CPCRI- SC1)	17-07-2023	1,15,000	Mr. Ram Laxman Polabhai and Mr. Jotva Bharat Hajabhai, Mahakali Coconut Farm, Veraval, Dist. Gir-Somnath-362265, Gujarat.
4	Kalpa EPN, Heterorhabditis indica (CPCRI- HI1) Aqua suspension	18-08-2023	25,000	Mr Deepak Bhat, Citron Field Agro, Kanchigadde village, Kodnagadde Post, Sirsi Taluk, Uttara Kannada, Karnataka – 581336.
5	Aqua suspension of EPN, Kalpa EPN (CPCRI- SC1)	02-09-2023	10,000	ICAR Krishi Vigyan Kendra, Kanhirangad (PO), Taliparamba, Kannur – 670142, Kerala.
6	Snowball Tender Nut Machine	22-09-2023	2,500	Mr. Kiran D.B., M/s Nutriwadi Natural Foods International, Lekshmi Nivas, Mundur (PO), Thrissur – 680541, Kerala
7	Technical Knowhow of production of Coconut Chips	26-07-2023	25,000	Mr. Peter Paul Leonard Irudayaraj, Kaspapuram, Padavettammankoil Street, Chennai- 600126, Tamilnadu.
8	-do-	02-09-2023	25,000	Dr. Venugopal Nainala, Narial Bharat Nutra Producer Company Limited, Mamidikuduru, Dr BR Ambedkar Konaseema district, Andhra Pradesh – 533247.
9	-do-	15-11-2023	25,000	M/s Hotballoon Foods Pvt. Ltd., Panangangara, Puzhakkattiri (P.O.), Pin – 679321, Malappuram Dist, Kerala
10	Preservation of Carbonated Tender Coconut Water	20-07-2023	25,000	Mr Abdul Rasheed C, Proprietor, E4 Enterprises, Kalady P.O, Malappuram, Kerala – 679582.
11	-do-	02-09-2023	25,000	Mr. Abdul Sawad T.A., Redhive ODM LLP, Apsara Tiger Garden Business Centre, KPR Rao Road, Kasaragod-671121, Kerala.

12	-do-	14-09-2023	25,000	M/s Malabar Farmer Producer Company Limited., Kunnathupalam, P.O. Guruvayoorappan College, Kozhikode, PIN – 673014, Kerala
13	Foam mat dried coconut milk powder	25-07-2023	10,000	Mrs. Manjusha. T, Dakshin Food Products, Chelannur, Eruvallur P.O, Kozhikode-673616, Kerala.
14	Collection of fresh and hygienic Kalparasa and production of natural coconut sugar	02-09-2023	1,00,000	YGP Coconut Farmers Producer Company Ltd, Avaragere (Village), Chitradurga Road, Davangere, Karnataka-577003.
15	Preservation protocol for trimmed tender coconut	22-09-2023	15,000	Mr. Kiran D.B., Managing Director, M/s Nutriwadi Natural Foods International, Lekshmi Nivas, Mundur (PO), Thrissur – 680541, Kerala
16	Trichoderma Coir Pith Cake	20-09-2023	5,000	ICAR Krishi Vigyan Kendra, KCAET Campus, Tavanur, Malappuram – 679573, Kerala.
17	Preservation of coconut gratings	12-09-2023	10,000	Mrs. Sunitha D.V., M/s Cocopalms Pixel Pvt. Ltd., Rangapura, Tumkur, Karnataka - 572106.
18	Bean to bite chocolate	17-08-2023	10,000	Mr. Sivasubramaniam Umopathy, Umopathy Poultry Farms, Venkitapuram Post, Palladam (TK), Tirupur, Tamil Nadu 641664.
19	-do-	21-08-2023	10,000	Green Kollam Farmers Producer Company Limited, Curzon Nagar 114, Kollam – 691013
20	Kalpa Eco-pots	18-08-2023	15,000	Mr. Gangadhara Alva, Integrated Rural Agri Nursery, Badiadka – 671 551, Kasaragod Dt., Kerala.
21	Matured coconut water based value added products	26-07-2023	Complementary with chips	Mr. Peter Paul Leonard Irudayaraj, Kaspapuram, Padavettammankoil Street, Chennai- 600126, Tamil Nadu.
22	-do-	02-09-2023	-do-	Dr. Venugopal Nainala, Narial Bharat Nutra Producer Company Limited, Mamidikuduru, Dr BR Ambedkar Konaseema district, Andhra Pradesh – 533247.
		Total Rs.	8,77,500	



Technology licensing to entrepreneurs from Gujarat

Mera Gaon – Mera Gaurav

ICAR-CPCRI in support of Kaniyoor Savanoor Farmer Producer Company

Kaniyoor Savanoor Farmer Producer Company Limited, Dakshina Kannada Dt., Karnataka and Charvaka Milk Producers Cooperative Society, organized a workshop on arecanut on 10.08.2023 at Charvaka Milk Producers Society. The event was witnessed more than 100 participants. During the technical session, improved

varieties and hybrids of arecanut, quality planting material production in arecanut, recent advances in arecanut production technologies and also arecanut based multispecies cropping system, important diseases of arecanut and their management, advances in arecanut pest management were explained to the farmers.



