



**CONFEDERATION OF HORTICULTURE  
ASSOCIATIONS OF INDIA**

**CHAI  
AWARDS  
&  
FELLOWSHIPS  
2023**

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# CHA

## Awards & Fellowships - 2023



**CONFEDERATION OF HORTICULTURE ASSOCIATIONS OF INDIA**

(An ISO 9001:2008 Certified Organisation)

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## From the Desk of the Founder and Chairman

**Dr. H.P. Singh**

*Chairman, CHAI*

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The **Confederation of Horticulture Associations of India (CHAI)**, established in the year 2010, is committed to the furtherance of Horticulture/ Agriculture development through knowledge creation, dissemination and implementation of the programmes. Horticulture, comprising of fruits, vegetables including tubers, floriculture, spices, plantation crops, medicinal and aromatic plants, has emerged vital for the socio-economic development of the country, to ensure nutritional security, environmental services, employment generation, health care and above all, effective and productive land use. The emerging trend worldwide and also in the country is indicative of a paradigm shift in dietary preferences with health consciousness and rise in expandable income.

This change is demanding more horticultural produce. A trend of horticulture development in the past, particularly during the last two decades, has been satisfying. The adoption of horticultural crops in the systematic manner has improved the quality of life of the people in many regions, as farm profitability increased. However, the challenges to the horticulture are investment, capital and access to technology beside, initial learning for the development of the acquired skills. Attempts to address many of these issues were made through mission mode approach, which brought a revolution in horticulture, referred to as Golden Revolution.

The **CHAI** took an initiative to organise Knowledge Sharing Workshops at several locations on topical issues involving institution, industry, the farmers and other stakeholders. The Workshops were designed to provide opportunity to all the stakeholders, for sharing the knowledge and its dissemination for the formulation of policy, which became a guiding principle for achieving the goal and objectives of smart horticulture. Deliberations in workshop on the issues in the thematic areas provided more time for discussion to arrive at the logical conclusions. In the past, 17 workshops have been organised, besides, supporting conferences, symposia and Sangosthi, at different locations on various themes to catalyse the efforts of farmers, which have succeeded in empowering farmers with new knowledge and providing policy frame work. During the year, 3 workshops were organised as well as, the conference, Sangosthi and training organised by the ASM Foundations were supported.

The National Conference on **Climate Resilient and Sustainable Development of Horticulture**, organized at CSAUA & T, Kanpur, Uttar Pradesh, by ASM Foundation was supported by the CHAI, which was a great success in terms of participation, technical contents and outcome. Kisan Sangosthi organised at Pusa on 3<sup>rd</sup> September by the ASM Foundation was also supported. A training on organic farming was also partnered. The Chairman, Dr. H. P. Singh, delivered keynote lectures on micro-irrigation, horticulture and innovations in various conferences. The lectures attracted lot of discussion. Dr. Singh was Chief Guest and the Guest of Honour in many conferences. The chairman visited farmers' fields, guided the farmers and provided technical guidance to agriculture related companies from time to time.

During the year 2022, CHAI-Honoured Fellow Award was conferred on Dr. A. K. Srivastava, Chairman, ASRB, DARE, MoA & FW, New Delhi, for his outstanding contributions and leadership of par excellence. CHAI- Honourary Fellow Awards were conferred on Dr. B. Neeraja Prabhakar, VC, SKLTSU,

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Mulugu, Siddipet, Telangana, Dr. R. K. Singh, Former Director/ VC, IVRI, Bareilly, U.P.; Dr. Narendra Kumar Gontia, VC, JAU, Junagadh, Gujarat and Prof. (Dr.) K. P. Singh, VC, MJPRU, Bareilly, U.P. for their contributions and providing leadership of par excellence. The CHAI-Life Time Achievements Award was conferred on Dr. T. Janakiram, VC, Dr.YSRHU, Venkataramannagudem, A.P. CHAI- B H Jain Award for excellence in extension was conferred on Dr. Chandeshwar Tiwari, Director Extension, VCSGUUHF, Bharsar, Pauri, Uttarakhand and Dr. Babita Singh, Project Manager, GEF, Rainforest Alliance, New Delhi. Life Time Recognition Award was conferred on Dr. Anoop K. Srivastava, CCRI, Nagpur. CHAI-Appreciation Award was conferred on Dr. Vijay Mahajan, ICAR-Directorate of Onion and Garlic Research, Rajgurunagar, Pune, Maharashtra. The CHAI- R S Paroda Award was conferred on Dr. Dilip Ghosh, Director, CCRI, Nagpur, Maharashtra. The CHAI-JISL Fellowship was conferred on Dr. L. Pugalendhi, Dean, HC&RI, TNAU, Coimbatore. Fellow of CHAI was conferred on selected nominations from across the country. Various categories of award have been finalised for the year 2023, which shall be conferred on 28<sup>th</sup> May, 2023 at JISL, Jalgaon, Maharashtra.

The CHAI has also signed MoU with many organisations for effective outreach and technological up-gradation and work as knowledge partner. Recognising the role of CHAI in transforming Horticulture/ Agriculture, there has been an overwhelming responses and the fellowships have reached to 418, including Institutional and Corporate Fellows. The growing interest for joining hands with CHAI from corporate, institutions, societies and individuals has build up confidence to serve the community for achieving the mandate of the confederation, is highly encouraging. I am confident that the CHAI shall emerge as an organisation to make us proud, to be its fellow, for the furtherance of agriculture/horticulture. I congratulate all the awardees of CHAI. I express my heartiest thanks to all the fellows for their effective cooperation. I thank all, who helped in bringing out this CHAI -Award and Fellowships. I am sure of the continued support from all the Fellows. I have pleasure in presenting the details of CHAI-Awards and Fellowships-2023. Finally, I look forward for making the Confederation global, second to none, in the service to mankind with focus on Horticulture.

**H.P. Singh**  
The Founder and Chairman

## ABOUT OBJECTIVES, GOAL, MISSION AND ACTIVITIES OF THE CHAI

Confederation of Horticulture Associations of India (CHAI), an ISO- 9001:2015 certified non- profiting organisation, established during 2010, is committed for the furtherance of horticulture/agriculture research, education and development, through bringing organisations and individuals to work together in mission mode. The CHAI, with specific objectives of strengthening, coordinating, facilitating and converging policies at the grass root level for sustaining integrated development nationally and internationally, is emerging as a think-tank as well as a consultative body. The mission and objectives of CHAI and its network include, *inter alia*, to serve as a platform to provide critical inputs to public policy on major issues concerning innovations in facilitating the development of rural economy and promote development of rural India, in the global context and dimensions. The CHAI is also committed towards capacity building at all levels and is striving hard to achieve its goal of technology-led development by exploring and providing innovative solutions. CHAI is working on horticulture and agriculture tirelessly with set goals and commitments. It conducts and organises number of national/international/global conferences and workshops for the exchange of informations and knowledge, to develop the strategies for addressing the emerging concerns with scientific solutions. For the dissemination of knowledge, the CHAI brings out various publications like Books, Journals, Reports and News Letters. **International Journal of Innovative Horticulture**, which publishes scientific articles, short notes, reviews articles and case studies, is brought out six monthly. To promote innovative ideas, the CHAI has instituted many awards which inspire individuals and team for the innovations and excellence. The CHAI offers various categories of Fellowships i.e. organisation, associations, corporate, and individual. The CHAI is headed by Dr. H. P. Singh, as the Founder and Chairman, who is well known globally for his outstanding contributions to horticulture/agriculture research, education and development. The CHAI has also established its units in many states to serve agriculture/horticulture at regional level.

### **Mission**

Development of agriculture/horticulture by providing strategic solutions to the problems, utilising the services of talented experts in the field of agriculture/ horticulture and disseminate the knowledge.

### **Vision**

Bring synergy among different societies/associations, experts and entrepreneurs to encourage effective participation of all stakeholders for accelerating the economic growth through technological interventions and human resource development.

### **Goal of CHAI**

To play a catalytic role, in addressing the concern of food and nutritional security and also livelihood options, through interventions of technology-led agriculture / horticulture development.

### **Aims and Objectives of CHAI**

- Furtherance of agriculture / horticulture through improved cooperation by integrating scientific study, education and knowledge exchange of biological, ecological, environmental, sociological and economic issues that affect agriculture / horticulture.

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- To catalyze the efforts of development by creating associations for interaction among all agriculture/ horticulture societies/ associations, growers, entrepreneurs, policy planners and activists through consultations, organisation of seminars, conferences, meetings, national dialogue and trainings.
- To establish, promote, run, maintain and support the community for the promotion in advancement of agriculture/ horticulture, and to serve as an apex organisation concerned with promotion of agriculture/ horticulture, having linkages with various commodity/ input, organisations, institutes, Governmental and Non-Governmental organisations.
- To establish education and training institutions for human resource development and skills upgradation for meeting the needs of empowered human resource.
- To recognise the services of people in horticulture through incentives, awards and encourage the scientists for their participation in national and international events.
- To establish education and research institutions and provide expert guidance to organisations as well as individual to capitalise on the strength and build human resource.
- To take up all the activities, deemed to be fit, in achieving goals and mission of the Confederation for furtherance of horticulture/agriculture for economic developments.

### **Initiatives of CHAI**

The confederation has successfully organised and supported national and international conferences, workshops and national consultations, services in education and is providing solutions to the problems. Awards and Fellowships have been instituted to recognise the contributions of scientists and other stakeholders in the research and development, in the country and abroad. The Confederation has instituted various awards, which includes, CHAI- Honoured Fellowship for leadership of par excellence, the CHAI- Life Time Achievement Award for distinguished life time contributions in horticulture, the CHAI- Honorary Fellowship for noticeable contributions and commitment to furtherance of horticulture, the CHAI- Dr. R. S. Paroda Award for excellence in research and academics, the CHAI- Dr. B.H. Jain Award for excellence in transfer of knowledge and diffusion of technology, and the CHAI- Ram Nandan Babu Award for excellence in farming. During 2022, CHAI-Kautilya Lok Niti Award was instituted to recognize the contributions to public policy governance, strategic analysis and ancient philosophy. During 2023 Dr. H.P. Singh Young Scientist Award has been instituted to recognize the excellence of young scientists.

The CHAI- Life Time Recognition Award has been instituted to recognise outstanding contributions and providing leadership in specific crop commodity. The CHAI-Appreciation Award is given for distinguished contributions and excellence in the field of specialisation. To encourage the students, the CHAI has instituted the CHAI- Dr. Ray Best Dissertation Award in recognition of significant post graduate research work. CHAI- Best Paper Award is given for scientific article published in International Journal of Innovative Horticulture (IJIH). CHAI Fellowship is conferred to subscribers for their commitment in furtherance of agriculture/horticulture. The CHAI- JISL Fellowship is provided for training abroad to meritorious fellows. During the year the CHAI instituted Achiever's Award to recognise the fellows who excelled in their career and reached to the level of Director or Vice Chancellor or equivalent owing to outstanding contributions and leadership quality. A CHAI- Associate Fellow was also instituted to recognise meritorious and young upcoming scientist. Considering the needs for dissemination of science-based knowledge among scientists for the furtherance of / horticultural science, an International Journal of Innovative Horticulture (IJIH) is also being published besides newsletter, books, annual report, CHAI Year Book and Gyan Manthan, which have over whelming response.



### Strength of CHAI

- The CHAI has wide spectrum of experts, who are enrolled as fellow to support the technology-led development and provide strategic expert advice.
- The Chairman, having held the position of DDG, ICAR; Vice-Chancellor, RAU, Pusa; Horticulture Commissioner, Govt. of India and many other positions, known nationally and internationally in the field of research, education and development has expertise in horticulture, water management, nutrient management, quality seeds and planting material production and above all coordination, planning and execution of project and its final s evaluations.
- More than 416 fellows of CHAI have expertise in various aspects of agriculture/ horticulture.
- Besides, the fellows, more than 100 experts in different fields from India and abroad are enrolled with CHAI.
- CHAI has offices in Delhi, Patna, and Bengaluru to attend to all the types of work for business solution options.
- The CHAI is a non-profiting company, and has established network with institutions, academy, corporate, business house, NGOs and also international organisations.
- The network of CHAI, expertise of skilled fellow and standing experts makes the confederation to offer knowledge and its management strategies for modernising agriculture/horticulture and serve the nation.

### Activities of CHAI

The Confederation has catalysed the development of Horticulture though partnering in activities of conference organised on emerging issues, which has helped in developing strategies for research and development. The conferences supported in past are **National Conference on Production of Quality Seeds and Planting Material - Health Management in Horticultural Crops**, 11-14<sup>th</sup>, March, 2010 New Delhi; **National Conference on Horticultural Bio-diversity for Livelihood, Economic Development and Health Care**, 28-31<sup>st</sup>, May, 2010, Bengaluru; **International Conference on Coconut Biodiversity for Prosperity**, 25-28<sup>th</sup>, October, 2010, Kasargod, Kerala; **Global Conference on Meeting the Challenges in Banana and Plantain for Emerging Biotic and Abiotic Stresses**, 10-13<sup>th</sup>, December, 2010, Trichy, Tamil Nadu; **National Symposium on Molecular Approaches for Management of Fungal Diseases of Crop Plants** 15-20<sup>th</sup>, December, 2010, Bengaluru; **National Conference on Horti Business-Linking Farmers with Market**, 28-31<sup>st</sup> May, 2011, Dehradun, Uttarakhand; **Global Conference on Augmenting Production and Utilization of Mango: Biotic and Abiotic Stresses**, 21-24<sup>th</sup>, June, 2011 Lucknow; **Global Conference on Horticulture for Food, Nutrition and Livelihood options**, 28-31<sup>st</sup>, May, 2012, Bhubaneswar; **National Conference on Sub-Tropical Fruits**, 9-12<sup>th</sup>, January, 2013, Navsari, Gujarat; **Brain Storming Session on Nano-Bio-Information Technology for the Development of North Western Himalayan States**, 12-13<sup>th</sup>, July, 2013, Pantnagar, Uttarakhand; **National Workshop on Urban and Peri-Urban Horticulture**, 21<sup>st</sup> December, 2013, Navsari, Gujarat; **National Conference on Value Chain Management in Mango**, 20-22<sup>nd</sup>, March, 2014 Kolar, Karnataka; **Global Conference on Technological Challenges and Human-Resource for Climate Smart Horticulture- Issues and Strategies**, 20-31<sup>st</sup>, May, 2014, GAU, Navsari, Gujarat; **National Conference on Dynamics of Urban and Peri-Urban Horticulture**, 21<sup>st</sup> October, PHD house, New Delhi; **National Conference on Dynamics of Smart Horticulture for Livelihood and Rural Development**, at MGCGV, Chitrakoot, Satna, Madhya Pradesh, 28-31<sup>st</sup> May, 2015. The CHAI was a Knowledge Partner in Smart Agriculture- Geo Agri with the theme Technologies empowering Indian Agriculture organised at NOIDA on 2<sup>nd</sup> -3<sup>rd</sup> March 2016. The Confederation supported the conference organised on Pomegranate, at JISL, Jalgaon, April, 2016.

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The CHAI partnered a **Global Conference on Challenges and Options in Agriculture** organized at Jain Hills, Jalgaon, Maharashtra, on 28-31<sup>st</sup> May, 2016, The CHAI supported the organisation of two days **conference on pomegranate** at Jain Hills Jalgaon, on 16-17, April, 2016. The CHAI facilitated the organisation of **Kisan Sangosthi, on 3<sup>rd</sup> September** at Mahmada and 1<sup>st</sup> November at Dholi, Muzaffarpur. In the year 2017-18, CHAI supported the organisation of a **National Conference on Technological changes and innovations in Agriculture**, organised at JAU, Junagadh, Gujarat 28-31<sup>st</sup> May, 2017. **Knowledge Sharing Workshop on Tropical Fruits-banana and pomegranate** was organized at Hotel Masineni Grand, Anantpuramu, A.P., on 5<sup>th</sup> November, 2017. The **National Conference on Challenges and Options in Litchi Production and Utilisation**, 6-7<sup>th</sup> June, 2017, Muzaffarpur was organised. A **National Workshop on Technological Changes and Innovations in Potato and Pomegranate-Production for Utilization for Enhancing Farmers' Income**, was organized at Deesa, Banaskantha, Gujarat, October 06, 2017. The Chairman, as the Chairperson of ASSOCHAM Council on Agriculture and Food Security organised many meetings and conferences and chaired meetings, where CHAI was highlighted for its contributions. National Conference and Awards Function -**Organic World – Advantage India** was organised on 21<sup>st</sup> March, 2018, at Hotel Meredien, New Delhi, by the ASSOCHAM in association with Ministry of Agriculture and Farmers' Welfare. The CHAI supported and partnered in **National Conference on Intensification and Diversification of Agriculture for enhancement of income and livelihood**, at RAU, Pusa, Samastipur, Bihar, 28-31, May, 2018. In the year 2019, the CHAI supported and partnered an **International Conference on Innovative Horticulture and Value Chain Management – Shaping Future Horticulture**, organised at Pantnagar, Uttarakhand, 28-31, May 2019 by ASM Foundation, New Delhi. In the year 2020, the CHAI partnered a Webinar on **Post Pandemic (COVID-19) Challenges and Options in Agriculture including Horticulture** organised by the ASM Foundation, New Delhi, on 28<sup>th</sup> May, 2020. The webinar was a grand success in terms of participation and outcome. CHAI also patterned in organising the conference by ICFA, New Delhi, CNRI, New Delhi, and CALIDA, India. In 2021, CHAI could organise a webinar “New Paradigms in Production and Utilisation of Fruits and Vegetables for Health and Livelihood” on 11<sup>th</sup> February, 2021 to commemorate International Year of Fruits & Vegetables (IYFV) by UN which was a grand success, more than 200 stakeholders could participate. The CHAI had partnered in organizing a **Global Conference on Innovative Approaches for Enhancing Water Productivity in Agriculture including Horticulture**, organised at PJTSAU, Rajendranagar, Hyderabad, Telangana from 16-19 September.2021. During the year 2022, CHAI partnered and supported a **National Conference on Climate Resilient and Sustainable Development of Horticulture** organised at **CSAUA&T**, Kanpur, Uttar Pradesh, May 28-31, 2022, which was highly successful in term of technical content, participation and development of strategic recommendations, During the year the CHAI supported Kisan Sangosthi on Precision Horticulture and it's management, and the Training organised at AMRIT, Mahamada, Pusa, Samastipur, Bihar by ASM Foundation on 3<sup>rd</sup> September, 2022 and 22<sup>nd</sup> November, 2022. In Sangosthi, farmers discussed the approaches for precision horticulture. In training on Organic farmers were told about various products used for effective management of organic horticulture. They prepared various products under the guidance of experts. In the year, 2023-24 the CHAI is supporting in the preparation for **Global Conference on Precision Horticulture for Improved Livelihood, Nutrition, Economic and Environmental Services**.

### **Conferences/Workshops Organised**

The CHAI has been organising workshops on the topical issues. First workshop organised by the CHAI was on **Urban and Peri-Urban Horticulture, Bangalore**, on 2<sup>nd</sup> March, 2013 with the theme–Greening the cities, utilising the waste, meeting the needs and servicing the environment. The workshop deliberated issues and concluded adoption of Bangalore Declaration for catalysing the Urban and Peri-Urban Horticulture. In the year 2014 on 1-2<sup>nd</sup> March, CHAI organised a **Knowledge Sharing Workshop on Tropical Fruits - Value Chain Management for Enhancing Farm Profitability**. An **International**

**Conference on Floriculture and Landscape Gardening –Challenges and Opportunities:** was organised at Pune on 27<sup>th</sup> February. The CHAI organised 4<sup>th</sup> National Workshop on **Quality Production of Banana for Export and Domestic Market**, 29<sup>th</sup> May 2016 at Jain Hills Jalgaon. 5<sup>th</sup> workshop on **Dynamics of Challenges and Options in Integrated Aquacultures**, was organised on 2<sup>nd</sup> November, 2016 at Patna, The 6<sup>th</sup> National Workshop on **Technological Changes and Innovations in Pomegranate Production and Utilization for Enhancing Farmers’ Income**, was organized on 26<sup>th</sup> September, 2016, at JAU, Junagadh, Gujarat. With the similar objectives and theme, 7<sup>th</sup> Workshop was also organised at Agriculture University, Jodhpur, Rajasthan, India on 10<sup>th</sup> December, 2016, for the benefit of Rajasthan farmers, which provided an option to discuss pomegranate for improving the income of the farmers through technological interventions. The CHAI organised two-days 8<sup>th</sup> National Conference on **Perspective of Challenges and Options in Maize Production and Utilization**, 3-4<sup>th</sup> March 2017 at DRPCAU, Pusa, Samastipur, Bihar. 9<sup>th</sup> National Workshop on **Technological Changes and Innovations in Potato and Pomegranate-Production & Utilization for Enhancing Farmers’ Income**, was organized at Deesa, Banaskantha, Gujarat, October 06, 2017. The 10<sup>th</sup> National Conference on **Challenges and Options in Litchi Production and Utilisation** 6-7<sup>th</sup> June, 2017, Muzaffarpur was organised. 11<sup>th</sup> Knowledge Sharing Workshop on **Tropical fruits-Banana and pomegranate**, was organised at Anantpuram, 5<sup>th</sup> November, 2017. 12<sup>th</sup> Workshop (webinar) on **National Education Policy – Perspective and Prospect in Agriculture**, was organised in September, 2020 in association with MPUAT, Udaipur, which brought out the fact that the NEP is innovative and needs to be opted in agriculture. 13<sup>th</sup> Workshop (webinar) on International Year of Fruits and Vegetables, 2021 on the topic **New Paradigm in Production and Utilisation of Vegetables**, was organised on 11<sup>th</sup> Feb., 2021, in association with Dhanuka Agritech. 14<sup>th</sup> National Workshop was also organized on **Innovative Approaches for Enhancing Water Productivity in Dry Land Eco-system**, 29<sup>th</sup> Sept., 2021. The 15<sup>th</sup> National Workshop on **Digital Horticulture** was organised at CSAUAT, Kanpur, on 29<sup>th</sup> May, 2022. 16<sup>th</sup> National Workshop on **Management of CMV** was organised at Raver, Maharashtra, on 30<sup>th</sup> September, 2022. The 17<sup>th</sup> Knowledge Sharing Workshop on **Banana and Potato- A Farmers’ Perspective** was organised at the farm of progressive farmer, Mr. Sudhansu Kumar, Nayanagar, Rosra, Samastipur, on 22<sup>nd</sup> November, 2022.