A view of the farmers interface at Savanoor



PARTICIPATION IN NATIONAL SEMINARS/SYMPOSIA/ CONFERENCES/WORKSHOPS

Name & Designation	Title	Place & date
Dr. A. Joseph Rajkumar, Pr. Scientist Dr K.M. Anes, Sr Scientist	Annual review meeting of AICRP on Biological Control	College of Agriculture, Pune 20.07.2023 to 21.07.2023
Dr. Madhu T.N., Scientist	Workshop on "Insect Taxonomy and Identification"	TIFR, NCBS, Bangalore 24.07.2023 to 28.07.2023.
Dr. Neenu S. and Dr. Prathibha P.S., Sr. Scientist	First International Seminar on "Bioresource Technology For Sustainable Development"	Central University of Kerala, Kasaragod 07.09.2023 to 08.09.2023
Dr. Vinayaka Hegde, Principal Scientist & Head	National Symposium on Plant Health Management: Current Trends and Novel Mitigation Strategies	ICAR-CTCRI Thiruvananthapuram 11.09.2023 to 12.09.2023

Dr. K.B. Hebbar, Director, Dr. B. Augustine Jerard, Project Coordinator (Palms), Dr. P. Subramanian, Head, Dr. Vinayaka Hegde, Head, Dr. Murali Gopal, Head, Dr. V. Niral, Head, Dr. K. Muralidharan, Acting Head, Dr. Ravi Bhat, SIC, PME, Dr. K.P. Chandran, Principal Scientist, Dr. P. Anithakumari, Acting Head, Dr. Regi Jacob Thomas, Principal Scientist, Dr. Joseph Rajkumar, Principal Scientist, Dr. M. K. Rajesh, Head, Dr. M. Sujithra, Senior Scientist, Dr. V.H. Prathibha, Senior Scientist, Dr. S. Sumitha, Scientist, Dr. Merin Babu, Senior Scientist, Dr. S. Elain Apshara, Principal Scientist, Dr. Alpana Das, Principal Scientist, Dr. N.R. Nagaraja, Senior Scientist, Dr. Anok Uchoi, Scientist, Dr. L.S. Singh, Scientist.	32nd Annual Group Meeting of AICRP on (Palms)	HRS, Kahikuchi, AAU 13.09.2023 to 15.09.2023
Dr K Muralidharan and Dr. M. R. Manikantan, Principal Scientists	Sensitization workshop of ICAR- ABI's	NASC Complex, New Delhi 21.09.2023 to 22.09.2023
Dr. Madhu T. N., Scientist	5th National conference on "Recent Advances in Agricultural and Industrial Entomology and Environmental sciences and their impact on food environmental security"	Chennai 29.09.2023 to 30.09.2023



CELEBRATIONS

राजभाषा कार्यान्वयन

भाकृअनुप- केंद्रीय रोपण फसल अनुसंधान संस्थान में 14 सितम्बर 2023 से 28 सितम्बर 2023 तक हिंदी पखवाड़ा का आयोजन किया गया। इसका उद्घाटन समारोह अनुसंधान केंद्र, काहिकुची में 14 सितम्बर 2023 को पूर्वाह्न 9.30 बजे ऑनलाइन माध्यम में संपन्न हुआ। आई. सी. ऐ. आर. गीत के उपरांत श्री अश्विन रघुनाथ ने सर्वशक्तिमान का प्रार्थना गीत गाया। डॉ. अल्पना दास, प्रमुख एवं प्रधान वैज्ञानिक, अनुसंधान केंद्र, काहिकुची ने अतिथियों का स्वागत किया। मुख्य अतिथि डॉ. आर.के. माथुर, निदेशक, भारतीय तिलहन अनुसंधान संस्थान, हैदराबाद थे

और उन्होंने हिन्दी के महत्व की व्याख्या की। उद्घाटन एव अध्यक्षता डॉ. वी.बी. पटेल, सहायक महानिदेशक (बागवानी विज्ञान), भा.कृ.अनु.प., नई दिल्ली ने किया। उन्होंने हिन्दी की आवश्यकता और उसको बढ़ावा देने की जरूरत को समझाया। श्री पी. कृष्ण कुमार, प्रशासनिक अधिकारी ने धन्यवाद ज्ञापन किया। केंद्रीय रोपण फसल अनुसंधान संस्थान के सभी अधिकारियों एवं कर्मचारियों ने विभिन्न केंद्रों से इस समारोह में हाइब्रिड मोड में भाग लिया। हिंदी पखवाड़े के अवसर पर कर्मचारियों के लिए शब्द निर्माण, अनुवाद, स्मरण परीक्षा, हिंदी कविता पाठ, अंताक्षरी,

निबंध लेखन, मौके पर बोलें, सुलेख एवं तस्वीर देखें और लिखें जैसे प्रतियोगिताओं का आयोजन भी किया गया।

हिंदी पखवाड़ा समारोह का समापन 29 सितंबर 2022 दोपहर 3.30 बजे डॉ. के बालचंद्र हेब्बार, निदेशक महोदय की अध्यक्षता में संपन्न हुआ। अपने अध्यक्षीय भाषण में जितना हो सके, उतना काम हिन्दी में करने के लिए उन्होंने अनुरोध किया। डॉ. सीमा चंद्रन, सहायक प्राध्यापक, केरल केंद्रीय विश्वविद्यालय, कासरगोड़ कार्यक्रम का मुख्य अतिथि रही। एकत्रित दर्शकों को सम्बोधित करते हुए, उन्होंने बताया कि हिंदी भाषा के

सीखने और प्रचार का प्रयत्न भरपूर किया जा रहा है। इसी दिशा निर्देशों से काम करने से और सरल शब्दों का प्रयोग से इस भाषा को जन जन की भाषा बनाया जा सकता है। समापन समारोह में विविध प्रतियोगिताओं के विजेताओं को मुख्य अतिथि ने नकद पुरस्कार प्रदान किए। कार्यक्रम के अंतर्गत श्री एन. उदयकुमार और श्री मणिकंठन ने अपने मधुर गीतों से सभी का मनोरंजन किया। स्वागत भाषण श्री राम अवतार पराशर, प्रमुख वित्त एवं लेखा अधिकारी ने किया और धन्यवाद ज्ञापन श्री कृष्णकुमार पी प्रशासनिक अधिकारी ने किया। क्षेत्रीय स्टेशन, कायमकुलम में 19 से 25 सितंबर 2023 तक हिंदी सप्ताह मनाया गया। हिंदी गीत, हिंदी श्रुतलेख, हिंदी टंकण, हिंदी अनुवाद, हिंदी हस्तलिपि, टिप्पणी और हिंदी मसौदा लेखन सहित विभिन्न प्रतियोगिता प्रतियोगिताओं का आयोजन किया गया। स्टेशन के प्रत्येक कर्मचारी ने प्र

तियोगिताओं में भाग लिया। 25 सितंबर, 2023 को समापन समारोह का आयोजन डॉ. पी. अनिताकुमारी (कार्यकारी प्रमुख) के अध्यक्षता में किया गया। मुख्य अतिथि श्रीमती राजप्रिया, हिंदी शिक्षक, कायमकुलम बॉयज हायर सेकेंडरी स्कूल से थीं। श्री राम अवतार पराशर, मुख्य वित्त एवं लेखा अधिकारी, और श्री ए.

नील विन्सर, सहायक प्रशासनिक अधिकारी द्वारा अभिनंदन भाषण दिया गया।

दिनांक 26.04.2023 को भाकृअनुप - सीपीसीआरआई, कासरगोड में 'कंठस्थ' प्रशिक्षण कार्यक्रम भी ऑनलाइन जरिए आयोजित किया गया था।



राजभाषा प्रशिक्षण



समापन समारोह



उद्घाटन कार्यक्रम

Hindi Week celebrations

Various competitions viz., Hindi song, Hindi dictation, Hindi typing, Hindi translation, noting and drafting, telling picture name and Hindi handwriting competition were organized for staff of ICAR-CPCRI, Regional Station Kayamkulam from 19 to 25 September 2023. Hindi Week closing ceremony was held on 25 September 2023. Mrs. Rajapriya, Hindi Teacher, Boys Higher Secondary School,



Hindi Week celebrations at RS, Kayamkulam



Kayamkulam was the Chief Guest. She stressed the importance of use of Hindi in official communications and the need for celebration of Hindi

Week. Chief Finance and Accounts Officer Mr. Ram Avtar Parashar and Mr. Niel Vincer, Assistant Administrative Officer offered felicitations.