### **Meetings of Board of Directors and General Council Meeting**

1. To review the technical and financial progress, the Board of Directors meets as per the needs, at least, 4 times in a year. General Council meet is held once in a year on 28<sup>th</sup> or 29<sup>th</sup> May. First Executive Council and General Council meetings were held on 29<sup>th</sup> and 30<sup>th</sup> May, 2012, respectively, and distinguished fellows were honoured with CHAI Fellowship for their commitment to the furtherance of horticulture, and various awards were conferred. Second Executive Council and General Council meeting were held on 29<sup>th</sup> May, 2013 at Jalgaon, wherein various issues were discussed. Besides, report of secretary and treasures, the distinguished members were conferred with the fellowship of CHAI. All the members, present, appreciated the efforts of the Chairman and ensured for the support in achieving the objectives of the CHAI. The **Council authorised the Chairman** to take all the action, as he deems it fit, in the best interest of CHAI. Third Annual General Council Meeting was held at Navsari on 29<sup>th</sup> May 2014, where in fellowships were conferred to all the members, who joined CHAI in 2013-14. 4<sup>th</sup> Annual General Council Meeting was held at MGCGV, Chitrakoot, Satna, Madhya Pradesh on 29<sup>th</sup> May 2015. 5<sup>th</sup> AGCM of CHAI was held at JISL, Jalgaon, 28<sup>th</sup> May, 2016. The 6<sup>th</sup> AGCM of the CHAI was held at JAU Junagadh, 28<sup>th</sup> May, 2017. 7<sup>th</sup> AGCM of the CHAI was held at DRPCAU, Pusa, Samastipur, Bihar on 28<sup>th</sup> May, 2018. Dr. A.K. Srivastava was the Chief Guest. Awards and Fellowships were conferred to individual and Institutions, for their contributions. Fellowship for attending IHC, 2018 was also announced. The overall progress was very much appreciated. 8<sup>th</sup> AGCM of CHAI was held at GBPUAT, on 28<sup>th</sup> May, 2019, where in Dr C.D. Mayee, Patron, CHAI was the Chief-guest. Award and Fellowships were conferred on individual and institutions. Report of secretary and financial reports

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were presented and approved, all fellows including the chief-guest appreciated the progresses and authorised the chairman to take up all the activities as he deems it fit. The 9<sup>th</sup> and 10<sup>th</sup> AGCM of CHAI was held at PJTSAU, Hyderabad, Telangana. Dr. S.K. Pattanayak, Former Secretary, Ministry of Agriculture and Farmers' Welfare was the Chief Guest. The meeting reviewed the progress and financial status. The corpus has reached to Rs. 90 lakh. The progress was appreciable. Selected candidatures were given various awards. This year to recognise the excellence in career of fellow of CHAI-Achievers Award were conferred to selected candidatures. Various awards and fellowships were conferred to selected nominations. In the year, 2022 the meeting of Annual General council was held at CSAUAT, Kanpur. Dr A K Srivatava was the chief guest. The report of progress and financial status were reviewed. Currently the CHAI has fixed deposit of 100 lakh. Various categories of awards were conferred on selected nominations.

### Participation in Exhibitions

The Confederation of Horticulture Associations of India continues to participate in Horti Expo, to exhibit the activities of CHAI to draw the attention in furtherance of horticulture.

### Institution of Awards and Fellowships

To recognise the contributions of scientists and other stakeholders in the research and development of horticulture/agriculture in the country and also abroad, the Confederation has instituted several awards to recognise the distinguished and noticeable services of individuals and organisations. The distinguished personalities, who have provided leadership of par excellence for the development of Indian Agriculture are recognised by conferring the **CHAI-Honoured Fellow**. The **CHAI-Life Time Achievement Award** is given for outstanding contributions, in research and development of horticulture. The distinguished members are also honoured with the **CHAI- Honorary Fellow**, for their excellence and commitment to furtherance of horticulture. The **CHAI- Dr. R. S. Paroda Award** is given for excellence in science and technology, The **CHAI- Dr. B.H. Jain Award** recognises an excellence in knowledge empowerment and dissemination and the **CHAI- Ram Nandan Babu Award** recognises innovative farmers for their excellence in farming, the **CHAI- JISL Fellowship** is given for visit abroad to attend conferences and training. The **CHAI- Life Time Recognition Award** is given for outstanding contributions and providing leadership in specific crop commodity, The **CHAI- Appreciation Award**, is given for distinguished contributions and excellence in the field of specialisation. The **CHAI- Dr. Ray Dissertation Award** is given for Best Dissertation at master's level and the **CHAI- Dr. Kirti Singh Best Paper Award** is given for the best scientific article published in IJIH. The distinguished members including institution with the commitment to the furtherance of horticulture are conferred with Fellow of CHAI in different categories. The Achievers' Award was also instituted to recognise the excellence in career of CHAI Fellow. A fellowship – Donor patron has also been started to recognise the entrepreneur in horticulture. During the year **CHAI- Kautilya Lokniti Award** has been instituted to recognise the contributions to public policy, strategic analysis and governance and also ancient philosophy. It is proposed to institute CHAI-Dr H.P. Singh Young Scientist Award, from 2024-25.

## PUBLICATIONS

### International Journal of Innovative Horticulture

Considering the needs for dissemination of science-based knowledge among scientists for the furtherance of horticultural science and on request of members from across the country and abroad, it was felt essential to bring out a journal. Accordingly, an **International Journal of Innovative Horticulture (IJIH)** was started. Peer reviewers are of national and international repute. The first issue of the journal was launched by His Excellency, Governor of Karnataka at Bangalore. The Journal published by CHAI,

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has an international look and shall consider original papers on multi-disciplinary aspects. The journal is published bi-annually. The types of papers include Original Research Articles, Reviews, Case studies, New cultivars and technologies, Commentaries and opinions, Policy issues, Abstract of Ph.D. thesis, Book Reviews, Features, Colloquia and Workshops. So far 11 volumes have been published and the NAAS also enlisted the Journal. The publication of Volume 12 (1), 2023 is in process.

### **MoU Development with Organisations**

The CHAI has also signed MoU with Dainik Jagran for effective outreach and technological up-gradation as well as to work as a knowledge partner.

### **Membership Benefits of CHAI**

The CHAI team consists of different categories of membership i.e. Institutional, Corporate, Association, Non-profit Organization (NPO) and Individual Members. Membership of the Confederation is open to individuals/ firms, organisations and societies/associations subscribing to the objectives of the CHAI by donation ranging from Rs. 35, 000 to Rs.2,00,000/-. The CHAI being a professional academic association envisions promotion of horticulture/agriculture in the country.

- Associations, corporate, entrepreneurs and individuals who are committed for the furtherance of horticulture shall request for the membership. Right to admission rests with Board of Directors and the Founder and Chairman.
- Nominations shall be accepted for consideration, which are endorsed by two members of CHAI or Institutional Head certifying their candidature.
- Member admitted to the CHAI shall be given a certificate of subscription, with a plaque of honour in the Annual Council Meeting as Fellowship of CHAI.
- Every member can attend the Council's meeting, whenever called, on his own cost or at the cost of CHAI, depending upon the terms and conditions, as approved by the Founder and Chairman.
- All the members/ fellows are entitled to receive the International Journal of Innovative Horticulture for 15 years, free of cost.
- All members/ fellows shall be eligible to request for awards including Dr. R. S. Paroda, Dr. B. H. Jain award, Ram Nandan Babu Award and any other awards instituted by CHAI.

Members/ Fellows shall be eligible to seek the financial assistance, if his or her paper is accepted in International Conference/ Symposia, which shall be considered on merit by the committee constituted by the Founder and Chairman. Only one or two fellowships for visit abroad will be available in a year.

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# Awards and Fellowships - 2023

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## 1.0 CHAI-HONOURED FELLOW AWARD

The distinguished personalities, who have provided leadership of par excellence for the development of Indian Agriculture, are recognised by conferring **CHAI- Honoured Fellow**. The awardees should have contributions to the furtherance of Horticulture/ Agriculture and must have peer recognition nationally and internationally, in improving the infrastructure, policy and programs of research and development impacting Indian Agriculture.

### 1.1 CHAI-HONOURED FELLOW AWARD-2023

#### 1.1.1 Dr. Himanshu Pathak, Secretary, DARE and DG, ICAR, MoAFW, New Delhi



**Dr. Himanshu Pathak**, born on February 2, 1965 in Purulia district of West Bengal, obtained his BSc (Ag) from Banaras Hindu University, Varanasi; and MSc and PhD in Soil Science and Agricultural Chemistry from Indian Agricultural Research Institute (IARI), New Delhi. Starting his career at IARI as scientist in 1992, he served as a Scientist and Principal Scientist and Director and was appointed as a Secretary, DARE and DG, ICAR, Department of Agriculture Research and Education (DARE), New Delhi. He has worked as a visiting scientist in the University of Essex, United Kingdom; International Rice Research Institute (IRRI), Philippines; CSIRO Land and Water, Australia and Institute of Meteorology and Climate Research, Germany. During 2007-2009, he worked as the Co-Facilitator, Rice-Wheat Consortium (RWC), IRRI-India, New Delhi. He was the Lead Author, Inter-Governmental Panel on Climate Change (IPCC) 5<sup>th</sup> Assessment Report. Currently, he is the Coordinator of DARE/ ICAR for the climate negotiations in the United Nation Framework Convention on Climate Change. Dr. Pathak worked as a Principal Investigator, Climate Change Challenge Programme at IARI, New Delhi. He has contributed significantly in quantification of greenhouse gas (GHG) emission from soil, evaluation of the effects of management practices and biotic and abiotic factors on GHG emission and development of inventories of methane and nitrous oxide emission from Indian agriculture. His research has helped in rationalising the estimates of GHG emission from Indian agriculture. He has developed simulation models such as Info Soil, Info Fert, Info Crop, Techno GAS and Info RCT for predicting the impacts of management and

climate on crop yield and optimising resource use for increasing production and minimising environmental pollution. Dr. Pathak is Fellow of the Indian National Science Academy (FINSAs), National Academy of Agricultural Sciences (FNAAS) and West Bengal Academy of Science and Technology (FWAST). He is the recipient of the Alexander von Humboldt Fellowship (FAvH) of Germany, Dr. BC Deb Memorial Award of the Indian Science Congress Association (ISCA), Golden Jubilee Commemoration Young Scientist Award of the Indian Society of Soil Science, BOYSCAST Fellowship of Department of Science and Technology, Govt. of India, Young Scientist Award and Prof. S. K. Mukherjee Commemoration Award of ISCA. He was the President of Agriculture and Forestry Sciences Section of Indian Science Congress. Currently he is the Editor-in-Chief, Current Advances in Agricultural Sciences, Editor, Greenhouse gases: Science and Technology and Editor, Indian Journal of Agronomy. He has published more than 200 research papers and 10 books and has h-index of 41, i10-index of 85 with more than 5500 citations in international literature.

**Address:** Dr. Himanshu Pathak, The Secretary, DARE, & Director General, ICAR), Department of Agricultural Research and Education (DARE), Ministry of Agriculture and Farmers' Welfare, Krishi Bhawan, New Delhi; Cell: 9899247590, 9437325663; Email: hpathak.iari@gmail.com

## 2.0 CHAI-LIFE TIME-ACHIEVEMENT AWARD

The CHAI-Life Time Achievement Award recognises an outstanding contribution, scientific excellence and the distinguished services of the awardee for the cause of horticulture/agriculture research, education and technology dissemination, which has impacted horticulture/agriculture development.

### 2.1 CHAI-LIFE TIME ACHIEVEMENT AWARD-2023

#### 2.1.1 Dr. Major Singh, Member, ASRB, DARE, MoAFW, New Delhi (CF-260)



**Dr Major Singh**, Former Director, ICAR-Directorate of Onion and Garlic Research, Rajgurunagar, Pune, and now member ASRB, New Delhi, born on June 20, 1960 had graduated (BSc Ag), from Gorakhpur University and earned his M Sc Ag from GB Pant University of Agriculture and Technology, Pantnagar and Ph.D in Genetics and Plant Breeding from CCS University, Meerut. In his career spanning 35 years in horticulture research and management, Dr Singh worked in various capacities, i.e., Scientist, Sr Scientist, Principal Scientist, Head, Project Coordinator, Director before becoming the Member ASRB, New Delhi. Dr Singh is credited to have developed more than 15 varieties/hybrids of vegetables especially in cucurbits, brinjal, chillies, tomato, peas, french beans onion and garlic. These varieties and hybrids were popularised among the farmers through demonstrations and is on high demand. He also developed transgenic lines in brinjal and tomato using *Cry 1Ac* gene constructs for resistant to shoot and fruit borer. Confirmed gene integration and expression through PCR, southern and ELISA and advanced the event up to  $T_8$  generation. Transgenic lines in tomato using *AtDREB1A* and *BcZAT12* gene constructs for water-deficit and multiple abiotic stress tolerance was also developed and gene integration was confirmed through PCR, southern and segregation analysis and advanced the lines up to  $T_6$  stage. Marker assisted breeding in tomato was started and genes Ty1, Ty2 and Ty3 were pyramided to develop durable resistant varieties against TyLCV. Mapping population in tomato, brinjal and chilli for gene tagging and QTL mapping was done and identified molecular markers for genetic purity of hybrids developed by IIVR in tomato, brinjal and chilli. For his outstanding contributions to vegetable research, Dr Singh is a recipient of many awards, to name the few are ICAR Team Award, Rajeev Gandhi National Award, Ministry of Home Affairs, Dr. Harbhajan Singh Award, NBPGR and



Certificate of Merit, Seed Research, 2005 and CHAI Appreciation Award 2021. He is associated with many professional societies in various capacity and is a member of many scientific societies namely, Vice-president, Indian Society of Alliums, Secretary, APIV, and the Chief Editor, Vegetable Science and Journal of Alliums. He is Fellow of many professional associations including the Fellow of CHAI and Fellow of NAAS. He has published more than 200 articles in various National and International Journals, of which 100 research articles are in high impact journals. He has guided 5 M.Sc. and 13 Ph.D students. Authored three books, Heterosis in crop plant, Legume vegetables and Biotechnology in crop improvement-concepts and manuals. He also published more than 16 research/extension bulletins, 26 book chapters and 20 popular articles. Dr Singh has outstanding skills in project formulation, monitoring and reporting in genetic resource management, varietal improvement, biotechnology etc. He has been Leader/ Principle Investigator in large number of projects which have inter-disciplinary, inter-institutional and even International participation. The team spirit, effective monitoring, critical path analysis led to appreciable success of the projects. He has proven leadership in various capacity. He is widely travelled in India and abroad and is currently providing leadership in human resource evaluation and recognition of leaders. His brief period in ASRB has become a milestone in historical perspective

**Address:** Major Singh, Member, ASRB, KAB 1, Pusa Institute New Delhi Phone 8707073940, 91-9451579735 (M) Email: singhvns@gmail.com

### 3.0 CHAI-HONORARYFELLOW- 2023

**CHAI-Honorary Fellow** recognises the individual for their academic excellence, outstanding contributions to research and development and leadership of par excellence, which has impacted the quality of life of people in India or abroad.

#### 3.1 CHAI-HONORARY FELLOW-2023

##### 3.1.1 Dr. Bijender Singh, President, NHRDF, New Delhi (CF-402)



**Dr. Bijender Singh**, S/o Late Shri Garib Ram, born on 5<sup>th</sup> April, 1948, MA Ph.D, is currently the Chair person of National Agriculture Cooperation Marketing Federation of India (NAFED) since May, 2019 and also the President of National Horticultural Research and Development Foundation (NHRDF), New Delhi. He has been the president of the Delhi State Cooperative Bank Ltd., New Delhi and Vice President of National Cooperative Union of India Ltd. (NCUI) and Director, Krishak Bharati Coop. Ltd. (KRIBHCO). He held a position of Director, General Council, National Coop. Development Corporation (NCDC) and National Federation of State Coop. Banks' Ltd. (NAFSCOB), Navi Mumbai. He has also been Director of National Coop. Agriculture & Rural Dev. Banks' Federation Ltd., Navi Mumbai and Cooperative Bank of India (COBI). He served as Director in The Agri-allied & Consumer Coop. Federation Ltd., Azadpur and The Delhi State Coop. Mkt. & Supply Fed., Nangloi. He also held, in the past, the position of Chairman, National Coop. Cons. Federation of India Ltd. (NCCF), Chairman, National Federation of State Coop. Banks' Ltd. (NAFSCOB), Navi Mumbai. He has been Member of the Delhi Vidhan Sabha from Nangloi Jat Assembly Constituency (AC-11) for two consecutive terms i.e. 2003-2013. He was also the Councillor, M. C. D. Ward No. 43 (Nangloi) in 2002. Dr Singh was the President, Govt. School Teachers' Association, Delhi (1988-1993), Chairman: Delhi Agricultural Marketing Board,

Govt. of N.C.T. of Delhi, President, Joint Council of Delhi Teachers' organisation, Director, Delhi Financial Corporation, Govt. of N.C.T. of Delhi, Chairman, The Delhi State Coop. Mkt. & Supply Federation Ltd., Director, Delhi Coop. Veg. & Fruit Growers Marketing Federation, Delhi, Member: Standing Committee, M.C.D., Chairman, Rural Areas Committee, M.C.D. Member, Special Municipal Accounts Committee, M.C.D., Member, Ad-hoc Grant-in-aid Committee, M.C.D., Member, Najafgarh Ward Area Committee, M.C.D., Declared best NCC Officer in the All India NCC Training held in PURENDER, in 1974 and was awarded Silver Cane of Honour He was also the Member, Education Advisory Board, GNCTD, and Cooperative Development Board, GNCTD. He has been best Kabaddi player of India & had played National, Inter-Universities Gold Cup at Bombay and Captained the University team. He was declared the best player of the Universities, Punjab & Punjabi, Universities, Patiala. He has also been Chairperson of Punjab State in Wrestling in the National Championship. He is well renounced as a Social Worker and his contributions are excellent for the communities. He has provided guidance of par excellence to the Cooperative Movement in the country. As chairperson in the various cooperative federations namely, National Cooperative Federation of India, National Federation of State Cooperative Bank (NFSCB), Navi Mumbai and member of various organisations dealing with cooperation and rural development, he is providing guidance. As a president of NHRDF, he is currently providing guidance for research and development of onion and as Chairman to NAFED he is upscaling the cooperative marketing of the agricultural and horticultural produce,

**Address:** Dr. Bijender Singh, The Delhi State Cooperative Bank Ltd., 31, Netaji Subhash Marg, Darya Ganj, New Delhi-110 002 Tel: 23241218, 23270678; E-mail: president.dscb@gmail.com; chairman@nafed-india.com

### 3.1.2 Prof. Ajeet Kumar Karnatak, Vice Chancellor, MPUAT, Udaipur, Rajasthan (CF-351)



**Dr. Ajeet Kumar Karnatak**, Vice-Chancellor, Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) since October 15, 2022, was born at Almora, Uttarakhand on July 9, 1959. Before joining MPUAT, he served as Vice-Chancellor in the Veer Chandra Singh Garhwali Uttarakhand University of Horticulture & Forestry, Bharsar, Pauri-Garhwal, July 22, 2019 - October 12, 2022. Concomitantly, he also served as Vice-Chancellor, Doon University, Dehradun from December 14, 2019 to December 15, 2020. Dr. A.K. Karnatak had earned his Ph.D., Entomology from GBPUAT, Pantnagar in 1985. He has 21 years of experience in academics as Professor and in a career spanning 38 years of experience in teaching, research & extension. Starting his career at NDUAT, Faizabad, for a brief period of nine month, Dr. Karnatak joined at GBPUAT, Pantnagar in September 1985 where he served with distinction in various capacities till taking over as the Vice-Chancellor of VCSGUUHF, Bharsar in July, 2019. During his services at Pantnagar, he was entrusted with several administrative responsibilities like Warden, Associate Dean Student Welfare, Associate Director Liberal Education, Estate Officer, Director Monitoring, Chief Security Officer, Chief Vigilance Officer, Chief Personnel Officer, Dean Student Welfare, Head of the Department, and Additional Director Administration & Monitoring etc. Dr. Ajeet Kumar has guided 15 Ph.D. & 21 M.Sc. students. He participated in more than 58 National and 14 International Conferences and has published 5 books, several book chapters, more than 109 research papers in refereed journals of international and national repute, and also 67 popular articles. He has completed 15 research projects. He is credited to have developed many innovative technologies, which widely adopted. He persuades 3 academic programmes and articulated 4 important MoUs for academic collaborations. His outstanding contributions have earned him more than 13 awards of high

esteem like Scientist of the Year, Dr. R.S. Paroda Award, Dr. S.L. Mishra Medal etc. Recently Dr. Karnatak was bestowed with exalted CHAI-Honorary Fellow-2020, at PJTSAU, Hyderabad. Looking to his outstanding work, Dr. Karnatak was conferred the 'Best Vice-Chancellor of the Year-2021 Award' on Teachers Day by Hon'ble Chief Minister of Uttarakhand and Honour by Principals' Progressive Schools' Association, Uttarakhand in October, 2021. He has worked as chairman of peer review team (PRT) for accreditation of College of Horticulture, Bengaluru under the aegis of UHS, Bagalkot.

**Address:** Prof. Ajeet Kumar Karnatak, Vice Chancellor, Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan); 9412120801/ 7668867331; Email: vc27uuhfm@gmail.com/patovc1987@gmail.com

### 3.1.3 Dr. J.C. Rajput, Director, R&D, Nirmal Seeds Pvt. Ltd., Pachora, Jalgaon (MS) (CF-0054)



Born on June 1, 1951 at Chaugaoon, Maharashtra obtained his M.Sc. (Ag.) degree from Konkan Krishi Vidyapeeth, Dapoli (MS) and Ph.D. (Hort.) in vegetable science from University of Agriculture Science, Bangalore, with distinction. He had one year overseas training in Tree breeding & Forest Genetics in Mississippi State University, U.S.A. Dr. Rajput served as a vegetable specialist for 18 years and Associate Director of Research for two years at Konkan Krishi Vidyapeeth, Dapoli, Maharashtra, Presently, he is working as Director, Research & Development, Nirmal Seeds Pvt. Ltd., Pachora, Jalgaon (MS), since 1998. **Achievements:** His contributions include the release of nine new vegetable varieties from KKV, Dapoli and 114 hybrids that have been developed under his leadership at Nirmal Seeds Pvt. Ltd. Pachora, Jalgaon. He visited 30 countries for participating in scientific and professional Events. In last 20 years, he is dedicated to farmer's community to commercialize hybrid seeds, Bio-pesticides & Bio products for yield maximization, organic farming & export-oriented production of fruits, vegetables & flowers. He guided 16 PG students in Horticulture. **Awards and Recognitions:** He is recipient of ICAR Sr. Fellowship for Ph. D. National Seed Corporation, New Delhi awarded First prize in 1980 for 1<sup>st</sup> Rank in vegetable seed production training. He received many awards: Vasant Rao Naik Memorial Gold Medal (1993); Abasahed Kubal Horticultural Award (1993); Baliraja- Dr. Rahudkar Granth Paritoshik Award; Deshdoot Krishi Award (2005); The Horticultural Society of India Gold Medal for 2006. Fellow of Maharashtra Academy of Science, Horticultural society of India, Confederation of Horticulture Associations of India and Life member of Horticulture Society of India, Plant Breeding & Genetics, Indian Society of Oilseeds, Vegetable Science and Annals of Agriculture. Patron of Society for Promotion of Horticulture (SPH, IIHR). **Research Publications:** He has published 02 books on vegetable cultivation & 05 bulletins in Marathi. He has authored 156 research/technical and popular articles.

**Address:** Director, Research & Development, Nirmal Seeds Pvt. Ltd., Pachora, Jalgaon (MS), Tel: 02596-244366, 244396, E-mail: drjrcrajput@nirmalseedsindia.com, jaysingcrajput@gmail.com

## 4.0 CHAI- DR R S PARODA AWARD-2023

This award instituted in the name of Padma Bhushan, Dr. R.S. Paroda, in recognition to his contributions in national and international development of Agriculture, to recognize the individual for scientific excellence in Agriculture, specially Horticulture, Biotechnology and Environmental Sciences, given once in a year.

### 4.1 CHAI-DR R S PARODA AWARD-2023

#### 4.1.1 Dr. Tusar Kanti Behera, Director, ICAR-IIVR, Jakhini, Varanasi, UP (CF-394)



**Dr. T. K. Bahera**, born at village Brahmapur, Balasore, Odisha, graduated from OUAT-Bhubaneswar, Odisha and earned his Ph. D. from Indian Agricultural Research Institute, New Delhi and completed Post-Doctoral Fellowship programme at University of Wisconsin, USA. Presently, he is working as the Director, ICAR-Indian Institute of Vegetable Research. Before joining to the post of Director, he worked as scientist to principal scientist in Division of Vegetable Science, ICAR-Indian Agricultural Research Institute, New Delhi. He also served as the Professor in the Discipline of Vegetable Science, P G School, IARI and Nodal Officer, ICAR- IARI, Jharkhand, Hazaribag. Dr Behera is associated in developing 23 varieties and hybrids in brinjal, cucumber and gourds, those are released through CVRC and State Seed Sub-committee for Variety Release and Notification. Few of these varieties are licensed to Pvt seed companies for seed production and commercialisation. He isolated gynocious lines in bitter melon from its feral form, *Momordica charantia* var *muricata* and introgressed gy-1 gene into commercial cultivars of bitter melon, those are licensed to seed companies through MOU. He introgressed gynocious trait (F locus) in Indian cucumber using marker assisted back cross breeding (MABC). A bitter melon variety, Pusa Rasdar developed by him is exclusively suitable for protected cultivation. He guided 12 Ph. D and 2 M.Sc. students at P.G School, IARI, New Delhi. He served as chairman of the sub-committee to develop post graduate course curriculum on Horticulture for IM-ACRE programme of Myanmar and ANASTU, Afghanistan. He has published 125 papers in peer reviewed journal, edited 3 Books and authored 15 book chapters and 7 training manuals. He was deputed to USA, Australia, France, Russia, Thailand, Libya for academic assignments. He was the member of XI Five Year plan for Horticulture, Plantation Crops and Organic Farming, RAC (ICAR-DMR, Solan & BAU, and Bhagalpur) and Institute Management Committee of ICAR- IIVR, Bengaluru, ICAR - CCARI, Goa, ICAR- CIAH, Bikaner and ICAR-DOGR, Pune. He also served as FAO International Consultant in Vegetable Breeding at Libya 2010. He is Fellow of Fulbright-Nehru Academic and Professional Excellence (USIEF), National Academy of Agricultural Sciences (NAAS), Indian Society of Plant Breeding and Genetics (ISGPB), Indian Academy of Horticultural Science (IAHS), Indian Society of Vegetable Science (ISVS) and Confederation of Horticulture Associations of India.

**Address:** Prof. Tusar Kanti Behera, Director, ICAR-Indian Institute of Vegetable Research, Jakhini, Shahanshapur, Varanasi 221305; Email:Director.IIVR@icar.gov.in; Mob.: 9868342628; Landline; 0542-297 5111

## 5.0 CHAI Padma Shri B H JAIN AWARD

This award is instituted in the Name of Padma Shri Dr B.H Jain, who had passion for knowledge based agriculture, and empowerment of youth and farmers with new technology to make the farming profitable. CHAI- Dr. B. H. Jain Award, recognises an excellence in knowledge dissemination for the extension workers and teachers in agriculture.

## 5.1 CHAI-DR B H JAIN AWARD-2023

### 5.1.1 Dr. A.V. Dhake, Vice President, Jain Irrigation Systems, Jalgaon, Maharashtra (CF-231)



**Dr. Anil V. Dhake**, born on 20 May, 1962 in Village Varangaon, Bhusaval, Jalgaon, Maharashtra, graduated in Agriculture from PKV, Akola and earned his M.Sc and Ph.D in Soil Science, from MPKV, Rahuri in 1987 and 1995, respectively. Dr. Dhake started his career as farm manager at Jain Irrigation Systems Limited (JISL), Jalgaon in 1988, held various positions and is now Sr. Vice President of Agri R&D farms. In a career spanning 34 years Dr. Dhake contributed for standardisation and demonstration of hi-tech cultivation practices for onion, banana and mango. He is credited for the development of several varieties of onion with high TSS, which are well adopted by the farmers in contract farming. Dr. Dhake is associated in the development of successful model contract farming adopted by the company. He is also instrumental in introducing Brazilian varieties of citrus, its multiplication and demonstration for adoption by farmers. Dr. Dhake is associated in demonstrating UHDP practices among farmers in Maharashtra. His role in wasteland development is well acknowledged. Owing to his contribution, Dr Dhake, is recognised guide for Ph.d. He has guided 5 students. He is widely traveled in India and abroad, visited various countries like USA, Brazil, Australia, Germany, United Kingdom, France, Spain, Netherlands, Bhutan, Honduras, Thailand, Japan, Israel, Iran, Turkey, Australia, Argentina, Mexico, etc for academic and business purposes. He has published many articles and presented papers in national and international conferences.

Address : Dr. Anil Dhake, Vice President, Jain Irrigation Systems Ltd. Jain Agri Park, Jain Hills, PO Box- 72, Jalgaon-425001, www.jains.com email dr.dhake.anil@jains.com tel:0257-226001 Mobile :09422775924

## 6.0 CHAI- RAMANANDAN BABU AWARD

This award recognises the innovations of individuals in farming for enhanced productivity of land and water, and generating higher income per unit of land. This award is given once in a year and consists of citation, a plaque of honour and certificate. He or she conferred with award shall be eligible to seek financial assistance for upgradation of knowledge. The validity of award, for seeking financial assistance, is for the period of two years, from the date of conferment.

### 6.1 CHAI- RAMANANDAN BABU AWARD-2023

#### 6.1.1 Shri Rajaram Ganu Mahajan, Tandalwadi, Raver, Jalgaon, Maharashtra (CF-408)



**Shri. Rajaram Mahajan**, born on June 03, 1939 in the village Tandalwadi, in a farming family, after his schooling, joined with his father in farming activities. Being an innovative personality, Mr Mahajan was always ahead of time. He was the first farmer, who installed PVC pipeline from river Tapi to his farm in 1972 and initiated promotion of Hi-tech farming in Banana. He adopted drip irrigation for grapes, teakwood, pomegranate & banana in 1999. He has adopted tissue culture technology in banana and is growing about 1.5 lakh plants on raised beds. Shri.Rajaram Mahajan, a progressive banana grower, served the community as a Member of Legislative Assembly(MLA) in the year 1999. He was vice president of Zilha Parishad Jalgaon and also of the Tapi Khore Vikas Mahamandal, Mumbai. At the age of 84 years. Shri. Mahajan is very active in farming activities. He grows export quality bananas and his banana has been exported for the last 6-7 years. He has 250 acres of irrigated

land and is growing bananas in 100 acres. He has provided a leadership of par excellence to the farmers for the adoption of modern farming practices. His dynamic vision has created a roadmap for the banana growers.

**Address:** Shri. Rajaram Ganu Mahajan, Tandalwadi, Raver, Jalgaon, Maharashtra: Cell: 9823039057

## 7.0 CHAI- CHAUTILYA LOKNITI AWARD

Award is instituted in the name of an ancient Indian polymath, Chanakya, who was active as a teacher, author, strategist, philosopher, economist, jurist, and royal advisor. Chanakya has been traditionally identified as Kautilya or Vishnugupta. The award thus recognises the excellence in philosophy, public policy, teaching and strategies development. This award will be given once in a year and shall consist of citation, a plaque of honour and certificate.

### 7.1 CHAI- CHAUTILYA LOKNITI AWARD- 2023

#### 7.1.1 Dr. Bhongle Sudhir Jagannath, Shiveteerath Nagar, Pune, Maharashtra (CF-261)



**Bhongle Sudhir Jagannath**, Born on 17<sup>th</sup> July, 1965, in village Jejuri, Purandhar, Pune, obtained his Bachelor of Commerce (B.Com), and Communication and journalism, in 1985 and 1986, respectively, from the Pune University, Pune. He earned his Masters, MA Economics, 1988, M A, Political Science, 1990, M.Phil, 1993, PhD, 1997 and Post Doctor (D. Litt.), 2007, from Pune University. He started his career in December, 1985, as a chief reporter in Marathi daily magazine (Sakaal) and continued till December, 1998. In 1999, he became a freelance journalist and columnist, writing on agriculture, water, cooperation, rural development, sugar business, fruit processing and continued till 2008, covering his subject in most of the leading papers and magazine in Maharashtra. He then joined as editor of Rashtravadi magazine, Mumbai in 2008. He continues his services there besides writing columns in magazines and books.

He has published more than 10 books, to name the few are: Agriculture in Israel, 1984, Politics of Water, 1988, Krishi Chintan, 2003, Panidar, 2004, Vikash Wata, 2005, Krishi Water Dispute, 2006, Jal-Chintan, 2008, Badal Mala 2010, Intended Dispute, 2013, and Appulachi Vad Appanashi, 2013. He has also edited many books which includes, Green Revolution- second chintan, Aar paar, Bikat Wati Najuk Dhat, Zep etc. For his exemplary work on dissemination of knowledge for the benefit of farmers, he has been conferred with many awards. His book on politics of water got Padam Shree Vittahalrao Vikahey Patil award in 1998. The Government of Maharashtra has awarded him for his excellence in journalism. He is also recipient of Krishi Bhushan Award, from Govt. of Maharashtra, 2006 and Linkraj Das memorial trophy from IWWI, for community participation for water management. He is a recipient of Dr. C. D. Mayee Agriculture Expert Award from Agriculture Development Trust, Nagpur, July, 2022. Dr. Annasaheb Shinde Smriti award, Amrutwahini Agriculture and Development Institute, October 2022. Late Dr. Appasaheb alias S. R. Patil social work Award, April 2023.

He was a member of Maharashtra Government Agriculture Price Commission from 1986 to 1996. Presented a report on how to restructure the Irrigation Department to Yashada Institute. Prepared the Syllabus on Water Journalism in the Department of Journalism, Bhopal University, Madhya Pradesh. He was an expert Invitee member of Maharashtra Water Resources Regulatory Authority for 10 yrs. (2005 to 2015). During this tenure contributed mainly in regulating water distribution and water tariff.

Dr. Bongle, in his career spanning 30 years, has delivered more than 2500 lectures on the subject of agriculture, water, rural development and environment. He has also been a member in the various important committees, namely Water Conservation Committee, Agriculture Price Commission and Education Committee. Spand First International Agriculture Exhibition, held in Delhi in 1959 to 1960. Adhar stambh – Sharad Pawar’s contribution to Indian Sugar Industry. He is widely travelled and has visited abroad, especially Israel. He is sharing his knowledge and thoughts for the development of agriculture and livelihood of people.

**Address:** 10, Yojangandha Society, Paud Road, Kothrud, Shreepati Surat Path, Shiveteerath Nagar Pune-411023, Mob: 09823057485; Email: diliprode@gmail.com; sudhirbhongli@gmail.com

## 8.0 CHAI-JISL Fellowship Award

JISL Fellowship is sponsored by Jain Irrigation System to encourage the talented individual for participation in International conferences and training abroad through financial assistance. This fellowship recognises the contributions of Awardee to the furtherance of horticulture.

### 8.1 CHAI-JISL Fellowship Award-2023

#### 8.1.1 Dr. H. Usha Nandhini Devi (CF-395)



**Dr. H. Usha Nandhini Devi**, working as Associate Professor (Horticulture), Department of Vegetable Science, Horticultural College and Research Institute, Tamil Nadu Agricultural University (TNAU), Coimbatore, earned her B Sc, M Sc and Ph D, in Horticulture from TNAU, in 1997, 2000, and 2004, respectively. As a chilli breeder, she has developed highly pungent chilli line, which has industrial application (SHU – 1, 88,800). She has identified rootstock from annual chilli. She is also associated with the release of ash-gourd hybrid CO1 and had been actively involved in breeder seed production of vegetable crops, which helped in popularisation of TNAU varieties and hybrids among farmers. As a member of Board of Studies, she contributed in the revision of syllabus and restructuring of the courses according to 5th Dean’s Committee recommendations of ICAR. She has handled 50 courses for undergraduate and post graduate programme and has guided four M.Sc students. During 2018- 2019, the AICRP Centre on vegetable was adjudged as best centre and Lt Amit Singh Memorial award was conferred for contributions in AICRP Vegetables crops. During 2020–2021, she was recognised an active coordinating scientist in the project on Doubling Farmers’ income. Her paper was adjudged the best in International Conference on Dry Zone Agriculture at the Faculty of Agriculture, University of Jaffna, Sri Lanka, 2019. She is a recipient of H. S. Mehta Memorial Best Young Scientist Award, 2021 for research work on ash-gourd, chilli and other vegetables, Dr. B. P. Pal Memorial award for the contribution to science has been conferred on her. Achiever Award 2021 was conferred by the Society for advancement of Human and Nature (SADHNA). She is also a recipient of Best Faculty Award 2022 in recognition and appreciation of outstanding contributions to teaching, National Research Excellence Award, 2022 in Vegetable Science and Best oral presentation award in National conference during 2022 were also conferred on her. Recognising her contributions to teaching, TNAU conferred Best Teacher Award, 2022. She has published 12 books, 26 book chapters, 41 research articles, 23 research abstracts, 5 popular articles and 19 practical manuals.

**Address:** Dr. H. Usha Nandhini Devi, Associate Professor (Horticulture), Centre for Post Harvest Technology, Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore-0641003 ushanandhini@tnau.ac.in. Mobile No. : 94435 06237; E-mail: drushajana@rediffmail.com

## 9.0 CHAI-Dr. Ray Best Dissertation Award

This award recognises the research of the student at Ph.D. level by conferring Dr. Ray Best Dissertation Award, based on relevance of topic of research, quality of research, output and outcome and its application in the field of science. This award is given once in a year. The awardees' receives the certificate, plaque of honour and free subscription of Journal–International Journal of Innovative Horticulture, for the year.

### 9.1. CHAI-Dr. Ray Best Dissertation Award-2023

#### 9.1.1 Sumersing Patil, KBC North Maharashtra University, Jalgaon, Mahrastra

**Address:** Senior Executive, Jain Agri R&D Biotech Lab, Jain Hills, Jain Irrigation Systems Ltd., Shirsoli Road, Jalgaon-425001; Mob:9890262610; Email: psumersing@gmail.com; molbio2@jains.com; yadav.balkrishna@jains.com

Thesis Title: **Studies on flowering related genes of Mango (*Mangifera indica* L.).**

**9.1.2 Dr. Ravi Y.,** Department of Spices and Plantation Crops, Horticultural College and Research Institute, Tamil Nadu Agricultural University Coimbatore

Scientist, Spices, Planatation, Medicinal and Aromatic Crops, ICAR-NRC on Seed Spices, Ajmer, Rajasthan, India

Thesis Title: **Study of Metabolites and Genetic Variability for Growth, Yield and Proximate Compounds in *Nigella* (*Nigella Sativa* L.)**

## 10.0 CHAI-KRITI SINGH BEST PAPER AWARD for the Article Published in IJH

This award encourages publication of high quality paper in International Journal of Innovative Horticulture. The recipient of award shall be honoured with certificate and Medal. The awardee shall also receive two issues of the Journal in which Paper is published. This award is named after Dr Kirti Singh who has significantly contributed in shaping Indian Horticulture, especially in academic excellence.

### 10.1. CHAI- Kirti Singh Best Paper Award 2023

**10.1.1 Dalasanuru Chandregowda Manjunathagowda, Vijay Mahajan, Ram Dutta, and Dr. Major Singh, 2022,** Identification of CMS-S male-sterile cytoplasm among the bunching onion (*Allium fistulosum* L.) collections, IJH Vol. 11, 124-126, ICAR-Directorate of Onion and Garlic Research, Rajgurunagar – 410505, Pune, Maharashtra, India. 2022. dcmgowda@gmail.com

## 11.0 CHAI-LIFE TIME RECOGNITION AWARD

This award recognises the life time contributions of an individual in research, development and extension of specific commodity, which succeeded in achieving unparalleled growth. This award is given once in a year or as decided by Board of Director or the Chairman, as the case may be, and shall consist of a citation, a plaque of honour and certificate. He or she conferred with award shall be eligible



to seek financial assistance. The validity of the award for seeking financial assistance will be for the period of two years, from the date of announcement of selection. The awardee shall become the Fellow of CHAI and can avail all the benefits admissible to the Fellow of CHAI.

### 11.1 CHAI-LIFE TIME RECOGNITION AWARD-2023

#### 11.1.1 Dr. Balraj Singh, Vice Chancellor, SKN Agriculture University, JOBNER, JAIPUR, Rajasthan (CF-223)



Born on 15<sup>th</sup> July, 1963, graduated in Agriculture with Honors, in 1984 and obtained his M. Sc. (Hort.) in 1986 from CCS University, Meerut, (UP). He earned his Ph.D. in Vegetable Science from CCSHAU, Hisar, Haryana in 1991. Dr. Singh started his career as Asstt. Professor (Hort.) at KVK, Kumher, Bharatpur in April, 1989, there after he worked at AICRP on Vegetables, ARS Durgapura, Jaipur, from 1991. He joined at ICAR-CAZRI Jodhpur (Rajasthan) in 1998 as Senior Scientist. Subsequently, after transfer to IARI he served in Indo-Israel Project (CPCT) as Senior Scientist, Principal Scientist and occupied the position of Head, CPCT, ICAR-IARI, New Delhi. On 1<sup>st</sup> September 2012, he joined as Director, ICAR-NRCSS, Ajmer (Rajasthan). In year 2016, he was selected as Horticulture Commissioner by GOI as well as Vice Chancellor by Government of Rajasthan. He preferred to provide leadership as Vice Chancellor of Agriculture University, Jodhpur, Rajasthan. After successful completion of his three years term of vice chancellor he joined back ICAR and worked as Project Coordinator, Honey Bees and Pollinators at ICAR - IARI, New Delhi. Currently he is the Vice Chancellor, SKN Agriculture University, JOBNER, JAIPUR. He is credited to have initiated R&D work on protected cultivation and precision farming in the country under the Indo-Israel Collaborative Project at IARI, New Delhi and has standardised numerous cost effective and energy efficient protected cultivation technologies suitable for different agro-climatic conditions for vegetable production. As a resource person, he has been the member of Working Groups formed in many Indian States for implementation of Protected Cultivation. Dr. Singh has been awarded the Dr. Kirti Singh Gold Medal, 2015 by Horticulture Society of India for his contributions to the field of Vegetable Sciences). Dr. Singh is also a recipient Veer Durgadas Award, 2018 at AU, Jodhpur by H.H. Maharaja Gaj Singh of Jodhpur. Dr. Singh is the founder Secretary of the Indian Society for Protected Cultivation and President of the Indian Society of Seed Spices, Ajmer. He has been the Vice President of Indian Society of Seed Technology and Fellow member of Academy of Sciences, Engineering and Technology; Indian Society of Seed Technology; Horticulture Society of India, Indian Society of Seed Spices. He had training in Leadership and Decision Making at Harvard Kennedy School, Cambridge, USA and has also represented India at various international forums as oral/ lead speakers in conferences and seminars. He has published 155 research papers, 35 book chapters 120 technical and popular articles, 5 books, 15 bulletins. He is now providing academic leadership as vice chancellor.

**Address:** Dr. Balraj Singh, Vice Chancellor, SKN Agriculture University, JOBNER, JAIPUR; E-Mail- info@sknau.ac.in, vc@sknau.ac.in; Mobile: +91-8104736333, 9811271303, 011- 25840085 drbsingh2000@yahoo.com

## 12.0 CHAI-APPRECIATION AWARD

This award recognises the contributions of an individual in his or her career for the advancement of technology- led development with a set goals and objectives. This award is given once in a year or as decided by the Board of Director or Chairman, as the case may be, and consist of a citation, a plaque of honour and certificate. He or she conferred with award is eligible to seek financial assistance. The validity of the award for seeking financial assistance is for the period of two years, from the date of conferment of award.