WOMEN'S CELL ACTIVITIES

Awareness on women and hygiene

An awareness programme on "Eco- friendly personal hygiene for women" was conducted at ICAR-CPCRI Kasargod on 21st August, 2023 for the benefit of institute staff and students of Kendriya Vidyalaya No.1,

Kasaragod under the leadership of Dr. K. B. Hebbar, Director. Dr. V. Niral, Chairperson Women's Cell, in her welcome address emphasized the need for awareness among women for the eco-friendly personal hygiene



Panelists during the awareness programme

and related health issues. Miss Lavina, Marine Biologist/ Researcher was the Chief guest and delivered a speech on eco friendly personal hygiene for

women and Dr. Shruthi A.G., Director, Shruthi IVF fertility and cosmetics gynecology centre also delivered speech on related menstrual health issues. The

programme was facilitated by Mrs. Jyothi Hebbar, social worker associated with Pragma Counseling Centre, Mangaluru.



DISTINGUISHED VISITORS

Sl. No.	Visitors	Place and Date
1	Sushri Shobha Karandlaje, Honourable Minister of State for Agriculture and Farmers Welfare, Government of India, Sri N.A. Nellikkunnu, MLA, Kasaragod, Dr. V. B. Patel, Assistant Director of General (Fruits and Plantation Crops), Horticulture Science Division, ICAR, New Delhi,	ICAR-CPCRI, Kasaragod 2 September, 2023
2	Dr. V. B. Patel, ADG (F&PC), ICAR, New Delhi, Dr. N. K. Mohan, Hon'ble Member, Agricultural Commission, Govt. of Assam, Dr. K. Suresh, Director, ICAR-IIOPR, Pedavegi; Dr. R. K. Mathur, Director, ICAR-IIOR, Hyderabad; Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bangalore; Dr. G. Kathirvel, Director, ICAR-ATARI, Guwahati; Dr. KUK. Namboothiri and Dr. P. Chowdappa, former directors of ICAR-CPCRI	ICAR-CPCRI, RC, Kahikuchi 13-15 September, 2023
3	Mr. M.S. Arunkumar, MLA, Mavelikkara	KVK, Alappuzha, RS, Kayamkulam 27 September, 2023
4	Shri. Ikuto Zhimomi, Hon'ble MLA, Aghunato, Nagaland, Shri. Albert Ngullie, Director, Department of Land Resources, Government of Nagaland and other dignitaries.	ICAR-CPCRI (RS), Vittal 27 September, 2023



OTHER INFORMATION

A 125 KVA generator installed at ICAR CPCRI, Regional Station,

Kayamkulam as common infrastructure facility and RT-PCR

machine installed in Pathology laboratory of the Station.



PERSONALIA

APPOINTMENTS

Name	Designation	Place	Date
Dr. Vinayaka Hegde	Head, Div. Crop Protection	ICAR-CPCRI, Kasaragod	14.07.2023
Dr. P. Subramanian	Head, Div. Crop Production	ICAR-CPCRI, Kasaragod	14.07.2023
Dr. Murali Gopal	Head, Div. PB&PHT	ICAR-CPCRI, Kasaragod	14.07.2023
Dr. (Mrs.) V. Niral	Head, Div. Crop Improvement	ICAR-CPCRI, Kasaragod	14.07.2023
Dr. M.K. Rajesh	Head	ICAR-CPCRI, RS, Vittal	14.07.2023
Dr. (Ms.) Chaithra M.	Scientist (Plant Pathology)	ICAR-CPCRI, RC, Kahikuchi	11.07.2023

TRANSFERS

Name of the staff	From (Place)	To (Place)	w.e.f.
Shri Sasi K.K.	AFAO, ICAR-CPCRI, RS, Kayamkulam	AFAO, ICAR-DCR, Puttur	18.07.2023
Shri T.J. Saji	Assistant, ICAR-CPCRI, RS, Vittal	Assistant, ICAR-CPCRI, RC, Kahikuchi	18.08.2023
Shri Mohammed Haneefa	UDC, ICAR-CPCRI, RS, Vittal	UDC, ICAR-CPCRI, Kasaragod	26.09.2023

RETIREMENTS

Name	Designation	Place	Date
Dr. A.C. Mathew	Principal Scientist	ICAR-CPCRI, Kasaragod	31.07.2023
Smt. Sugatha Padmanabhan	Chief Technical Officer	ICAR-CPCRI, Kasaragod	31.07.2023
Smt. T. Susheela	SSS	ICAR-CPCRI, RC, Kidu	31.07.2023
Shri Abdul Aziz	Technical Officer	ICAR-CPCRI, RS, Vittal	31.07.2023
Shri Purandhara C.	Technical Officer	ICAR-CPCRI, RS, Vittal	31.08.2023



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