### 12.1 CHAI-APPRECIATION AWARD-2023

#### 12.1.1 Dr Ram Awadh Ram, Ex-Principal Scientist, CISH, Rehmankhera, Lucknow (CF-409)



**Dr. Ram Awadh Ram** was born on 3<sup>rd</sup> July 1960 in village of Kauria Bazaar, Azamgar, Uttar Pradesh and completed graduation and post graduation in agriculture and horticulture from Narendra Dev University of Agriculture and Technology, Ayodhya, U.P. & Ph. D. from Bidhan Chandra Krishi Viswa Vidyalaya, Kalyani, W. B. He has worked extensively on nutrient management in mango and guava for 10 years and developed technologies for nutrients source, method and time of application. Since 2000, he started research programme on organic farming in horticultural crops and nursery management and developed new method of grafting technique in aonla and bael, which has become common method of propagation in northern India. He also worked on organic management of horticultural crops and concentrated on on-farm production of quality organic inputs using locally available materials and developed a model for production of quality composts, bio-enhancers and bio-pesticides. He has published technical bulletins, extension folders and practical training videos in Hindi and English on organic production. He has participated/delivered lectures in more than 100 seminar/symposium/conference on organic farming and nursery management in fruit crops. He has published 05 books, 13 book chapters, 42 popular articles, 44 research articles in national and international journals, 27 extension bulletins, extension folders and practical manual on organic production. He has organised 65 training programmes, 2 National seminars. He has been appointed as consultant of organic farming to Uttarakhand government from 2004- 2007, as resource person to IFAD for Organic Agriculture for Poverty Reduction in Asia during 2005. He has promoted organic farming practices in NEH regions of India through trainings and demonstrations for more than decade and contributed to Sikkim has been declared as first organic state of India in 2014. He has developed model for on farm organic puts production, package of organic production of horticultural crops and CISH-Bioenhancer (microbial consortium). He has received appreciation letters from different states of North East and various organisations. He has been conferred ISHRD Fellowship- 2014, SHRD Fellowship-2018, UP Academy of Agricultural Sciences Fellow-2016. He has been awarded for outstanding contributions in improving Livelihood Security through Livestock based Farming System in Barabanki and Raibareli districts of U.P of thousand farmers by DG, ICAR and Secretary DARE in 2011 and Raj Bhasha Gaurav Puraskar-2021 on his book "Jaivik Kheti".

**Address:** Dr. Ram Awadh Ram, Former Principal Scientist (Horticulture) & Head, Crop Production Division, ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow-226 101, India; Mob-09415459464, E-mail-raram\_cish@yahoo.co.in

### 12.1.2 Dr. Dayaram, Former Head, Department of Mycology, DRPCAU, Pusa, Bihar (CF-410)



Born in Mahimapur Deeh, Nauperwa, Jaunpur (UttarPradesh), Dr. Dayaram completed schooling at Adarsh Inter College Sambhuganj, Jaunpur and obtained B.Sc. (Agriculture, 1979) from Gorakhpur University. He earned his M.Sc. (Ag.), and Ph.D. in Mycology & Plant Pathology from BHU, Varanasi in 1983 and 1989, respectively. Starting his career as Assistant Professor (Plant Pathology) in 1991, he became Associate Professor in 2000 and Professor in 2008. Subsequently, he took the responsibility of Project Director at Advance Centre of Mushroom Research, in 2019, and HoD of the Department of Microbiology (2019) and continued till retirement (31.05.2022). He has contributed significantly to Fungal Taxonomy with specialization in mushroom domestication, production, protection and management and also dissemination of mushroom products technology among rural masses. He has developed mushroom production Technology and 20 mushroom products. Four mushroom products i.e. Rajendra Pusa Mushroom Mini Samosa, Rajendra Pusa Mushroom Biscuit, Mushroom Paneer and Mushroom are commercialised. Dr Dayaram is credited to have 4 patents and one mushroom variety, Rajendra Mushroom Dudia. He has published more than 75 research papers in high impact journals, 5 book chapters, 10 research based articles, 10 extension bulletins on mushroom, 2 practical manual and 110 popular articles. He has guided 5 M.Sc. and 1 Ph.D. students. He is credited for establishing Advance Center of Mushroom Research (with 6 components) Mushroom Spawn Production, Mushroom Compost Production, Mushroom Production, Mushroom Processing and Packaging, Mushroom Products Development. He is also credited to have established 165 control unit of button mushroom production and 65 spawn lab in Bihar with his technical assistance. He Organised seminar and brainstorming sessions on mushroom. He developed M.Sc. (Ag) 2018 and Ph.D. (2022) courses in Microbiology and one year Certificate Course on Mushroom Cultivation Technology, 2021-22. He was QRT Member of AICRP on Mushroom. Dr Dayaram is fellow of Indian Phytopathological Society (FIPS) and Indian Society of Mycology & Plant Pathology (ISMPP). Dr. Dayaram is recipient of awards which includes, Swami Sahzanand Saraswati Best Extension Scientist Award - 2012, ICAR Award for Outstanding Extension Awarded, 2013, Distinguished Scientist of the year 2022 (RPCAU, Pusa). His centre was recognised as Best extension center of AICRP, during 2019-20 and 2022-23.

**Address:** Dr. Dayaram, Ex-Prof. of Plant Pathology & Project Director, ACMR, RPCAU, Pusa, Samastipur (Bihar); Email: dayaram@rpcau.ac.in Phone 9430464088

## 13. CHAI-Achiever's Award

### 13.1 CHAI-Achiever's Award- 2023

#### 13.1.1 Prof. Arvind Kumar, Former Vice-Chancellor, RLBCAU, Jhansi, UP (CF-352)



**Prof Arvind Kumar** stands out as a Scientist, Science Leader, and Educator who has made significant contributions for making agriculture science and technology-led, increasing oilseed production and farmers' income through diversification. Born on July 4, 1952, Prof Kumar has more than 45 years of experience and has held eminent positions in various government organisations. He is a globally renowned rapeseed-mustard scientist, educator, and institution builder, who is credited with establishing the first Agricultural Institution of National Importance, Rani Lakshmi Bai Central Agricultural University (RLBCAU) in 2014. Prior to this assignment Prof. Kumar worked as Deputy Director General (Education), ICAR, New Delhi from 2009–2014, held the additional charge of Deputy Director

General (Fisheries), ICAR, New Delhi for about 5 months and was the Director of Directorate of Rapeseed-Mustard Research (DRMR), Bharatpur from 2002 to 2009. He is immensely recognised for promoting farm literacy, establishing partnerships between farmers and researchers, and dedicating his life to science and society, bringing key reforms in agricultural research, education and development. During his 8-yr tenure at RLBCAU, Jhansi (2014-22) the university acquired 300 acres land and built state-of-the-art, eco-friendly academic, administrative, and world-class amenities for the Colleges of Agriculture, Horticulture, and Forestry, which were inaugurated by Hon'ble PM Shri Narendra Modi. His vision facilitated solar harvesting to reduce electricity bills by 35%, a massive plantation to make the campus greener, water-harvesting, and climate-resilient cultivation practices for Bundelkhand. Foundation stone of Colleges of Veterinary and Animal Sciences and Fisheries, Datia was also laid by Hon'ble AM Shri N.S. Tomarji. His tireless efforts resulted in appointments to various positions; establishment of several UG and PG programs, national and international collaborative projects, innovative schemes, resulting in the University becoming a model institution, leading in agricultural education and research. In 2021, RLBCAU received an award for the best infrastructural facilities by Agriculture Today. As chairman of the committee, he drafted a document for doubling farmers' income in UP State and established seed-production hubs for oilseeds, pulses, and millets to meet the demand for quality seeds. Massive demonstration of improved technologies and introduction of new varieties increased farmers' income in the region. He also led the core committee that restructured agricultural education in 17 broad subject areas which was implemented throughout the country.

Several initiatives and policies for improvement of agriculture education in India were implemented under his dynamic leadership as DDG Education, ICAR. He drafted Acts, Statutes, and relevant regulations for establishment of RLBCAU, Jhansi in impoverished Bundelkhand to address region's challenges of sustainable food security, and economic growth. He developed policies for higher agricultural education and establishment of Central Agricultural Universities, as well as several reforms such as the World Bank-aided National Agricultural Higher Education Project, student Rural Entrepreneurship and Awareness Development Yojna (READY). He facilitated linkages between agriculture universities in cutting-edge areas and leading institutions around world by processing memorandums of understanding for international collaborations and linkages. In various universities, niche-areas of excellence and experiential learning units were established to strengthen research and student entrepreneurial skills. As Director of ICAR- DRMR, Bharatpur, DRMR flourished during his visionary leadership, accomplished major campus development including furnishing of laboratories and development of first mori CMS based hybrid NRCHB506 in India. He also contributed to the development of four high-yielding rapeseed-mustard varieties. He implemented and monitored technical program on Brassica at 22 research and 12 verification centers across country, resulting in identification/release of 53 varieties of oilseed Brassica. During his tenure, rapeseed-mustard production increased from 5.1 m t to an all-time high of 8.1 m t. Registered a promising disease resistant material-NRCDR-515 with NBPGR, and 35 germplasms in Rapeseed-mustard. He has 27 years of teaching and research experience at GBPUAT, Pantnagar. As Joint Director Extension, he assisted in the establishment of new KVKs and streamlined various extension activities in the university. He has received several awards and fellowships for his professional achievements, including the ISA Gold Medal and the Life Time Achievement Award of ISA and SRMR. He is also fellow of several prestigious societies like National Academy of Agricultural Sciences, National Environmental Science Academy, ISA, ISOR, SEE, CHAI, etc. He also served as President of the ISOR, ISA, and SRMR. He has also received prestigious awards like Delhi Ratan, UP Ratan, Harit-Ratan Award, and D Rajendra Prasad Purushkar. He was awarded membership by International Consultative Group for Research on Rapeseed, Paris for his outstanding contribution and has extensive national and

international exposure. He has been the member of the Board of Management of several national reputed institutions like IARI, GBPUA&T, CAU, Imphal, SKUAS&T, Jammu, NDRI, Karnal and he was also member of Governing Board of ICAR. He has published more than 160 research papers in Indian and foreign journals, 85 popular articles, 56 books/ booklets/ chapters and presented more than 195 papers in National and International Conferences on aspects of oilseed research and management. He has vast National and International experience and visited 25 countries for Professional reasons. During the year, Dr Arvind Kumar received a highest civilian award - Padama Shree from Her Excellency the president of Indus for his exceptionally outstanding contributions to agricultural Sciences.

**Address:** Prof. Arvind Kumar, Former Vice-Chancellor, RLBCAU, Flat no. 515, Carnation Tower, Gaur Saundaryam, Iteda, Greater Noida West, Gautam Buddha Nagar – 201318, Uttar Pradesh; Cell: 9711008862; Email: akrlbcou@gmail.com

### 13.1.2 Dr. A. K. Singh, Vice-Chancellor, RLBCAU, Jhansi, Uttar Pradesh (CF-218)



**Dr Ashok K Singh**, born in 1962 at Kushinagar, Uttar Pradesh, his schooling at FMIC, Tamkohiraj Kushinagar, earned his B Sc (Ag & AH ), M Sc (Agril. Extn.) and Ph.D in Agril. Extension, from CSAUA&T, Kanpur, where he started his career as Asstt. Professor in 1987 and led the extension education programme of the University and then joined ICAR as Zonal Coordinator in July 2005, which was subsequently, upgraded to the Director in 2010. He joined as Assistant Director General (Agricultural Extension) at headquarter in 2014 became DDG Ag. Extension, ICAR in later part of 2014. He served as Director, IARI, New Delhi also, as additional charge. Presently, he is serving as Vice Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi, U. P. He was involved in policy planning, project formulation and monitoring for effective diffusion and adoption of technology through 642 KVKs spread across the country. Dr Singh, in his career spanning 29 years has outstandingly contributed to teaching; research and extension work both in agricultural university and Indian Council of Agricultural Research. He has outstandingly contributed to technology dissemination aimed at harnessing pulses technology leading to productivity gains. He has been instrumental in developing, ICT based advisory model for farmers, Strategic Research and Extension Plan (SREP) and Farmer FIRST model of ICAR. He initiated programs on summer groundnut, bee keeping, vegetables, hybrid rice, summer Mungbean resource-conservation, climate resilient technologies, and drought mitigation interventions, which have impacted agriculture. As an organiser, he is credited to have provided leadership in organization of 16 seminars/conferences including Future Agricultural Extension in 2010; Extension Strategy for Bundelkhand Region; four National seminars under the aegis of Society of Extension Education; 8 National KVK Conferences and two International Conferences. He has guided 10 Ph. D. and 12 M. Sc. students. Dr. Singh has chaired various committee for framing policy and evaluation. He visited-Netherlands, Mangolia, Ethiopia, Thailand, France, Belgium, and China in relation to academic/ collaborative programmes. He was a part of Indian delegation to South Africa for feasibility study of KVKs and to Netherlands for studying the extension system. His contribution to Ag Extn has earned him 15 awards/recognitions including Swami Shahajanand Sarswati Outstanding Extension Scientist Award of ICAR. He has published 120 research papers, 18 Books and 14 Book Chapters, and Study report for FAO/UNDP/World Bank aided projects in Uttar Pradesh. Currently, he is providing academic leadership as vice chancellor of a prestigious central Agricultural University

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### 13.1.3 Dr. D. R. SINGH Vice Chancellor, BAU, Sabour, Bhagalpur, Bihar (CF-356)



**Dr. D. R. Singh**, presently the Vice Chancellor, Bihar Agricultural University, Sabour Bhagalpur, Bihar, has more than 28 years of wide experience as a horticulturist, teacher, researcher and research manager of a reputed ICAR Institutions having vested with wide ranging responsibilities, viz., planning, guiding, implementing and administering multi-disciplinary and multi-commodity researches, extension and outreach programmes, advising policy makers on several thematic issues of agricultural R & D and farming systems research and extension. He has developed 17 varieties of different horticultural crops, several products and agro techniques, innovative institutional mechanisms in horticulture sector, registered unique germ-palms, developed several databases and apps, technology modules for wider application of technologies, demonstration and usage of ICTs. Dr. Singh is a Recipient of many awards and recognitions from various state/national and international organisations, and also received best worker award, fellow of professional society, Pandit Deen Dayal Untodya Krishi Puraskar, Genome Savoir award, Best innovative farmer and several state level farmers awards. He has 132 research papers to his credit and has authored 16 books, 35 bulletins, 45 technical reports and 8 policy papers. He has widely travelled in India and abroad. Currently, he is providing academic leadership as Vice Chancellor of a prestigious agricultural University.

**Address:** Dr. D.R. Singh, Vice Chancellor, Bihar Agricultural University, Sabour, Bhagalpur, Bihar India-813210; Email: vc@csauk.ac.in

### 13.1.4 Dr. Major Singh, Member, ASRB, DARE, MoAFW, New Delhi (CF-260)

Refer to as given in para 2.1.1

**Address:** Major Singh, Member, ASRB, KAB 1, Pusa Institute New Delhi Phone 8707073940, 91-9451579735 (M) Email: singhvns@gmail.com

### 13.1.5 Dr K V Prasad, Director, Directorate of Floricultural Research, Mundwa, Pune, Maharashtra (CF-196)



**Dr. K.V. Prasad**, Born on 28<sup>th</sup> June, 1966 at Hyderabad, completed his Bachelor's and Master's Programme at APAU, Tirupati and Ph.D. at IARI, New Delhi. He joined ARS in 1994 at IIHR and then joined IARI, New Delhi as Senior Scientist. Presently he is Director, Directorate of Floricultural Research, Pune. He worked on Orchids and Anthuriums at IIHR. He developed *in vitro* regeneration protocols from various explants for these two crops. At IARI, he worked on genetic improvement of rose and chrysanthemum using conventional and biotechnology tools. Dr. Prasad has developed 8 varieties of chrysanthemum. He was instrumental in developing the DUS test guidelines for rose and chrysanthemum for offering plant breeders rights. He developed the DNA fingerprinting profile of 150 Indian bred rose varieties/ mutants and species besides standardising the microclimate requirements of cut roses using phytotron facilities. He has developed *in vitro* expression and intensification of nutraceutical pigments from rose, calendula and chrysanthemum. He has guided 3 Ph.D and 5 M.Sc. students. He has been a member of various committees including sub group on floriculture of XI Planning Commission, Task Force of PPV & FRA. He is a recipient of the prestigious awards such as Dr. B. P. Pal Gold Medal, IARI, Gold Medal; Horticulture Society of India He is also fellow of the Horticultural Society of India, Indian Society of Ornamental Horticulture and Confederation of Horticulture

Associations of India (CHAI), New Delhi. Dr. Prasad has to his credit 80 publications comprising of 30 research papers in international and national journals, popular articles, book chapters, books, proceedings, compendia, production manuals, technical bulletins, success stories besides a number of presentations in National and International seminars.

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### 13.1.6 Dr. Kancherla Suresh, Director, ICAR-Indian Institute of Oil Palm Research, Andhra Pradesh (CF-386)



**Dr. Kancherla Suresh**, graduated in Agriculture and earned masters in Agriculture with specialisation in Plant Physiology, Andhra Pradesh Agricultural University, Tirupathi. During his post graduation, he worked on hydroponics-studies on iron deficiency in sesame cultivars. His doctoral programme was at Indian Agricultural Research Institute (IARI), New Delhi, where he worked on photosynthesis and nitrogen relationship in *Brassicacoenospecies*. He is worked as Principal Scientist (Plant Physiology) and Head, Division of Production System Management, and now he is the Director at ICAR-Indian Institute of Oil Palm Research, Andhra Pradesh. In his career spanning 27 years, he worked on oil palm and is credited to have established Plant Physiology and Leaf analysis laboratories and has handled nearly 20 research projects in areas like photosynthetic efficiency, drought tolerance, canopy architecture and radiation transfer, climate change, nutrient and water management, carbon sequestration, oil synthesis and salt tolerance. He has done his professional training on Oil Palm Canopy Architecture at CIRAD, Montpellier, France. He has published 50 research papers in reputed international and national journals and presented 40 papers in various international and national Conferences. He has developed technologies/ process/ concepts / mobile apps in oil palm. He was involved in development of Oil Palm hybrid, NRCOP-4 (Godavari Swarna), suitable for growing in Andhra Pradesh and Telangana. He has been instrumental in identification of 5 gene traits from oil palm field gene bank, which was registered at NBPGR, New Delhi. He conceived and implemented 5 inter-institutional projects with reputed national institutes and was involved in 5 consultancy projects on oil palm hybrid seed production and reassessment of potential areas in India. He was involved in preparation of EFC documents for ICAR-IIOPR. He has been in charge of Project Monitoring and Evaluation (PME) Cell of ICAR- IIOPR for the last 25 years. He has been involved in Monitoring of Research Activities of ICAR- IIOPR in the form of Performance Indicator, Results Framework Document, Project Information Management System, Institute Technology Management Unit, HYPM, etc. Dr Suresh has been recognised as Research Guide for M.Phil/Ph.D Scholars in Botany and Biochemistry by Acharya Nagarjuna University and Dr. YSRHU, Andhra Pradesh. He was nominated as Editor for Journal of Environmental Management and worked as Associate Editor and Editor-in-Chief for International Journal of Oil Palm. He is also a reviewer of 15 reputed International and National Journals. He is currently engaged in knowledge enhancement of physiological processes in oil palm and is providing leadership in oil palm as Director.

**Address:** Director, ICAR-Indian Institute of Oil Palm Research, Andhra Pradesh

### 13.1.7 Dr Brajesh Singh, Director, ICAR -CPRI, Shimla, HP (CF-382)



Born in Lucknow, UP, India on 16 November 1970, Dr Brajesh Singh graduated from Lucknow Christian College, Lucknow, 1987-90, obtained M.Sc from Lucknow University, Lucknow, 1990-1992; and earned his Ph D from Dr. Ram Manohar Lohia Avadh University, Faizabad, 1997. Starting his career as Scientist at ICAR-Central Potato Research Institute, Shimla in 1995, he was elevated to the position of Senior Scientist, 2004-2010, Principal Scientist, 2010-14 and Head, Division of Crop Physiology, Biochemistry and Post-Harvest Technology, 2014-2022. He has been now selected as Director, ICAR-Central Potato Research Institute, Shimla. In his career spanning more than 27 years, Dr. Brajesh, has significantly contributed to post-harvest management of potatoes and was associated with the development and refinement of potato storage and processing technologies. He developed elevated temperature storage technology for table and processing potatoes. Besides, he developed storage technologies for seed and ware potatoes. He is associated with the development of technology for various potato products. He has developed and standardised protocols for nutritional profiling of potatoes His research has been recognised amongst the peer group resulting in publication of more than 100 research papers and 200 other publications. He is Fellow of National Academy of Agricultural Sciences (NAAS), 2021, Indian Academy of Horticultural Science, 2019, Indian Society for Plant Physiology (ISPP), 2010; Indian Potato Association (IPA), 2011 and Confederation of Horticulture Associations of India (CHAI), 2021. He is recipient of Associateship of National Academy of Agricultural Sciences (NAAS), 2010; JJ Chinoy Gold Medal (ISPP), 2020; Dr. JC Anand Memorial Gold Medal in PHT (HSI), 2018; Kaushalya Sikka Memorial Team Award, IPA, 2009; ICAR-CPRI Best Worker Award 2014; ICAR-CPRI- Certificate of Appreciation, 2004. He served as Editor-in-Chief, 2017-2020 of Indian Potato Association; IPA-Business Editor 2002-2010; Indian Society for Plant Physiology-Editor and Member Editorial Board (elected) w.e.f. 2013 to 2015.

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**Email:** Dr Brajesh Singh, Director, ICAR-Central Potato Research Institute, Shimla, HP, Email: Brajesh.Singh@icar.gov.in, birju16@gmail.com; Cell: 9816031628

### 13.1. 8 Dr G Byju, Director, ICAR-CTCRI, Thiruvananthapuram, Kerala (CF-347)



Specialised in the field of soil fertility management and climate change studies of tuber crops for the past more than 30 years, dr Byju has published 112 research papers in peer reviewed national and international journals of which 43 are in journals with NAAS rating above 6.0 . He has authored/edited 5 books, written 12 book chapters, presented papers in 91 conferences/seminars in India and abroad, written 12 Technical Bulletins, 18 Technical Folders, 30 Technical/Extension Folders and 156 Science Popular Articles. Visited 12 countries on various international assignments. He is a recipient of National Merit Scholarship for Class X; KAU Junior Fellowship for M.Sc. (Ag); Dhuru Morarji Memorial Award, FAI, New Delhi; three best paper awards and Fellow of Indian Society for Root Crops, the CHAI and SHRD. He has been involved in 19 institute research projects as PI (8) and Co-PI (11) and also got Rs. 14.31 crores as external research grant from 17 projects as PI (Rs. 4.62 crores) and Co-PI (Rs. 9.69 crores). He is member of 6 professional societies. He is reviewer of research papers in 36 journals of which 26 are high impact factor international journals including Scientific Reports-Nature, Agronomy Journal, Field Crops Research, Plant and Soil, Agriculture, Ecosystems and Environment, Journal of Plant Nutrition and Soil Science, Communications in Soil Science and Plant Analysis, and



Scientia Horticulturae. He is also a grant reviewer of Swiss National Foundation (SNF) for a research grant application and KSCSTE, Govt. of Kerala. Mentored two women scientists and guided 25 students of Ph.D. (7), M. Tech. (1) and M. Sc. (17) degree programmes. Developed site-specific nutrient management (SSNM) and customised fertilizers for tropical tuber crops by conducting on farm experiments in 300 farmers' fields across India during past 20 years and commercialised 5 foliar liquid micronutrient formulations for tropical tuber crop. Involved in the development of 7 online decision support tools. Developed a stand-alone decision support tool, CASSNUM 1.1 and a mobile app, Sree Poshini for site specific nutrient management (SSNM) of tropical tuber crops. He is Member, Academic Council and Board of Studies, Kerala Agricultural University; External Examiner of about 80 Ph.D. / M.Sc. (Ag) students and Guest Faculty, IITMK, Government of Kerala. Member Secretary, QRT, ICAR-CTCRI; Secretary, IRC, ICAR-CTCRI; Editor, ICAR-CTCRI News; Member, Editorial Board, Research Highlights (3 times); Secretary, Indian Society for Root Crops (ISRC) and Editor, Journal of Root Crops. Currently, he is providing the leadership in tuber crops as Director, at CTCRI, Thiruvananthapuram.

**Address:** Dr. G. BYJU, CTCRI, Thiruvananthapuram-695011, Kerala; Mobile: 8547441067; Email: byju.g@icar.gov.in

### 13.1.9 Dr Vijay Mahajan, Director of ICAR-GOGR, Rajgurunagar, Pune, Maharashtra (CF-360)



Born on March 22, 1964, Ainpur, Maharashtra, Dr. Vijay Mahajan graduated, B.Sc. (Ag), from College of Agriculture (JNKVV), Indore and earned his masters, M.Sc. (Hort.) and Ph.D. in Horticulture, (Vegetable Science) from Indian Agricultural Research Institute, New Delhi. His work of M Sc Ag thesis was selected presentation during convocation. Starting his career as Assistant professor at Indira Gandhi Krishi Vishvavidyalaya, he joined ICAR and later as the Senior Scientist at National Research Centre for Onion and Garlic in 2000 and subsequently he became Principal Scientist in 2008. He is Nodal Officer for All India Network Research project on Onion and Garlic, since it's inception in 2009. He was also acting Director, from Nov. 2016 to April, 2017, at the centre. With his career spanning 28 year doing research, teaching and extension, Dr Mahajan is credited to have developed and released 10 onion and 2 garlic varieties notified by CVRC, Which includes first Kharif white onion, Bhima Shubhra, designated as the "King of Onion" at "Krishi Vasant" Nagpur & developed 2 litchi varieties (IGKV, Raipur). Five onion varieties developed by him were licensed by 103 stake holders worth Rs 1 crore. He developed 4 high TSS white onion lines for processing and 2 drought and 2 water logging tolerant lines. Introduced onion cultivation in the tribal belt of Nandurbar. Being Nodal officer DUS and member Task Force, formulated DUS guidelines of Onion & Garlic. Dr. Mahajan worked/working as a member of various committees of the institute and institute's management committee, of ICAR viz. NRCOG, DOGR, NRCG, DFR, ATARI, NIASM, and CPRI. Dr Mahajan guided 12 students, evaluated M.Sc. & Ph.D. thesis of various universities, has published 79 research papers in national and international journals, presented more than 150 papers in national and international symposium, published more than 175 popular articles, 32 book chapters, 30 booklets/folders, conducted training programmes and delivered more than 200 lectures at various forums and 42 radio and TV talks. He has international Exposure on onion at USA, NIAB, Cambridge, UK. He Chaired Crop Improvement Session in International Symposium on Edible Alliums at Turkey. Dr Mahajan organized two national Symposium and one International Symposium on edible Alliums. Dr. Mahajan is recipient CSIR Associate ship, Young Scientist Award from MP Council of Science and Technology-1996, Bhopal, Certificate of Merit for outstanding scientist at IGKV, Raipur – 1996, Fellow of Indian Society of Vegetable Sciences 2018. He was felicitated

by Indian Society of Allium-2016 for significant contribution in onion and garlic research in India. He also received NHRDF award-2017 for outstanding contribution in Onion & garlic research and International Scientist Award (Life time achievement)-2021 from VDGGOOD Professional Association. The Indian Academy of Horticultural Sciences (IAHS) honoured him conferring the IAHS Fellowship in Vegetable Science -2020 and CHAI in 2021. Currently he is providing leadership to onion and garlic reteach as Director of ICAR-GOGR, Rajgurunagar, Pune, Maharashtra.

**Address:** Dr. Vijay Mahajan, ICAR-Directorate of Onion and Garlic Research, Rajgurunagar, Pune, Maharashtra; Email:vijay.mahajan@icar.gov.in phone 9421005607

### 13.1.10 Dr. Manish Das, Director and Project Coordinator, ICAR-DMAPR, Boriavi, Anand, Gujarat (CF-339)



**Dr. Manish Das**, Director and Project Coordinator, ICAR- Directorate of Medicinal and Aromatic Plants Research (ICAR-DMAPR) and All India Coordinated Research Project on Medicinal & Aromatic Plants & Betelvine (ICAR-AICRPMAPB), since 20<sup>th</sup> February 2023, was born in 1966, graduated in Agriculture in 1987 from RAU, Pusa and earned his Master and Ph. D. in Plant Physiology from IARI New Delhi in 1990 and 1994, respectively. He joined ARS in 1995 and was posted at ICAR-CPRI, Shimla and subsequently at CPRIC, Modipuram and CPRI, Patna, 2003. He joined ICAR-DMAPR, Anand, Gujarat as Senior Scientist in 2003 and joined at ICAR HQ in Horticultural Science Division in 2012 and continued till February, 2023. During his career spanning 28 years, he has significantly contributed to research and development and has developed many technologies related to potato storage, processing and value addition and also in the field of medicinal plants. He has expertise in crop physiology, seed physiology and post-harvest management of potato and medicinal plants. He has published 61 research papers, edited 3 books, 10 book chapters and more than 30 popular articles/ bulletins/manuals. He participated in many national and international seminars, symposiums, workshops and has delivered talks on radio and television. He is widely travelled in India and abroad. He visited Netherlands, Belgium, Israel, Bangladesh and Nepal. He has been a Member, RAC and IMC CIARI, CTCRI, NRCO, NRCSS and presently he is the member in the Board of Management, University of Horticultural Sciences, Bagalkot, Karnataka. Received Young Scientist award from ISPP and several other awards. He is Fellow of CHAI, SMP and SHRD and is also holding honorary positions in several scientific societies.

**Address:** Dr Manish Das, Director, ICAR-DMAPR Directorate of Medicinal & Aromatic Plants Research Boriavi- 387310, Anand, Gujarat, India, Mobile: 08587879524, Ph (O): 02692-271601 Email: manishdas50@gmail.com

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## Fellowships of CHAI - 2023

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### 14.1 FELLOW of CHAI-2023

#### 14.1.1 Dr. D.K. Roy, Director, Director, Seeds and Chief Scientist, Agronomy, DRPCA, Pusa, Bihar (CF-400)



**Dr. D.K. Roy** an academican and researcher in agronomy, graduated with distinction and earned master, RAU, Pusa doctorate (Ph D) from CCS HAU, Hisar. He is working as a Professor-cum- Chief Scientist at RPCAU, Pusa, since January 2009. He credited to have development weed control technologies for different crops and cropping systems in eastern India. Production technology of boro rice and deep-water rice in north Bihar is widely adopted. Dr. Roy was instrumental in the development of breakthrough wheat varieties like HD 2967, released as Rajendra Gehun-1, Rajendra Gehun-2 and Rajendra Gehu -3. He was also a leader in the evaluation of some terminal heat-tolerant lines and varieties of wheat, in collaboration with CAET, Pusa. He has successfully accomplished seven and thirteen projects as principal investigator and co-principal investigator, respectively. Besides, Dr. Roy also completed two externally funded projects and six consultancy projects. He has 65 research papers, 32 popular articles, 10 technical bulletins, 4 extension bulletins, 6 pamphlets, 3 booklets, 5 folders, 10 book chapters 3 books, one practical manual, and 9 annual reports of the AICRP on weed management. Dr. Roy taught many courses at the graduate and post-graduate level and guided 2 Ph.D. and 11 M.Sc. (Ag.) students as major advisor and 10 Ph.D. and 35 M.Sc. (Ag.) students as co-advisor. He has imparted 56 trainings to the progressive farmers of Bihar as a resource person, and 20 trainings under the horticulture supervisor training program. He also organised 40 training programmes for farmers, extension officers and KVK scientists on various topical issues related to farming. Dr. Roy delivered eight radio and ten television talks on different agronomical aspects. A biennial workshop and biennial conference of the AICRP on weed management and ISWS, Jabalpur, respectively, was BVC, Patna, by him in February 25–28, 2008. As Director, Seeds, Dr. Roy also held the position of Deputy Director (Pusa Farm), April 2018 to January, 2022. He has worked as head of a regional research station for more than 11 and 5 years at Biraul, Darbhanga, and Jhanjharpur, Madhubani, respectively. He has spent the last eight years as coordinator of AICW & BIP. Dr. Roy also served as officer-in-charge at Kalyanpur Farm for more than 3 years and as a member of the ATMA management committee and governing body of ATMA, Madhubani for more than 4 years. He was associated with the technical cell for the compilation and preparation of scientific and other reports for many years in the RPCAU, Pusa. Dr. Roy served as an external examiner and question paper setter for various universities. He was a member of the Resource Management Groups of RPCAU, Pusa, for two consecutive years. Dr. Roy is a peer reviewer of research papers for international and national journals.

**Address:** Dr. D. K. Roy, Director, Seed and Professor -cum-Chief Scientist, Agronomy, RPCAU, Pusa; Email- dhirendra.roy@rpcau.ac.in; Mobile-8210122415

#### 14.1.2 NATIONAL HORTICULTURAL RESEARCH AND DEVELOPMENT FOUNDATION (NHRDF), New Delhi (CF-401)



The **National Horticultural Research and Development Foundation (NHRDF)** established by National Agricultural Co-operative Marketing Federation of India Ltd. (NAFED) on **3 November, 1977**, under Societies Registration Act, 1860 at New Delhi, with aim to guide the farmers, exporters and others concerned for improving the productivity and quality of horticultural crops in order to make available sufficient quantity for domestic requirement and also to boost up export of onion and other such export oriented horticultural crops in the country. Initially, onion was a focus crop for research and development which was subsequently extended to garlic, okra, chilli, French bean etc. The NHRDF initially started as a small centre at New Delhi in 1978 has now 5 Regional Research Stations, Laboratories on different aspects and 18 Extension Centres spread all over the major onion and garlic growing pockets of the country. It has also established one Krishi Vigyan Kendra at Ujwa in New Delhi to cater to the needs of farmers of Delhi State. The NHRDF has a modern Pesticide Residue Analysis laboratory (PRAL) which is accredited by NAB. A laboratory for production of bio-pesticides has is functional at Nashik and is producing bio-pesticides, i.e. Trichoderma and SNPV. A Model Post Harvest Research Complex (PHRC) at Lasalgaon (MS) having 10 handling sheds of 100 mt capacity each, 20 modern storage godowns of 50 mt capacity each have also been established for training and providing infrastructural support to onion growers, traders, and exporters on post-harvest management of onion. The seed processing plants as well as seed stores with controlled temperature and humidity facilities have been established at Lasalgaon (Maharashtra), Rajkot (Gujarat), Indore (Madhya Pradesh), Karnal (Haryana) and Deoria (Uttar Pradesh). The NHRDF has standardized production, protection and post-harvest technologies for growing onion and garlic in different regions. It is also conducting research and development activities on all aspects of crop production, protection, seed technology, post-harvest technology and also transfer of technology of onion and garlic crops. The NHRDF since its inception is also engaged in quality seed production and distribution of important vegetable crops particularly onion, garlic, okra, potato, French bean, chili etc. as a service to the farmers. The NHRDF has now grown up as an Institute of national and international fame in the field of onion and garlic research. The Research and Development work carried out by the NHRDF particularly in crop production and post-harvest technology of onion and garlic has helped the country to come out of the crisis of these crops many times. The NHRDF carries out its Research and Development programmes with the guidance of its Scientific Advisory Committee under the chairmanship of Dy. Director General (Horticulture), Indian Council of Agricultural Research (ICAR) consisting of eminent scientists from different disciplines as members.

**Address:** Head Office, National Horticultural Research and Development Foundation, “Bagwani Bhawan”, Plot No. 47, Institutional Area, Pankha Road, Janakpuri, NEW DELHI-110058. Tele.No:- 011-28524150, 28522211 Telfax- 011-28525129; Email: delhi@nhrdf.com; Website:www.nhrdf.org

### 14.1.3 Dr. Bijender Singh, President, NHRDF, New Delhi (CF-402)

Refer to as given in para 3.1.1

**Address:** Dr. Bijender Singh, The Delhi State Cooperative Bank Ltd., 31, Netaji Subhash Marg, Darya Ganj, New Delhi-110 002 Tel: 23241218, 23270678; E-mail: president.dsrb@gmail.com; chairman@nafed-india.com

### 14.1.4 DR. RAVI Y. Scientist, ICAR-NRCSS, Ajmer, Rajasthan (CF-403)



**Dr. Ravi Y.** born on 7<sup>th</sup> July 1990 at Kengapura, Davanagere Dist. Karnataka in a farming family received his primary and secondary education from Govt. School at Kengapura and Kanivebilachi and passed out his pre-university course from Mothi Veerappa Govt. PU College, Davanagere, Karnataka. He graduated in Horticulture, 2013 and earned M.Sc., Horticulture in Plantation, Spices, Medicinal and Aromatic Crops in 2015 from Kittur Rani Chennamma College of Horticulture, Arabhavi, Karnataka, University of Horticultural Sciences, Bagalkot. He qualified ARS-2015 in Spices, Plantation, Medicinal and Aromatic Plants and joined ICAR in 2017 and was posted at ICAR- National Research Centre on Seed Spices, Ajmer, Rajasthan. In 2016, he received his Post Graduate Diploma in Intellectual Property Rights (IPR) in Agriculture from Annamalai University, Tamil Nadu with Grade A. He did his Ph.D., in Horticulture from Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu in 2022 and his area of research was on metabolomics, genetic variation for growth yield, quality and proximate compounds and assessment of anti-cancer activity of *Nigella sativa* L. He is currently working on Metabolomic approaches in seed spices improvement and is also associated with different projects on the enhancement of quality, yield of seed spices. He has published more than about 25 research papers in National and International journals, 30 popular articles, 5 book chapters, 15 bulletins/ training manuals. He has been actively involved in institute-building activities, dissemination of technologies to the stakeholders.

**Address:** Dr. Ravi Y, Scientist, Horticulture (SPMAP), ICAR- National Research Centre on Seed Spices, Ajmer, Rajasthan

### 14.1.5 Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan (CF-404)



Recognizing the importance of agricultural growth and development in assuring livelihood security of its population, the Government of Rajasthan gave high priority to develop agricultural education, research and extension in the state. Consequently, Rajasthan College of Agriculture was established at Udaipur in 1955. Subsequently, the collage was upgraded as Maharana Pratap University of Agriculture and Technology, Udaipur (MPUAT), the second Agricultural University of the state, (initially named as Agricultural University, Udaipur) came into existence on 1st November, 1999. This has been done in view of wide physiographic variation including crops, cropping pattern, climate, soil parameters, etc. in the largest state of the country. Moreover, it was difficult to manage stipulated task of teaching, research and extension activities as per the mandate set-forth through a single University in the state. Besides this, it provides new fillip to location specific programmes more suited to tribal belt specifically for the southern Rajasthan. The University started functioning in full swing with effect from December 1, 1999. The jurisdiction of the university include constituent colleges, Agricultural Research Stations (ARs), Agricultural Research Sub Stations (ARSSs), Livestock Research

Station (LRS), Dryland Farming Research Station (DFRS), and Krishi Vigyan Kendras (KVKs) spread over 7 districts of the south and south eastern part of the state of Rajasthan. These districts are Udaipur, Rajsamand, Dungarpur, Banswara, Chittorgarh, Bhilwara and Pratapgarh.

**Address:** Dr. Ajeet Kumar Karnatak, Vice-Chancellor, MPUAT, Udaipur, Tel.No. : 0294-2471101, 2470682 (O), Email: vc@mpuat.ac.in,vc\_mpuat@yahoo.co.in

#### 14.1.6 Nirmal Seeds Pvt. Ltd. (NSPL), Pachora, Jalgaon, Maharashtra (CF-405)



**Nirmal Seeds Pvt. Ltd. (NSPL)** was established in 1988 by a group of Agropreneurs & Technocrats at Pachora, Jalgaon, Maharashtra, India. The organisation was started with an idea of 'Need based Research' in the field of Seed Technology for the farming community. The mandate includes crop improvement with respect to hybrids and varieties development, suitable for different agro-climatic zones having high tolerance to biotic and abiotic stresses coupled with high yield and quality. The organisation is focusing towards maximising the yield for sustainability of agriculture with special emphasis on nutrition breeding for developing the elite genotypes having high levels of essential nutrients. The research on development of newer generation bio-organic inputs is also another priority area of R&D for Organic farming as well as Integrated Crop Production (ICP). Accredited with ISO-9001-2015 Certification, Nirmal Seeds is a name that carries an unmatched legacy & reputation in the agricultural sector. It has a presence in about 23 states of the country comprising major agricultural centres across India. With the help of Quality Research Products in Seeds and Bio Inputs Nirmal enjoys good market share. To support the Mission; Company has built 'state-of-the-art' high-tech infrastructural facilities of International standards. The company is recipient of accreditation and awards from recognised organisation.

**Address:** Dr. J.C. Rajput, Director, Research & Development, Nirmal Seeds Pvt. Ltd., Pachora-424201, Distt. Jalgaon, Maharashtra, Mumbai Office: B-1, 'SheelaKunj', Shankar Ghanekar Road, Prabhadevi, Mumbai-400025 Email: drjcrajput@nir-nalseedsindia.com; info@nirmalseedsindia.com

#### 14, 1.7 Dr. Bal Krishna, Sr Vice president, JISL, Jalgaon, Maharashtra (CF-406)

**Dr. Bal Krishna**, working as Sr. Vice President, Agri Biotech R&D, at Jain Irrigation Systems Ltd., Jalgaon, Maharashtra, India. He has been working in this organization since March 2004 and is involved in various Research and Development activities related to Horticulture and Biotechnology. Born in a farming family and learned farming in his child hood. His agriculture and horticulture understanding strengthened during his education and further career. He has obtained his basic degrees in B.Sc. Agri. & A.H, M. Sc. Horticulture and Ph.D Horticulture with specializations in Plant Breeding & Biotechnology from G.B.P.U. A&T, Pantnagar. He obtained advanced training in plant molecular biology from Umea Plant Science Centre, Umea, Sweden. His research interest includes protected cultivation, ultra high density planting in mango and high density planting in sweet orange. He is involved in study flowering biology of mango, banana, pomegranate and onion. In addition, he is also working on understanding drought and heat stress in banana. He has expertise in growing crops under controlled environment using aeroponics, hydroponics and soilless for experimental and commercial purpose. He has also obtained advanced training in protected cultivation in Israel and Holland. He have trained several farmer groups on hi-tech horticulture, high density plantation and protected cultivation. Dr. Bal Krishna has deep understanding of Indian agriculture with global view. He has traveled to more than 25 countries for various business and scientific meetings related to agriculture and horticulture. He has published more than 35 research papers in various peer reviewed journals. Five students completed their Ph.D.

under his supervision. He is member of professional societies like International Society for Horticulture Science, Indian Academy of Horticulture Sciences, Association of Official Analytical Chemists.

**Address:** Dr. Bal Krishna, Sr. Vice President, Agri Biotech R&D, Jain Irrigation Systems Ltd., Jalgaon, Maharashtra, India; Email: yadav.balkrishna@jains.com; Mob: 9422776671

#### 14.1.8 Mr. D K Mahajan, Progressive Banana grower, Raver, Jalgaon, Maharashtra (CF-407)



**Mr. D K Mahajan**, born on 1st June 1948 in the village of Waghoda, Raver did his schooling at marathi primary school and Nutan madhyamik school Chinawal and Junior College at M J College Jalgaon BSc and LLB at Garware College Pune. He is now the Chairman of Chakradhar Education Society Waghoda and Chairman Phal Bagaytdar Society, Savda. He is also the Chairman of Pani Vapar Sanstha Chinawal and Director of Chakradhar Gurukul Faizpur. Mr. Mahajan is an Innovative farmer, who adopted drip irrigation in 1990 and tissue culture in the year 1994. He harvested a recorded yield of banana, 130 tones per hectare. For his outstanding contribution he was honoured with Nala Vazhai Award in the year 2002 and Gaurai Jain Awards. Mr. Mahajan is a Role model, who is producing export quality banana in 50 areas every year. He is also a Fellow of AIPUB. Trichy. Lt Amit singh Memorial Foundation had conferred him an Udyan Ratna Award for adoption of modern technology and motivating other farmers for the adoption of new knowledge in banana. Mr Mahajan had recognition of FAO for the demonstration of tissue culture banana, way back in 2003, which became a motivating factor for large scale adoption of tissue culture banana, resulting in revolution in production and productivity. Mr Mahajan is in forefront for adoption and delusion of new knowledge in banana production. His contributions in banana is well appreciated.

**Address:** Mr. DK Mahajan, Waghoda, Taluka - Raver, Jalgaon, Maharashtra; Email: waghodafruitco1@gmail.com, Cell No 9422974722

#### 14.1.9 Shri Rajaram Ganu Mahajan, Tandalwadi, Raver, Jalgaon, Maharashtra (CF-408)

Refer to as given in para 6.1.1

**Address:** Shri. Rajaram Ganu Mahajan, Tandalwadi, Raver, Jalgaon, Maharashtra: Cell: 9823039057

#### 14.1.10 Dr Ram Awadh Ram, Ex-Principal Scientist, CISH, Rehmankhera, Lucknow (CF-409)

Refer to as given in para 12.1.1

**Address:** Dr. Ram Awadh Ram, Former Principal Scientist (Horticulture) & Head, Crop Production Division, ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow-226 101, India; Mob-09415459464, E-mail-raram\_cish@yahoo.co.in

#### 14.11 Dr. Dayaram, Former Head, Department of Mycology, DRPCAU, Pusa, Bihar (CF-410)

Refer to as given in para 12.1.2

**Address:** Dr. Dayaram, Ex-Prof. of Plant Pathology & Project Director, ACMR, RPCAU, Pusa, Samastipur (Bihar); Email: dayaram@rpcau.ac.in Phone 9430464088

#### 14.1.12 Shri Premanand Hari Mahajan, Tandalwadi, Taluka Raver, Jalgaon, Maharashtra (CF-411)



**Shri Premanand Mahajan**, born on 2 June 1975 at Tandalwadi had his schooling from Sardar Vallabhbhai Patel High School, Ainpur, Raver and graduated from Fergusson College Pune and Law from ILS Law College, Pune. After his education, Mr Premanand started farming in the year 1999 on 120 acres of land and started cultivating TC banana plantations on 2000 is credited for many innovations in farming in his area. His entire farm is under drip irrigated is growing bananas on the raised bed with mulching and has adopted fertigation. He is the first farmer who started the production of bananas with the international standard for domestic and export markets. He is also exporting bananas from own and relatives' farms to the tune of 450 containers per year. He is also growing cotton, maize, coriander and papaya. Mr Premanand Mahajan has significantly contributed to technology-led farming practices. For his contribution he was honoured by the Government of Maharashtra by Krushibhushan award. He is recipient of Udyan Ratna Award from ASM Foundation, New Delhi and Udyan Pandit Award and many more. He is the Director of Mahajan Banana Exports and a member of many local organisations.

**Address:** Shri Premanand Hari Mahajan, At & Post Tandalwadi, Taluka Raver, District Jalgaon (Maharashtra)

#### 14.1.13 Shri Vishal Rameshwar Agrawal, Ruchi Banana Exports, Taluka Raver, Jalgaon (Maharashtra) (CF-412)



**Shri Vishal Agrawal**, born on 14 January 1978 at Jalgaon, did his primary and secondary education from Sardar G.G. High School, Raver and completed his B.E. (Mech.) from Sanjivani College of Engineering Pune. He entered into banana farming in the year 2010. Mr Vishal is having about 105 acres of irrigated land. He is growing bananas with drip, mulching and tissue culture technology. Being a well learned person, he does lots of technology dissemination to other farmers also. He also grows cotton, turmeric, gram and papaya. Mr Vishal's banana cultivation model is very scientific with raised bed, double lateral, mulching, and fruit care management and export packing. He is one of the Directors of Ruchi Banana Exports and every year, he packs about 300-350 containers for other exporters. Mr Vishal is honoured with Udyan Ratna award by ASM Foundation; for his outstanding contribution to farming. He was also honoured with many other awards.

**Address:** Shri Vishal Rameshwar Agrawal, Ruchi Banana Exports, Taluka Raver, District Jalgaon (Maharashtra)

#### 14.1.14 Shri Prashant Vasant Mahajan, Tandalwadi, Taluka Raver, Jalgaon (CF-413)



**Shri Prashant**, born on 28 August 1980 at Savda, Taluka Raver did his schooling from the Primary School Tandalwadi and his junior college from Fergusson College Pune. He entered into the farming business in the year 2001. Now he is cultivating 250 acres of land. He follows scientific cultivation practices of bananas and has installed automated drip and fertigation. He is a role model for many farmers in the area. Commending his service to farming community, he has been honoured and awarded with the Udyan Ratna Award, by ASM Foundation, New Delhi. He is the Director of Mahajan Banana. Mr Prashant, Mahajan Banana Exports a 450 containers per year. He also grows cotton, gram, coriander, maize, papaya and turmeric. There are many banana awards to his credit like ICAR Trichy Best Banana growers Award by NRCB. He is a role model for other banana farmers to follow.

**Address:** Shri Prashant Vasant Mahajan, At & Post Tandalwadi, Taluka Raver, District Jalgaon



**14.1.15 Shri Vishal Kishor Mahajan, Vill- Naygaon, Taluka Muktainagar, Jalgaon (CF-414)**

**Shri Vishal Kishor Mahajan**, born on 18 August 1987 at Saudha, Raver did his schooling from New English School, Jamner and Junior College from M.F. Taral Mahavidyalaya, Anturli. He graduated from College of Agriculture Sonai Newasa Taluka. He also earned his post graduation from PGDKBM, Mumbai. He started farming in 2013 in about 40 acres of land with tissue culture banana on drip. He also raised cotton, turmeric, ginger and tur all on drip and his drip system automated. He has been doing scientific farming on account of his formal agri-education and has also been guiding neighbouring farmers on all modern aspects of community farming.

**Address:** Shri Vishal Kishor Mahajan, At & Post Naygaon, Taluka Muktainagar, Jalgaon

**14.1.16 Shri Dadasahev Namdev Patil, Bitargaon, Karmala, Solapur (CF-415)**

**Shri Dadasahev Namdev Patil**, born on 19 November 1981 at Butargaon Taluka Karmala, Solapur. did his schooling from Kanvamuni Vidyalaya Kandahar and secondary TC Junior College Baramati and graduated (Botany) from New College Kolhapur. He entered into farming in 2003 and has about 115 acres of land. He is doing banana farming form 2006 and Sugarcane, Papaya since last many decades. He follows hi-tech package of practises in banana and other crops. His entire farm is on drip irrigations and fertigation. He is well known Banana exporters. He built up his own pack house and cold storage. Mr Patil is packing about 600 to 700 containers of Banana yearly. He is a role model in this region. He has an enormous combination in the field of horticulture. He has been honoured with Krishi Bhushan Award by Government of Maharashtra and Idol of Maharashtra and also excellent in multiple Business Award. He also won the best Banana bunch award in exhibition.

**Address:** Shri Dadasahev Namdev Patil, At & Post Bitargaon, Taluka karmala, Dist. Solapur

**14.1.17 Mr Ramdas Trambak Patil, Nimbol, Raver, Jalgaon, Maharashtra**

**Shri Ramdas Trambak Patil**, born on 1st Nov 1955 in village Nimbol, Raver, Jalgaon district, did his schooling from ZP Marathi School at Nimbol & Sardar Vallabhbhai high school Ainpur. He obtained Bachelor of Science degree in Chemistry from Abasaheb Garware College, pune in 1980 and started farming, as a choice. He owns 45 acres of land and is growing banana, cotton and Jowar and used a micro-tube for the first time for banana in 1989, then online dripper and now inline for all crops since 2002. Starting with 2000 tissue culture bananas in 1995-1996 he has now entire banana under tissue culture He is an innovator, an ardent follower & very early adopter of the new technology. He was among a very first few, who planted bananas on raised beds in 2007-08. He installed the Drip Automation System in October 2018 for his 35 acres, as a part of precision farming. Within a year he experienced excellent yield with precision application of water & fertilizers. Due to raised bed, double lateral irrigation and fertigation's technology, he is harvesting an average 100 Metric tons of banana per hectare, which is an excellent example for others. In 2017 aiming for fresh banana export, he started fruit care management for 8000 plants, which was exported. He also grows white onion for 6 to 7 years under Jain's contract farming & supplies all the harvested produce to Jain's dehydration unit. He has harvested

17 to 20 MT / acre of white onions which is reported to be the highest yield. He is a member of APMC, Raver. He has been chairman of the Banana Board Price Committee for the last 7 years.

**Address:** Shri Ramdas Trambak Patil, Vill- Nimbol, Taluka- Raver, Jalgaon; Email :ramdastpatil55@gmail.com; Cell: 8459956195

#### 14.1.18 Ms. Priyam Singh, N.H. Consultancy, New Delhi



**Priyam Singh**, born in Darbhanga district had her schooling in Sitamadhi, Bihar, earned her Masters in Sociology from JNU Delhi. She has developed her expertise in project designing and its implementation. She also possesses the skills in report writing and analysing problems to provide effective solutions for delivery systems. Priyam has worked extensively in the development sector, implementing programs related to Sustainable Development Goals (SDGs) for various organisations, including the World Bank, JICA (Japan International), UNDP, EU, Government of India, and State Governments. Priyam has travelled widely in rural India and has developed ability to adjust in all the working environments. She has the ability to work independently and in teams as well and has expertise in both quantitative and qualitative research on survey designs. Currently, Priyam is working as DGM, Projects in N H Consulting Pvt Ltd New Delhi. Her diverse experience in managing and coordinating various projects have equipped her with a broader skills and knowledge that enable her to provide effective solutions for complex problems.

**Address:** Priyam Singh, Email: priyam.singh@consultingnhc.com; vishwapriyam@gmail.com  
Mobile - +91-9650158952

## RECIPIENTS OF AWARDS AND RECOGNITION (2012-2021)

### 1 Honoured Fellow of CHAI Awardee

The distinguished personalities, who have provided leadership of par excellence for the development of Indian Agriculture are recognised by conferring **Honoured Fellow of CHAI**. The awardees should have contribution to the furtherance of horticulture/ agriculture and must have peer recognition nationally and internationally, in improving the infrastructure, policy and programs of research and development impacting Indian Agriculture.

Awardee-2023:	Dr Himansu Pathak, Secretary (DAE) & DG, ICAR, New Delhi
Awardees-2022:	Prof.(Dr) A.K. Srivastava, Member, Agricultural Scientist Recruitment Board (ASRB), KAB-I, New Delhi
Awardees-2021:	Dr Shailendra Joshi, IAS, Former Chief Secretary, Government of: Telangana
Awardees-2020:	Dr. Rita Sharma, IAS, Former Secretary to Govt. of India, MORD
Awardees-2019:	Shri Jagdish Prasad Meena, Former Secy. MoMFPI, New Delhi Dr. Ashok Dalwai, CEO, NRAA, New Delhi Prof.(Dr.) A. K Misra, Chairman, ASRB, New Delhi
Awardees-2018:	Prof. Ramesh Chand, member, NITI Aayog
Awardees-201:	Dr. R.B. Singh, Chancellor, CAU, Imphal & Former Chairman, ASRB Dr. Trilochan Mahapatra, Secretary (DAE) & DG, ICAR
Awardees-2016:	Dr. Rajendra S. Paroda, Chairman, TAAS Dr. S. K. Pattanayak, Former Secretary, Agriculture

### 2 . Life Time Achievement Awardee

The **Life Time Achievement Award** recognizes an outstanding contributions, scientific excellence and the distinguished services of the awardee for the cause of horticulture/agriculture research, education and technology dissemination, which has impacted horticulture/agriculture development.

Awardee-20223	Dr. Major Singh, Member, ASRB, KAB 1, Pusa Institute New Delhi
Awardee-2022:	Dr. T.Janakiram, VC, Dr.YSRHU, Venkataramannagudem, A.P.
Awardee-2021:	Dr. P. Chowdappa, VC, BES&TIU, Anantapur, Andhra Pradesh
Awardee-2020:	Dr. S. B. Dandin, Ex-Vice Chancellor, UHS, Bagalkot
Awardee-2019:	Dr. James George, Former PC, AICRP, CTCRI, Trivandrum, Kerala
Awardee-2018:	Dr. P. Rethinam, Plantation Crops Management Specialist, Coimbatore
Awardee-2017:	Dr. K.V. Peter, Former, VC, KAU
Awardee-2016:	Dr. S. M. Paul Khurana, Former Vice-Chancellor, India
Awardee-2015:	Dr. Augustin Molina, Bioversity International, Philippines
Awardee-2014:	Dr. H. P. Singh, Former DDG (Hort), ICAR
Awardee-2013:	Dr. Prem Nath, Chairman, PNASF, India
Awardee-2012:	Dr. Kirti Singh, Chairman, World Noni Research Foundation, India
Awardee-2011:	Dr. K.L. Chadha, President, Horticulture Society of India

### 3. Honorary Fellow of CHAI Awardee

Confederation of Horticulture Associations of India (CHAI) recognizes the leader in horticulture for their commitment and pursuance to achieve the goal of technology led development. This award is

conferred for excellence in scientific research to the distinguished members for their outstanding achievements and significant contributions in agriculture/horticulture research, education and development.

Awardee of 2023	Dr. Bijender Singh, President, NHRDF, New Delhi Prof. Ajeet Kumar Karnatak, Vice Chancellor, MPUAT, Udaipur, Rajasthan Dr. Major Singh, Member, ASRB, DARE, MoAFW, New Delhi
Awardees of 2022:	Dr. B. Neeraja Prabhakar, Vice Chancellor, SKLTS Horticultural University, Mulugu, Siddipet Dist. Dr. R. K. Singh, Former Director/Vice Chancellor, ICAR-IVRI, Bareilly Dr. N. K. Gontia, VC, JAU, Junagadh, Gujarat Dr. K. P. Singh, VC, M.J.P. Rohilkhand University, Bareilly, U.P.
Awardees of 2021:	Dr. Nazeer Ahmed, VC, SKUAS&TKS, Srinagar, J&K Dr. D. R. Singh, VC, CSAUAT, Kanpur, UP Dr. S. D. Sawant, BSKKV, Dapoli, Maharashtra Dr. Arvind Kumar, DDG (Research), ICRISAT, Hyderabad (CF-365) Dr. B. N. S. Murthy, Director, ICAR-IIHR, Bangalore (CF 370)
Awardees of 2020:	Dr. Chindi Vasudevappa, VC, NIFTEM, Haryana Dr. Ajoy Kumar Singh, VC, BAU, Sabour, Bhagalpur, Bihar Dr. Tej Partap, VC, GBPUA&T, Pantnagar, Uttarakhand Dr. A. K. Karnatak, VC, VCSGUUH&F, Bharsar, Pauri Garhwal Prof. Arvind Kumar, VC, RLBCAU, Gwalior Road, Jhansi
Awardees of 2019:	Dr. Atanu Purkayastha, Former Secretary, ICI, Gol, New Delhi Dr. Sanjeev Kumar Chadha, MD, NAFED, New Delhi Dr. S. K. Malhotra, AC, MoA&FW, Govt. of India, New Delhi Prof. (Dr.) Sisir Kumar Mitra, Kalyani, Nadia, West Bengal Dr. S. K. Patil, VC, IGKV, Raipur, Chhattisgarh
Awardees of 2018:	Dr. Chiranjiv Chaudhary, VC, DrYSRHU, Venkataramannagudem, AP Dr. Arjun Singh Saini, Dy. Horticulture Department, Panchkula, Haryana Prof. Dr. K. P. Singh, Vice Chancellor, CCSHAU, Hisar, Haryana; Dr. V. Praveen Rao, Vice Chancellor, PJTSAU, Telangana Dr. K. P. Viswanatha, Vice Chancellor, MPKV, Rahuri, Maharashtra Shri Bijay Kumar, I.A.S., Addl. Chief Secy, AHDD&FD, Mumbai
Awardees of 2017:	Dr. Jai Singh Parihar, Former Director, ISRO Dr. Narsingh Narain Singh, Former VC, BAU, Ranchi Dr. K. V. Peter, Former VC, KAU, Trichur, Kerala Dr. Narendra Singh Rathore, DDG, Education, ICAR Dr. V. V. Sadamate, Former Advisor, Planning Commission
Awardees of 2016:	Dr. A. K. Srivastava, Director and VV, NDRI, Karnal Dr. A. R. Pathak, VC, JAU, Junagadh Dr. S. M. Paul Khurana, Former Vice-Chancellor Dr. Balraj Singh, VC, JAU, Jodhpur
Awardees-2015:	Mr. Surjit Chaudhary, IAS, Former Secretary, C&PC Dr. A. K. Singh, Principal Scientist (Horticulture), CISH
Awardees-2014:	Dr. H. S. Gupta, Director General, BISA Prof. (Dr.) N. C. Gautam, Vice Chancellor Dr. N. K. Krishna Kumar, DDG (Hort), ICAR

Awardees-2013:	Dr. Dilip Kumar, CIFA (ICAR); Founder Member Dr. Shyam Singh, Former Director, Agriculture in A&N
Awardees-2012:	Dr. H. P. Singh, Chairman –CHAI Dr. D. P. Ray, Former Vice-Chancellor Dr. P. Rethinam, Plantation Crops Management Specialist Dr. S. P. Dandin, Ex Vice-Chancellor Dr. A. K. Bakhshi, Former Vice-Chancellor Dr. D. K. Arora, VC, SKUAT, Jammu

#### 4 Padma Bhusan DR. R.S. Paroda Award for Excellence in Horticulture

This award recognizes distinguished scientific contribution of an individual in the field of agriculture specially horticulture, including biotechnology and environmental sciences.

Awardee of 2023	Dr. Tusar Kanti Behera, Director, ICAR-IIVR, Jakhini, Shahanshapur, Varanasi
Awardee-2022:	Dr. Dilip Ghosh, Director, CCRI, Nagpur, Maharashtra
Awardee-2021:	Dr. Sanjay Sahay, Chairman, BAU, Sabour, Bhagalpur, Bihar
Awardee-2020:	Dr. Harshawardhan Choudhary, PS, ICAR-IARI, New Delhi
Awardee-2019:	Dr. Sunil Pareek, NIFTEM, Kundli, Sonapat, Haryana
Awardee-2018:	Dr. Gopal Lal, Director, NRCSS, Ajmer
Awardee-2017:	Dr. Anil B Patil, Vice President, JISL, Jalgaon
Awardee -2016:	Dr. D. R. Singh, Director, NRCO, Sikkim
Awardee-2015:	Dr. S.K. Malhotra, Agri. Commissioner
Awardee-2014:	Dr. Nazir Ahmed, Vice Chancellor, SKUAT Kashmir
Awardee-2013:	Dr. Vishal Nath, Director, NRCon Litchi, Muzaffarpur
Awardee-2012:	Dr. Gorakh Singh, Ex-Horticulture Commissioner,
Awardee-2011:	Dr. S. Rajan, Director, Central Institute for Subtropical Horticulture

#### 5 Padma Shri DR. B.H. Jain Award for Excellence in Dissemination of Knowledge

This award recognizes individual who have contributed for human resource development or dissemination of knowledge (teaching) and technology (extension/development), which has impacted overall development of horticulture/agriculture.

Awardee-2023	Dr. A.V. Dhake, VP, JISL, Jalgaon, Maharashtra
Awardee- 2022:	Dr. Chandeshwar Tiwari, Director Extension, VCSGUUHF Bharsar, Pauri , Uttarakhand Dr. Babita Singh, Project Manager, GEF, Rainforest Alliance, New Delhi
Awardee- 2021:	Dr P Soman, Chief Agronomist (Global), JISL, Chennai, Tamil Nadu
Awardee- 2020:	Dr.V V Sadamate, Agril. Extn. Specialist & Former Adviser Agriculture, Planning Commission, GOI
Awardee- 2019:	Shri. Kalyansing B. Patil, JISL, Jalgaon
Awardee- 2018:	Dr. M.D. Ojha, Associate Prof, NCH, Noorsarai, Nalanda
Awardee- 2017:	Dr. Ashok Kumar Mishra, Former Dean, JAU and Sr. Manager, JISL
Awardee- 2016:	Dr Anoop K. Srivatava, Principal Scientist, Nagpur
Awardee-2015:	Dr. M. R. Hegde, Former Principal Scientist and Chairman
Awardee-2014:	Dr. N. L. Patel, Dean, ASPEE College of Agriculture
Awardee-2013:	Dr. T. Jankiram, ADG (Horticulture)

## 6. Ramnandan Babu Award For Innovations In Farming

This award recognizes the innovations in farming for enhanced productivity of land and water, generating higher income per unit of land.

Awardee-2023	Shri. Rajaram Ganu Mahajan, Tandalwadi, Raver, Jalgaon, Maharashtra
Awardee 2022:	Dr. Kariyanna, Hitkari Horticulture Foundation, Plot No 31/1A 8 <sup>th</sup> Main, Triumallapa Nagar,Attur Layout, Yelahanka New Town, Bangalore
Awardee 2021:	K. Ravi Kiran, Guntur, Andhra Pradesh
Awardee 2020:	Shri Dharmhari Prasad Narain Singh, Progressive Farmer, Varanasi, U.P.
Awardee 2019:	Shri Sudhir Chadha,Indo Dutch Horti. Technology, Bhimtal, UK
Awardee 2018:	Shri Dinesh Kumar, Muzaffarpur, Bihar
Awardee 2017:	Mr Bhagwat Patil Raver, Jalgaon
Awardee-2016:	Mr. D. P. N. Singh, Varanasi
Awardee-2015:	Mr. Sudhansu Kumar, Nayanagar, Samastipur
Awardee-2014:	Dr. S. S. Mehta, V.P. AIPUB, Salem

## 7 CHAI- Chautilya Lokniti Award-2023

This award is instituted in the name of an ancient Indian polymath, Chanakya , who was active as a teacher, author, strategist, philosopher, economist, jurist, and royal advisor. Chanakya has been traditionally identified as Kautilya or Vishnugupta. The award, thus recognises the excellence in philosophy, public policy, teaching and strategies development.

CHAI- Chautilya Lokniti Award-2023	Dr. Bhongle Sudhir Jagannath, Shiveteerath Nagar, Pune, Maharashtra
CHAI- Chautilya Lokniti Award-2022	Dr. Rajvir Sharma, Sr. Consultant School of Social Sciences IGNOU, New Delhi

## 8. JISL Fellowship for Visit Abroad

This fellowship is given to promote young scientists and knowledge provider to participate in international conference and to take training abroad for Knowledge enhancement..

Awardee-2023:	Dr. H.U.N Devi, Associate Professor, TNAU, Coimbatore
Awardee-2022:	Dr. L. Pugalendhi, Dean, HC&RI, TNAU, Coimbatore
Awardee-2021:	Dr. Dinesh Kumar, PS(H), CCRI, Nagpur, Maharashtra
	Dr. Awani Kumar Singh, PS (Veg./Hort. Sci.), CPCT, IARI, New Delhi
Awardee-2020:	Dr. K. Murlidharan,CPCRI Kasararagod, Kerala
	Dr. P.K. Gupta, Director, NHRDF, New Delhi
Awardee-2019:	Dr. Sanjay Kumar Singh, Sr. Scientist, NRCL, Muzaffarpur
	Dr. Kuldeep Srivastava, Sr. Scientist, NRCL, Muzaffarpur
Awardee-2018:	Dr. Anil Kumar Singh, DRPCAU, Pusa
Awardee-2017:	Dr. R.C. Srivastava, VC, DRAU, Pusa
Awardee-2016:	Dr. Manoj Kumar, Head, ICAR-CPRS, Patna
Awardee-2015:	Dr. S. S. Sindhu, Head, IARI, Indian Agricultural, New Delhi
Awardee-2014:	Dr. Sunil. Pareek, Associate Professor, NIFTEN

### 9. DR. RAY Best Dissertation Award

This award is given for best Ph.D. thesis based on relevance of topic of research, quality of research output and outcome and its application in the field of science.

Awardee2023	Dr. S. Patil, KBC North Maharashtra University, Jalgaon, Maharashtra Dr. Ravi Y., TNAU, Coimbatore
Awardee 2022:	Dr. Manish Kumar, IARI, PG Outreach Programme at ICAR-IIHR, Bengaluru
Awardee 2021:	Dr. Suchismita Jena, CoHF, NAU, Navsari,
Awardee-2020:	Dr. Nighat Mushtaq, SKUAST, Srinagar
Awardee-2019:	Dr. Jogdand Sunil Mohan, GBPUAT, Pantnagar
Awardee-2018:	Dr. M.Gopi, NRC for Banana, Trichy
Awardee-2015:	Mr. Pawan Kumar, IARI, New Delhi
Awardee-2014:	Dr. S. Muthu Kumar, TNAU, Coimbatore

### 10 Dr. Kirti Singh Best Paper Award

This award is given for publishing high quality research article in International journal of Innovative Horticulture in the preceding year based on recommendation of committee based on evaluation of original article and approval by Board of Directors. The recipient of award is honoured with certificate and Medal also receives two issues of the Journal in which papers are published.

Awardee2023	Dr. D.C. Manjunathagowda, DO&GR, Rajgurunagar, Pune
Awardee-2022.	Dr. Narendra Chaudhary, ICAR-NRCSS Tabiji, Ajmer
Awardee-2021:	Dr. Sawargaonkar S.L. and others, CARS, Raigarh
Awardee-2020:	Dr. Dinesh Kumar & Others (2019), CCRI, Nagpur
Awardee-2019:	Dr. Durai, NRC for Banana, Trichy, Tamil Nadu

### 11. CHAI - Life Time RecognitionAward

The award recognises a life time contributions of an individual to research, education, development and extension of specific commodity, which succeeded in achieving unparalleled growth. The awardee shall become the Fellow of CHAI and can avail all the benefits admissible to the Fellow of CHAI.

Awardee 2023:	Dr. Balraj Singh, VC, SKNAU, Jobner, Jaipur, Rajasthan
Awardee-2022:	Dr. A.K. Srivastava, Principal Scientist (Soil Science), CCRI , Nagpur, Maharashtra
Awardee-2021:	Dr. Chiranjivi Chaudhary, IFS, Commissioner of Horticulture, AP.
Awardee-2020:	Dr. S. K. Chakrabarti, Former Director, ICAR-CPRI, Shimla DR. J. KUMAR, Dean, CoA, GBPUA&T, Pantnagar
Awardee-2019:	Dr. N. Kumar, Vice Chancellor, TNAU, Coimbatore
Awardee-2018:	DR. Bir Pal Singh, Ex-Director, CPRI, Shimla
Awardee-2017:	Dr. N. N. Singh, Former VC, BAU, Ranchi (CF- 339) Dr. H. S. Gupta, Former Director, IARI

## 12 CHAI- Appreciation Award

This award recognizes the contributions of an individual, contribution in his or her career, for the advancement of technology led development, with a set goal and objectives, which succeeds in bringing difference in the quality of life of the people. The award carries a citation, a plaque of honour and certificate.

Awardee-2023	Dr. Dayaram, Former Head DRPCAUI, Pusa Dr. Ram Awadh Ram, Ex-PS, CISH, Rehmankhhera Lucknow
Awardee-2022:	Dr. Vijay Mahajan, ICAR-Directorate of Onion and Garlic Research, Rajgurunagar, Pune, Maharashtra
Awardee-2021:	Dr. Major Singh, Director, DO&GR, Rajgurunagar, Pune Dr. R. Thangavelu, PS, NRC for Banana, Tirichirapalli, Tamilnadu
Awardee-2020:	Dr. Anita Karun, Director, CPCRI Kasaragod Dr. Jai Singh Parihar, Ex-Directpr, ISRO, Ahmedabad
Awardee-2019:	Prof. Salil Kumar Tiwari, GBPUA&T, Pantnagar Shri Santosh Kr. Prasad, CA, New Delhi Mr. Babasaheb T Gore, Ahmednagar, Maharashtra
Awardee-2018:	Dr. Vishal Nath, Director, NRCL, Mushahari, Muzaffarpur, Bihar Mr. Sudhanshu Kumar (Progressive Farmer), Samstipur Dr. Usha Singh, DRPCAUI, PUSA Dr. Ranjan Srivastava, Head, G.B.P.U.A&T, Pantnagar Mr. Gyan Chand Agarwal, M/s Rajdeep Agri Product Pvt. Ltd., Delhi
Awardee-2017:	DR. Anil Kumar, Prof. & Head, G.B.P.U.A&T, Pantnagar Dr. T. P. Singh, Former Dean PG, RAU, Pusa, Samstipur Dr. P. B. Jha, Former Chief Scientist, RAU, Pusa, Samastipur Dr. A. V. Barad, Dean, College of Agriculture, JAU, Junagadh

## 13 Various Categories of Fellows

### 13.1 Institutional Fellow

NHRDF, New Delhi  
SKLTSHU, Siddipet, Telangana (CF-387) 2022  
MJPRU, Pilibhit by Pass Road, Bareilly, U.P. (CF-394) 2022  
BSkKV, Dapoli, Ratnagiri, Maharashtra (CF-362) 2021  
CSAUAT, Kanpur, UP (CF-356) 2021  
SKUAST, Srinagar, J&K, CF-355, 2021  
RLBCAU, Jhansi, CF-353, 2020  
VCSGUUH&F, Pauri Garhwal, CF-351, 2020  
GBPUA&T, Pantnagar, CF-349, 2020  
SVIET, Punjab, CF-344, 2020  
BAU, Sabour, Bhagalpur, CF-342, 2020  
NIFTEM, Sonapat, Haryana, CF-337, 2020



IGKV, Raipur, CF-333, 2019  
 NAFED, New Delhi, CF-328, 2019  
 TNAU, Coimbatore, CF-325, 2019  
 Confederation of NGOs of Rural India (CNRI), New Delhi, CF-296, 2018  
 Mahatma Phule KrishiVidyapeeth (MPKV), Rahuri, Maharashtra, CF-292, 2018  
 PJTSAU, Hyderabad, Telangana, CF-289, 2018  
 CCSHAU, Hisar, Haryana, CF 284, 2018  
 Maharana Pratap Horticultural University, Karnal, CF-281, 2018  
 Department of Horticulture, Panchkula, Haryana, CF 275, 2018  
 Dr YSRHU, Venkataramannagudem, AP, CF 266, 2018  
 JAU, Junagadh, CF-250, 2017  
 The Trust for Advancement of Agricultural Sciences (TAAS), New Delhi, CF-245, 2017  
 PHD Chamber of Commerce, CF-195, 2014  
 University of Horticulture Science, Bagalkot, CF- 190, 2014  
 Navsari Agriculture University, Navsari, CF-151, 2013  
 Lt. Amit Singh Foundation, CF-0121, 2013

### 13.2 Corporate Fellow

Nirmal Seeds Pvt. Ltd. Pachora, Jalgaon (CF)  
 Dhanuka Agritech Ltd, New Delhi ,CF-251, 2017  
 Skymet Weather Services Ltd., Noida, U.P. CF-240, 2017  
 AJ Group, Jodhpur, Rajasthan, CF-235, 2016  
 Agriculture Today, New Delhi CF-222, 2016  
 Merino Group, Hapur, U.P. CF-0154, 2013  
 Florence Flora, Bangalore, Karnataka CF-0119, 2013  
 Media Today, New Delhi CF-0132, 2013  
 Aurohill Group of Company, Dubai CF-0149, 2013  
 Jain Irrigation Systems Limited, Jalgaon, Maharashtra CF- 0036, 2012  
 Noni Biotech, Chennai: CF -0096, 2012

### 13.3 Association Fellow

Horticultural Society of Gujrat, CF-171, 2014  
 Aonla Growers Association of India, CF-0097, 2013  
 Society for Promotion of Horticulture, CF-0056, 2012  
 Society for Promotion of Oil Palm Research and Development, CF-0053, 2012  
 Indian Society for Spices, CF-0009, 2012  
 Indian Society for Plantation Crops, CF-0008, 2012  
 Indian Potato Association, CF-0007, 2012  
 Indian Society of Ornamental Horticulture, CF – 0006, 2012  
 Association for Improvement in Production and Utilization of Banana (AIPUB, Trichy), CF-0005, 2012

### 13.4 Fellow of CHAI-As per List

### 13.5. CHAI Achiever's Award

This award recognises the personnels who have reached to the level of Vice chancellor or equivalent in their career and have outstandingly contributed to research, education, extension and development of horticulture/horticulture and have provided leadership of par excellence. The Awardee has to be a Fellow of CHAI. This award will be given annually, depending on recommendation of Search Committee and approval by the Board of Directors of the CHAI. The Award carries a Plaque of Honour, certificate and citation.

### CHAI Achievers' Award-2023

- 13.1.1 **Prof. Arvind Kumar**, Former VC, RLBCAU, Jhasi, UP
- 13.1.2 **Dr. A. K. Singh**, VC, RLBCAU, Jhasi, Uttar Pradesh
- 13.1.3 **Dr. D. R. Singh**, VC, BAU, Sabour, Bhagalpur, Bihar
- 13.1.4 **Dr. Major Singh**, Member, ASRB, DARE, MoAFW, New Delhi
- 13.1.4 **Dr K V Prasad**, Director, DFR, Mundwa, Pune, Maharashtra
- 13.1.5 **Dr. Kancherla Suresh**, Director, ICAR-IIOPR, Andhra Pradesh
- 13.1.6 **Dr Brajesh Singh**, Director, ICAR -CPRI, Shimla, HP
- 13.1.7 **Dr G Byju**, Director, ICAR-CTCRI, Thiruvananthapuram, Kerala
- 13.1.8 **Dr Vijay Mahajan**, Director of ICAR-GOGR, Rajgurunagar, Pune, Maharashtra
- 13.1.9 **Dr. Manish Das**, ICAR-DMAPR, Boriavi, Anand, Gujarat

## GUIDELINES OF AWARDS AND FELLOWSHIPS

### CHAI-AWARDS AND FELLOWSHIPS

The Confederation of Horticulture Associations of India (CHAI), has instituted various awards and fellowships, **CHAI-Honoured Fellow** is conferred to distinguished personalities for the leadership. CHAI- Lifetime Achievement Award and Honorary Fellowships are conferred to recognise the scientists for their contributions and excellence in agricultural sciences, specially horticulture, including biotechnology and environmental sciences, Padma Bhusan **CHAI-Dr. R. S. Paroda Awards** for Excellence in research, **CHAI- Padamashri Dr B.H Jain Awards** for excellence in dissemination of technology, **CHAI-Ramnandan Babu Awards** for innovative farmers. To support the scientists for the participation in conference abroad, JISL Fellowship is provided. **CHAI- Life Time Recognition Award**, and **CHAI Appreciation Awards have also been Instituted**. These awards/fellowships are conferred on scientists, entrepreneurs/ innovative farmers based on the merit, as adjudged by high powered committee, once in a year, on the suitable occasion of national or international conference organised or supported by the CHAI or foundation day. The guidelines framed for nomination, selection and conferment of awards and fellowship, as finalised by Board/Directors/Chairman, which are liable to be amended, from time to time, for CHAI Awards and Fellowships are:

#### 1) CHAI-HONOURED FELLOW Award

The distinguished personalities, who have provided leadership of par excellence for the development of Indian Agriculture are recognised by conferring **CHAI-Honoured Fellow**. The awardees should have contributed to the furtherance of horticulture/ agriculture and must have peer recognition, nationally and internationally, in improving the infrastructure, policy and programs of research and development, impacting Indian Agriculture. Only nomination in prescribed format will be considered.

- **Eligibility for nomination:** He or she nominated for Honoured Fellow of CHAI should have attained 50 years of age, latest by the last date for nomination, and should be known for his/her contributions nationally and internationally. The period for assessment shall be based on the contributions made in their career up to the year of nomination. The award shall consist of a certificate, citation and plaque of honour.
- **Who can nominate?** The nomination can be made by distinguished scientist working in horticulture/agriculture research and is the Fellow of the CHAI. Selection will be made based on the nominations along with the relevant informations with evidence of outstanding contributions of each nominee. Self nominations are not acceptable. The Search Committee constituted by the Founder and Chairman, CHAI, shall submit recommendations for the approval of the Board of Directors/Founder Chairman. This shall be a consensus decision, which will be final.

#### 2) CHAI-LIFE TIME ACHIEVEMENT AWARD

CHAI-Life Time Achievement Award, once in a year, shall be given to selected scientists or research managers for their distinguished services for the cause of horticulture/agriculture research, education and technology dissemination, which has impacted the development in the country. The awardees should have contribution to the furtherance of horticulture/ agriculture and must have peer recognition, nationally and internationally, as supported by the publications, products, processes, cultivars and patents etc. The nomination with bio-data in performa, as given in the Annexure will be needed by the Search Committee.

- **Eligibility for nomination:** He or she nominated for Life Time Achievement Award should have attained 60 years of age, latest by the last date for nomination, and should be known for his/her contributions nationally or internationally. The period for assessment shall be based on the

contributions made in life, up to the year of nomination. The award shall consist of a certificate, citation and plaque of honor, and he or she shall become the Honorary Fellow of the confederation.

- **Who can nominate?** The nomination can be made by any scientist working in horticulture research with a distinguished career, and is member of the CHAI. Selection will be made based on the nominations along with the relevant information with evidence of outstanding contributions of each nominee. The nomination can also be sent by Deputy Director Generals, ICAR, Vice Chancellors, ADGs, Directors of Research institutes/ SAU/CAU and Presidents and Secretaries of member societies of the CHAI, in the prescribed format. Self nominations are not acceptable. The Search Committee constituted by the Founder and Chairman, CHAI shall submit recommendations for the approval of Founder Chairman. This shall be a consensus decision of the committee, which shall be final.

### 3. CHAI- HONORARY FELLOW

One of the objectives of Confederation of Horticulture Associations of India (CHAI) is to recognize the excellence in scientific research. Thus, from among the member/Fellows are identified with academic excellence in different areas of horticulture/agriculture, adjudged on the basis of outstanding achievements and sustained significant contributions in horticulture/agriculture for honorary fellowship. The nomination can be received from any scientist working in research and development of horticulture, preferably member of CHAI. A maximum of five Honorary Fellows will be inducted in a year. The recommendations of search committee shall be put for approval to the Founder Chairman/Board of Director. The decision of the Founder and Chairman shall be final. The recipient of life time achievement award shall become honorary fellow of CHAI

### 4. CHAI-PADAM BHUSAN DR. R.S. PARODA AWARD

This award has been instituted in the name of Padma Bhushan, Dr. R.S. Paroda, by the confederation, in recognition to his contributions in national and international development of agriculture, and his passion for the agricultural research, education, transfer of technology and building the infrastructure for its support. Dr. Paroda is not only adorned with various awards but his commitment is a testimony to create confidence among scientists, who are converting research into knowledge for horticulture/agriculture and providing policy guidelines. Having occupied national and international positions, the contribution of Dr. R.S. Paroda as Director General, ICAR is memorable to all the scientists in the country. He still continues serving farmers' community as the Chairman, TAAS and also Farmers' Commission, Government of Haryana. Therefore, the award is instituted to recognize the scientific excellence in agriculture, specially horticulture, biotechnology and environmental sciences, Dr. R. S. Paroda award shall be given once in a year, which will consist of a citation, a plaque of honor and a commitment to support foreign travel assistance to actual expenditure or maximum of Rs fifty thousand, whichever is least, for oral presentation of the paper selected in international conference. The validity of the financial grant will be for a period of 2 years from the date of award announcement. This assistance is nontransferable.

- **Eligibility for nomination:** The scientist not exceeding age of 55 years shall be eligible for nomination on or before the last date of application. The contribution of scientists should be known internationally or nationally in the development of cultivars /technology/product/process/ patent developed and duly supported by evidence of publications.
- **Who can nominate?** Selection will be made based on the nominations along with the relevant information (Annexure) on outstanding contributions of each nominee. The persons/institutions eligible for making nominations for the above awards would be the DDGs, ADGs of ICAR, Vice Chancellor's, Heads of CGIAR centers, Directors/Deans/Joint Directors of ICAR and SAU's/CAU and Presidents of all member societies of the CHAI and fellow of CHAI or person of repute, in the

prescribed format. Self nominations are not acceptable. The judging committee constituted by the Founder and Chairman, CHAI shall submit recommendations for approval of the Board of Directors/Founder and Chairman.

#### 5) CHAI- PADAM DR. SHRI B.H JAIN AWARD

This award has been instituted in the Name of Padma Shri Dr B.H Jain, by the Confederation, in recognition to his contributions in national and international development of agriculture, his passion for knowledge based agriculture, and empowerment of youth and farmers with new technology to make the farming profitable. Dr. Jain is not only adorned with various awards but is a testimony to create confidence among farmers, who are adopting the new technology for improving farm practices. Having national and International recognitions, the contribution of Dr. Jain as enterprising leader for converting unproductive land into a green is un-parallel. He continues serve-farming communities. Therefore, the award is instituted to recognize the extension worker and teacher in agriculture. This shall be given once in a year, and shall consist of a citation, a plaque of honor and certificate. He or she conferred with award shall be eligible to seek financial assistance .The validity of the award for seeking financial assistance will be for the period of two years, from the date of announcement of selection.

- **Eligibility for nomination:** The scientist not exceeding age of 55 years shall be eligible for nomination on or before the last date of application. The contribution of scientists should be known internationally or nationally in development of cultivars /technology/product/ process/ patent developed and duly supported by evidence of publications.
- **Who can nominate?** Selection will be made based on the nominations along with the relevant information (Annexure I and II) on outstanding contributions of each nominee. The persons/institutions eligible for making nominations for the above awards would be the DDGs, ADGs of ICAR, Vice Chancellor's, Heads of CGIAR centers, Directors/Deans/Joint Directors of ICAR and SAU's/CAU and Presidents of all member societies of the CHAI and fellow of CHAI or person of repute, in the prescribed format. Self-nominations are not acceptable. The judging committee constituted by the Founder and Chairman, CHAI shall submit recommendations for approval of the Board of Directors/Founder and Chairman.

#### 6) CHAI- RAMNANDAN BABU AWARD

This award recognizes an innovative skills of a farmer and is named after, Sri Ramnandan Babu Mahmada, Pusa, Samastipur, Bihar, who supported his family with very small holding through his innovations. This award is instituted on his name. The award will recognize the innovations in farming for enhanced productivity of land and water generating highest income per unit of land. This award will be given once in a year and shall consist of citation, a plaque of honour and certificate. He or she conferred with award shall be eligible to seek financial assistance for upgradation of Knowledge. The validity of award for seeking financial assistance will be for the period of two years from the date of announcement of the selection.

- **Eligibility for nomination:** The farmer not exceeding the age of 55 years shall be eligible for nomination on or before the last date of application. The contribution of farmer should be known internationally or nationally for his innovations in farming as evident from peer recognition, awards and documents
- **Who can nominate?** Selection will be made based on the nominations along with the relevant information (Annexure) on outstanding contributions of each nominee. The persons/institutions eligible for making nominations for the above awards would be the DDGs, ADGs of ICAR, Vice Chancellors, Heads of CGIAR centers, Directors/Deans/Joint Directors of ICAR and SAU's/CAU and Presidents of all member societies of the CHAI and fellow of CHAI or person of repute, in the

prescribed format. Self-nominations are not acceptable. The judging committee constituted by the Founder and Chairman, CHAI shall submit recommendations for approval of the Board of Directors/Founder and Chairman.

### 7. CHAI- Chautilya Lokniti Award-2023

Award is instituted in the name of an ancient Indian polymath, Chanakya, who was active as a teacher, author, strategist, philosopher, economist, jurist, and royal advisor. Chanakya has been traditionally identified as Kautilya or Vishnugupta. The award thus recognises the excellence in philosophy, public policy, teaching and strategies development. This award is given once in a year and shall consist of citation, a plaque of honour and certificate.

**Eligibility for nomination:** The personnels not exceeding the age of 75 years shall be eligible for nomination on or before the last date of application. The contribution of nominee should be known internationally or nationally for his exceptionally outstanding contributions in the field of teaching, public policy, ancient philosophy and must be a strategist and analyst evident from peer recognition, awards and documents.

**Who can nominate?** Selection will be made based on the nominations along with the relevant information (Annexure) on outstanding contributions of each nominee. The persons/institutions eligible for making nominations for the above awards would be the DDGs, ADGs of ICAR, Vice Chancellors, Heads of CGIAR centres, Directors/Deans/Joint Directors of ICAR and SAU's/CAU and Presidents of all member societies of the CHAI and fellow of CHAI or person of repute, in the prescribed format. Self-nominations are not acceptable. The judging committee constituted by the Founder and Chairman, CHAI shall submit recommendations for approval of the Board of Directors/Founder and Chair Award is instituted in the name of an ancient Indian polymath, Chanakya, who was active as a teacher, author, strategist, philosopher, economist, jurist, and royal advisor. Chanakya has been traditionally identified as Kautilya or Vishnugupta. The award, thus recognises the excellence in philosophy, public policy, teaching and strategies development. This award will be given once in a year and shall consist of citation, a plaque of honour and certificate.

### 8. CHAI- HP SINGH YOUNG SCIENTISTS AWARD FOR EXCELLENCE

This award has been instituted in the name of, Dr H P Singh, by the confederation, in recognition to his contributions in national and international development of horticulture, and his passion for the horticulture research, education, and transfer of technology, development and building the infrastructure for its support. Dr H P Sing is credited to have brought Golden Revolution, unprecedented developemmed trough his mission mode approaches and providing strategic policy support. For his contribution Dr Singh is recipient of more than 3 International, 41 National awards and 9 fellowships including the fellow of the NAAS. Adorned with various awards he is his committed to create confidence among scientists, who are converting research into knowledge for horticulture/agriculture and providing policy guidelines. Having occupied national and international positions, the contribution of H P Singh as Deputy Director General, ICAR, Vice chancellor, RAU, Pusa, Dean, CoA, Pantnagar, Commissioner Horticulture are memorable to all the scientists in the country. He continues serving community as the Chairman, CHAI and also as Chief Advisor to ASM Foundation, New Delhi. Thus, the award is instituted to recognise the scientific excellence in Horticulture by less than 50 years of age. CHAI-HPSingh Young Scientist award of excellence shall be given once in a year, to selected scientists young scientist for their distinguished scientific excellence in the field of Horticulture research, education and extension services which has impacted the development in the country. The awardees should have contribution to the furtherance of horticultur, must have peer recognition, nationally and internationally, as supported

by the publications, products, processes, cultivars and patents etc. The nomination with bio-data in performa, as given in the Annexure will be needed by the Search Committee.

- **Eligibility for nomination:** He or she nominated for H P Singh Young scientist award for excellence should have not attained 50 years of age or beyond, by the last date for nomination, and should be known for his/her contributions nationally or internationally. The period for assessment shall be based on the contributions made up to the year of nomination. The award shall consist of a certificate, citation and plaque of honour, and he or she shall become the Associate Fellow of the confederation.
- **Who can nominate?** The nomination can be made by any scientist working in horticulture research with a distinguished career, and is member of the CHAI. Selection will be made based on the nominations along with the relevant information with evidence of outstanding contributions of each nominee. The nomination can also be sent by Deputy Director Generals, ICAR, Vice Chancellors, ADGs, Directors of Research institutes/ SAU/CAU and Presidents and Secretaries of member societies of the CHAI, in the prescribed format. Self nominations are not acceptable. The Search Committee constituted by the Founder and Chairman, CHAI shall submit recommendations for the approval of Founder Chairman. This shall be a consensus decision of the committee, which shall be final.

### 9) CHAI-JSIL FELLOWSHIP

This is a sponsored fellowship to promote young scientists, entrepreneurs, farmers and the knowledge provider to participate in international conference for the presentation of new innovations. All the members are eligible. One fellowship in a year will be given based on merit. The validity of award for seeking financial assistance will be for the period of two years from the date of announcement of the selection

- **Eligibility for nomination:** The applicants not exceeding age of 55 years shall be eligible for nomination on or before the last date of application. The contribution of scientists should be known internationally or nationally in development of cultivars /technology/product/ process/ patent developed and duly supported by evidence of publications.
- **Who can nominate?** Selection will be made based on the nominations along with the relevant information (Annexure I and II) on outstanding contributions of each nominee. The persons/ institutions eligible for making nominations for the above awards shall be same as in point No.6.

### 10) CHAI- Dr RAY BEST DISSERTATION AWARD

The **Confederation of Horticulture Associations of India (CHAI)**, to recognizes the research work of the students at Ph.D. level, by conferring CHAI-Dr Ray Best Dissertation Award, based on the relevance of topic of research, quality of research output, outcome and its application in the field of horticultural sciences. This award is given once in a years. The awardees will receive the certificate, plaque of honour and free subscription of Journal – International Journal of Innovative Horticulture for 5 years. Selected candidate have to present their work in forthcoming conference, organised or supported by CHAI.

#### Eligibility for nomination

- The student who has submitted the thesis and has completed the viva voice in the year.
- The student who has been awarded Ph.D. in last preceding year, are also eligible to apply for the consideration.

- Dissertation can be in any branch of horticulture relevant to the current context of horticulture research and development.

### How to apply?

The interested eligible candidates can send their application, on or before 31<sup>st</sup> January, with full details, containing name and address title of thesis and summary of thesis along with a copy of dissertation for consideration by Confederation of Horticulture Associations of India (CHAI). The application should be sent at confedhortiamit@gmail.com and a hard copy of application along with copy may be sent to 249, Veer Awash, 18a sector, Dwarka, New Delhi-110078, phone 9871450730.

**Selection for the Award** Based on the criteria of relevance, metrology, quality of research and brevity of presentation in discussion, Selection Committee will recommend best thesis, from among the received application to Board of Directors/ the Chairman CHAI. On approval of the Board of Directors/Chairman CHAI, communication will be sent to selected candidate.

### The Award of Best Dissertation

The CHAI- Dr Ray Best Dissertation Award-2018 will be presented to selected candidates in ACGM of CHAI on 28th May, on the venue of conference

- The Award Carries a plaque of honour and certificate of appreciation
- Reimbursement of registration fee paid for participation in the conference
- Reimbursement of travel expenses not exceeding train ticket charges in 3AC
- The Awardee will be Associate Fellow of CHAI for 5 years or till he become eligible for Fellow of CHAI, whichever is earlier
- International journal of Innovative Horticulture (soft copy) will be given for five years free of cost to the Awardee
- The Awardee will be eligible to publish his research paper in the Journal, subject to approval by the peers.



**Application Form for CHAI-Dr. Ray Best Dissertation Award-2021**

To

Chairman CHAI

Thesis entitled .....

Mr/Ms .....is nominated for the award of the CHAI- Dr Ray Best Dissertation Award 2018

**Dean of the college**

Address: ..... Phone no .....

E-mail: .....

**Name of the nominee:** .....**Title of the thesis** .....

Address:.....Phone/Mobile No. :.....

E-mail: .....

**Summary of the thesis** not exceeding 300 words**Field of specialization of the nominee****Salient recommendation:****Significant achievements in research work****Innovations, if any****likely contribution in quality improvement and export promotion of horticulture****DECLARATION**

I certify that the information given above is correct to the best of my knowledge and belief. I shall abide by all the regulations of CHAI and submitted my report after participation in the Congress.

Place:

Date: Signature of the Nominee

**Certificate of Major Guide**

This to certify that research work by Mr/Ms.....of the thesis entitled ..... was done under my supervision, and the facts reported is true to my best of knowledge .

**Signature of Major Guide**

Address with phono.no. and email

### 11) CHAI- Kirti Singh BEST PAPER AWARD

This award is instituted to encourage publication of high quality research article in International journal of Innovative Horticulture. The committee examine the paper published in preceding year of award. Committee shall evaluate the published original article and recommend for conferment of award. The recommendations of s committee shall be put for approval to Board of Director /The Founder Chairman. The decision of the Founder and Chairman shall be final. The recipient of award shall be honoured with certificate and Medal . The awardee will also receive two issues of the Journal in which Papers are published.

### 12) CHAI - LIFE TIME RECOGNITION AWARD

The Confederation of Horticulture Associations of India (CHAI) to recognizes the life time Contributions of an individual on research, development and extension of specific commodity, which succeeded in achieving unparalleled growth. This shall be given once in a year or as decided by Board of Director or Chairman, as the case may be, and shall consist of a citation, a plaque of honor and certificate. He or she conferred with award shall be eligible to seek financial assistance. The validity of the award for seeking financial assistance will be for the period of two years, from the date of announcement of selection. The awardee shall become the Fellow of CHAI and can avail all the benefits admissible to the Fellow of CHAI.

- **Eligibility for nomination:** The individuals exceeding age of 55 years shall be eligible for nomination on or before the last date of application. The contribution of scientists should be known internationally or nationally in development of cultivars /technology/product/ process/ patent developed and duly supported by evidence of publications for specific commodity and its impact,
- **Who can nominate?** Selection will be made based on the nominations along with the relevant information (Annexure I and II) on outstanding contributions of each nominee. The persons/ institutions eligible for making nominations for the above awards would be the DDGs, ADGs of ICAR, Vice Chancellor's, Heads of CGIAR centers, Directors/Deans/Joint Directors of ICAR and SAU's/CAU and Presidents of all member societies of the CHAI.

### 13) CHAI- APPRECIATION AWARD

The Confederation of Horticulture Associations of India (CHAI) to recognizes the contributions of an individual in his or her career for the advancement of technology led development, with a set goal and objectives, which succeeds in bringing difference in the quality of life of the people. This award shall be given once in a year or as decided by the Board of Director or Chairman, as the case may be, and shall consist of a citation, a plaque of honor and certificate. He or she conferred with award shall be eligible to seek financial assistance. The validity of the award for seeking financial assistance will be for a period of two years, from the date of announcement of selection..

- **Eligibility for nomination:** The individuals exceeding age of 45 years or above shall be eligible for nomination on or before the last date of application. The contribution of individuals should be known, in development of cultivars /technology/product/ process/ patent developed, reforms, convergence and dissemination of knowledge, duly supported by evidence of publications for specific commodity research or achieving targeted growth in time frame and its impact,
- **Who can nominate?** Selection will be made based on the nominations along with the relevant information (Annexure I and II) on outstanding contributions of each nominee. The persons/ institutions eligible for making nominations for the above awards would be the DDGs, ADGs of

ICAR, Vice Chancellor's, Heads of CGIAR centres, Directors/Deans/Joint Directors of ICAR and SAU's/CAU and Presidents of all member societies of the CHAI.

#### 14) FELLOW OF CHAI AWARD

Certificate of membership or admission to Confederation of Horticulture Associations of India (CHAI) shall be in the form of Fellow of CHAI. There shall be Corporate Fellowship, Association Fellowship, Institutional Fellowship, NPO Fellow and Individual Fellowship. Two members each have to nominate for membership and right to admission to the CHAI is reserved presently with committee and Board of Directors. This fellowship recognizes the commitment of all the individuals, corporate sector, Institutions, NPO and associations for the furtherance horticulture/agriculture research and development. Decision of the Board of Directors/Chairman shall be final. No representation shall be entertained by the CHAI.

#### 15) CHAI-ASSOCIATE FELLOW OF CHAI AWARD

To recognise the contribution of upcoming research scholar or scientist and facilitate the to achieve excellence, CHAI has decided to honour such young talent. This fellowship recognizes the commitment of all the individuals working in any institution and is providing new concept to science. The interested individual have to apply in prescribed performa along with CV and concept of his research programme and achievements. The Awardee will get a certificate which allows him to publish and get free subscription of International Journal of Innovative Horticulture for 5 years or till he or she become eligible to become Fellow of CHAI. Decision of the Board of Directors/Chairman shall be final. No representation shall be entertained by the CHAI.

#### 16. CHAI- ACHIEVER'S AWARD

This award recognises the personnels ( Fellows), who have reached to the level of Vice chancellor or equivalent in their career and have outstandingly contributed to research, education, extension and development of horticulture and have provided leadership of par excellence. The Awardee has to be a Fellow of CHAI. This award will be given annually, depending on recommendation of Search Committee and approval by the Board of Directors of the CHAI. The Award carries a Plaque of Honour, certificate and citation.

**NOMINATION FORM FOR AWARDS/FELLOWSHIP OF THE CHAI****Name of the proposer:**

Phone/Mobile No.:

E-mail:

Address:

**Name of the nominee:**

Phone/Mobile No. :

E-mail:

Address:

Field of specialization of the nominee:

Salient contributions of the nominee:

(Restricted to one page)

Awards and recognitions received by the nominee:

**BIO-DATA OF NOMINEE**

1. Name in full (in capitals):

.....

2. Date of birth and nationality:

.....

3. Field of specialization:

.....

4. Present Position/ Designation:

.....

5. Address: (a) Official:

.....

.....

E-mail: .....

Tel No.....

(b) Residential

Address.....

.....

Mobile No.....Telephone No.....

6. Academic qualification:

.....  
 .....

7. Employment records:

Positions held.....

Organization/Institution.....

Period.... ..

8. Significant achievements (attach separate sheets restricting to a Maximum of two pages)

- a) Research, teaching and extension achievements in horticulture as evidenced by publications, technologies developed, varieties/products/process/patents etc.
- b) Awards and honors (National and international based on scientific work, Peer reviewed recognitions such as Fellowship, Office bearer of major Academy/Society, Chairman of session or Contribution in organization of important international/national symposia/seminars in relation to horticulture etc.).
- c) Innovations in horticulture
- d) Community activity for the cause of horticulture.
- e) Contribution in quality improvement and export promotion of horticulture.
- f) Continuation of dissemination of technology.
- g) Continuation in teaching and education.

**DECLARATION**

I certify that the information given above is correct to the best of my knowledge and belief.

Place:

Date:

Signature of the Nominee



**CONFEDERATION OF HORTICULTURE ASSOCIATIONS OF INDIA  
NEW DELHI (CHAI)  
(An ISO 9001:8002 certified organisation)**

**MEMBERSHIP FORM**

To  
The Chairman  
Confederation of Horticulture Associations of India  
249, Kargil Colony, Dwarka, Delhi - 110075

Sir,

May I request you to kindly enroll me as a Association/Institutional/ corporate/Individual Member of CHAI. I agree to abide by all rules and regulations of the Association. I am enclosing herewith a Cheque\* / Demand Draft/ e-transfer (drawn in favour of Confederation of Horticulture Associations of India, New Delhi) for Rs..... as my Subscription Fee. My particulars are given below:

1. Name (Block letters) : .....

2. Address (for society/institute): .....

Postal Address : .....

3. Tele No: ..... Fax: .....

4. Email Address: .....

5. Brief bio data( if not enough space please attach: .....

**Signature with date**

Nominated by. ....

**Signature**

For any further correspondence you may contact to the Founder and Chairman, Confederation of Horticulture Associations of India, 249, Kargil Colony, Dwarka, Delhi – 110078, Phone: (91-11)-28085749, mobile 0-9871450730 or 0-9582898983, Email: confedhorti@gmail.comcnfedamit@gmail.com

Membership Fee: Institutional & Corporate member- Rs. 3,50,000, Institutional Member-Rs. 150,000, Association members. Rs 1,50,000 Individual Member- Rs. 40000. For electronic transfer, the IFSC Code is IOBA0001690, MICR code: 110020054, Account number is 169001000009616, Indian Overseas Bank, Dwarka, Sector 10, New Delhi, account name **Confederation of Horticulture Associations of India.**

**Annexure-III****INTERNATIONAL JOURNAL OF INNOVATIVE HORTICULTURE****Guidelines**

The Confederation of Horticulture Associations of India (CHAI), established in the year 2010, has been devoted for the furtherance of horticulture development and has various categories of members including associations, corporate and individual memberships. The Confederation has been partner in organization of national and international conferences including National Symposium on Molecular Approaches for Management of Fungal Diseases of Crop; Global Conference on Meeting the Challenges in Banana and Plantain for emerging biotic and abiotic stresses; International Conference on Coconut Biodiversity for Prosperity; National Conference on Production of Quality Seeds and Planting Material – Health Management in Horticultural Crops; International Conference on Mango and now Global conference on “Horticulture for food, nutrition and livelihood options”, at OUAT, Bhubaneswar from 28-31, May, 2012. The confederation also recognizes services of individuals through various awards such as Dr. R.S. Paroda award for excellence in horticulture.

On the request of members across the country, the CHAI executive council decided to launch a new journal named as International Journal of Innovative Horticulture. The first issue of the journal shall be released at the occasion of General Council meeting to be held at OUAT, Bhubaneswar on 31st May, 2012. The journal shall be published both in hard form and also as open access e-journal. This journal will have peer review from India and abroad. It shall cover different aspects such as Plant Genetic Resources, Crop Improvement, Biotechnology, Production system management, Protection technologies, Post harvest technology, Secondary agriculture, Marketing and supply chain etc. related to horticulture groups, viz., fruits, vegetables, flowers, plantation, spices, tuber crops, mushroom and medicinal and aromatic crops.

The journal will publish full length research papers at an interval of six months initially which will be converted into quarterly publication in the years to come. Besides full length papers, the journal shall cover information on newly released varieties or achievement of high order as short communication and highlights of dissertation for wider coverage.

**Author Instructions**

The International Journal of Innovative Horticulture (IJIH) is a biannual publication of Confederation of Horticulture Associations of India (CHAI). The Journal contains papers on results of original research on horticultural plants and their products or directly related research areas. Its prime function is communication of mission-oriented, fundamental research to other researchers, to professional horticulturists, practitioners, and educators; to promote and encourage the interchange of ideas among scientists, educators, and professionals working in horticulture.

**Manuscript Submission**

Any information that is already in the public domain in a scientific context will be considered published and will not be published again by the International Journal of Innovative Horticulture.

All papers must be submitted online through email to confedhorti@gmail.com

**Copyright**

CHAI retains copyright for all Society publications. Permission to reprint, republish, or reproduce individual contributions or parts of contributions must be obtained from CHAI in writing. Also, CHAI requires that credit be given by indicating the volume number, pagination, and date of publication.

### Review Policy and Procedure

Before submission, manuscripts must be reviewed by two colleagues and revised appropriately, with the names of the reviewers included on the manuscript submission form. Manuscripts must be in IJH style to be considered for publication. Submitted manuscripts that do not conform to standards will be returned to authors for correction. Manuscripts submitted for publication are reviewed by Editors who solicits at least two additional peer reviews. The purpose of the reviews is to assure readers that competent, independent professionals have found the published papers acceptable. Some revision is usually necessary after the reviews, and final acceptance generally depends on satisfactory revision. A manuscript will be considered withdrawn if the author will not respond within 2 months to a request for revision.

### Procedure After Acceptance

After acceptance of the manuscript, authors will receive an email message from the Editor-in-Chief instructing them to send an email with the final version of the manuscript including figures (as attachment). Send text in Microsoft Word and if you have nonstandard word processing software, submit a Rich Text Format. Preferred formats for graphics are EPS, WMF, TIFF, JPG with high resolution (preferably 200 dpi). Page proofs are sent in PDF format via email to the corresponding author.

### Manuscript Preparation

Your paper must be in the correct format for submission. Please double-space all text. Authors must provide the names and email addresses of five potential reviewers for your paper. They are also asked to give the names of two colleagues who provided an internal review. A manuscript number will assign to each new or resubmitted manuscript; refer to this number in all subsequent correspondence. Upon receipt of a manuscript, the author will be sent an acknowledgment email message indicating the date of receipt and the manuscript number.

The journal accepts publication under following category:

- Full-length research reports
- Reviews
- Variety releases
- Features, colloquia, and workshops
- Reports
- Viewpoints
- Technology and product reports
- Book reviews

Examples of Reference style from different publications

#### Journal article

Vessey, J.K., E.K. York, L.T. Henry and C.D. Raper, Jr. 1988. Uniformity of environmental conditions and plant growth in a hydroponic culture system for use in a growth room with aerial CO<sub>2</sub> control. *Biotronics*. 17:79-94.

#### Book

Gomez, K.A. and A.A. Gomez. 1984. *Statistical Procedures for Agricultural Research*. 2nd Ed. Wiley, New York.

#### Chapter in book

Cull, B.W. 1987. A whole plant approach to productivity research for mango, In: *Mangoes—A review*. R.T. Prinsley and G. Tucker (Eds.). p. 19–28. The Commonwealth Secretariat, London.



**Symposium/meeting proceedings**

Wample, R.L., and T.K. Wolf. 1996. Practical considerations that impact vine cold hardiness. In :Proceedings for the Fourth International Symposium on Cool Climate Enology and Viticulture. T. Henick-Kling et al. (eds.), pp. 23-38. New York State Agricultural Experiment Station, Geneva. Tapia, M.I. 1995. In vitro plant regeneration of grapevine (*Vitis* sp.) hybrid cultivars and genetic transformation through microprojectile bombardment of in vitro-derived axillary buds. Ph.D. Thesis, University of Nebraska, Lincoln, Nebraska.

**Patent**

Garner, I. December 2002. Process for unbalanced wine. U.S. patent 123,456,789.

**Abstract**

Walker, M.A., H. Ferris, and L. Zheng. 2006. Rootstocks with broad and durable nematode resistance. Abstr. Am. J. Enol. Vitic. 57:383A. Reference for Conference/Symposium

### GUIDELINES FOR PEER REVIEW

Please review the manuscript as you would want one of your manuscripts reviewed. Provide as many constructive comments and useful recommendations as possible. Provide the reasons for your evaluation of the manuscript.

As a reviewer you have the responsibility for providing a constructive, well-reasoned appraisal of manuscripts phrased in the spirit of professional courtesy. For each manuscript you should be able to provide a clear and definite answer to the following questions:

1. Has any material in this article been published previously? If so, please supply details to the editor.
2. Is the research of adequate significance (new findings, confirms or contradicts other work) to warrant publication?
3. Is the research scientifically sound?

The following outline derived from information in the Council of Biology Editors Style Manual may assist you in your evaluation of a manuscript.

#### 1. Title

- i) Is the title appropriate and clear?

#### 2. Abstract

- i) Is it specific and representative of the article?
- ii) Is the motive for the research indicated?

#### 3. Introduction

- i) Identify subject, is the subject of the article clearly identified?
- ii) Orient research to previous concepts and research.
- iii) Is the objective and/or hypothesis important for the area of research?

#### 4. Materials and Methods

- i) Design, is the design appropriate for the purpose of the study?
- ii) Model, is the statistical analysis clearly presented with the most appropriate method for treatment comparisons?
- iii) Subject(s), are all plants and chemicals identified?
- iv) Materials, are the materials used in study adequate?
- v) Procedures, is there sufficient detail to enable the reader to duplicate the procedures?
- vii) Methods for observations and interpretation.

#### 5. Results

- i) Are the results presented in a logical sequence to support the hypothesis?
- ii) Are the tabular data summarized or merely repeated in the text?

**6. Discussion**

- i) Interpret data presented in Results in a succinct manner. Are there errors of fact or interpretation?
- ii) Relate findings to previous research. Is the relationship between the results and previous work relevant?
- iii) Has the author cited all and only pertinent literature?
- iv) Reasons for differences in results.
- v) Implications for practical application and future research.

**7. Conclusions**

- i) Are conclusions stated briefly in a logical order?
- ii) Considerable time can be saved by entering spelling corrections, grammatical suggestions, and word rearrangements directly on the manuscript.

**DESCRIPTION OF CATEGORIES**

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**Requires major revision**

- i) Major improvement in style or presentation required.
- ii) Some revision required in description of methodology and/or discussion and interpretation of results.
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**Unacceptable**

- i) Not relevant to IJH
- ii) Unsuitable experimental procedures.
- iii) Insufficient contribution to knowledge.
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