



CHAI AWARDS & FELLOWSHIPS 2018

Publishing Partner 



CHAI

Awards & Fellowships - 2018



CONFEDERATION OF HORTICULTURE ASSOCIATIONS OF INDIA

(An ISO 9001:2008 Certified Organisation)

249, Vijayee Veer Awas, Kargil Apartments, Sector 18A

Dwarka, New Delhi – 110078

Email: confedhorti@gmail.com

Web: www.confedhorti.org

Published by

Confederation of Horticulture Associations of India
249, Vijayee Veer Awas, Kargil Apartments, Sector-18A, Dwarka, New Delhi – 110078
Tel: 011-28085749, Mob: 9871450730
Email: confedhorti@gmail.com
Web: www.confedhorti.org

Compiled and Edited by

Dr. Babita Singh
Binod Anand

Citation

CHAI Awards & Fellowships - 2018
Confederation of Horticulture Associations of India
New Delhi

Disclaimer: All rights are reserved. No part of this report shall be reproduced or transmitted in any form, print, microfilm or any other means without written permission of the Confederation of Horticulture Associations of India, New Delhi. Briefs mentioned about the associations, corporate, non-profit organizations and individual members are based on the information given by them. The compilers of the Confederations are nowhere responsible for the mentioned facts.

Publication Partner

Westville Publishing House
47, B-5, Paschim Vihar, New Delhi - 110063
Tel: 011-25284742, 011-45521968, Cell: 0-9868124228 Email: westville_2002@yahoo.co.in
www.westvillepublishing.com



Dr. H.P. Singh

Chairman, CHAI and National Council on Agriculture, ASSOCHAM
Confedhorti@gmail.com

From the Desk of the Founder and Chairman

The **Confederation of Horticulture Associations of India (CHAI)**, was established in the year 2010, with commitment for the furtherance of horticulture/agriculture research, education and development. The CHAI has brought organisations and individuals on a forum to work together for achieving its goal of technology-led development. The CHAI is addressing a concern of food and nutritional security, through knowledge sharing, dissemination of knowledge and appreciating the work of individual through award and rewards. Since, its inception, the Confederation has partnered and supported the organisation of national and international conferences and has also organised many workshops and conferences on topical issues. The **International Journal of Innovative Horticulture**, was launched in 2012, and is continued. Till date, 6 Volume (1&2 issues) have been published. Besides, publication of Journal, the CHAI publishes, CHAI-Yearbook, CHAI-Awards and Fellowships, GyanManthan, policy papers and Proceedings.

The confederation has instituted various awards to recognise the services of individuals, which includes, **CHAI-Honored Fellow**, for exceptionally outstanding contributions, which made difference and brought revolution, **CHAI-Lifetime Achievement Award**, conferred for the leader of par excellence in research and development, the **CHAI-Honorary Fellow**, recognises excellence in horticulture/agriculture research and development, **CHAI-R.S. Paroda Award**, is given for excellence in horticulture science, **CHAI-B.H. Jain Award**, for excellence in teaching or dissemination of technologies. **CHAI- RamnandanBabu Award** is for excellence in farming, **CHAI-JSIL Fellowships** is given for visit abroad to attend conference and training. **CHAI-Life Time Recognition Award** recognises outstanding contributions and providing leadership in specific crop commodity. **CHAI-Appreciation Award**, is given for distinguished contributions and excellence in the field of specialisation. The **CHAI-Dr. Ray Best Dissertation Award** is given for excellence in postgraduate research. The **CHAI-Best Paper Award** is conferred for publication of paper in IJIH. CHAI Fellowship is provided in different category to individuals and institutions. During the year, CHAI-Honoured Fellow Award was conferred on Dr RB Singh, Chancellor, CAU, Imphal and Dr Trilochan Mohapatra, Secretary DARE and DG, ICAR. Recipient of Honourary Fellows of CHAI were Dr N S Rathore, DDG, ICAR, Dr K V Peter, Former VC, KAU, Kerala, Dr N. N Singh, Former VC, BAU, Ranchi, Dr J .S Parihar, Former Dy Director, ISRO and Dr. V.V Sadamate, Former Advisor, NITI Ayog. The CHAI - life Time Achievements Award was conferred on Dr. K.V Peter, CHAI-R.S Paroda Award on Dr. Anil B Patil, VP, JISL CHAI- B .H Jain Award on Dr Ashok Mishra, JISL and CHAI- RamnandanBabu Award on Mr Bhagwat V Patil. Dr. R.C. Srivatava, VC, DRPCAU, Pusa, Bihar, received JISL Fellowship and CHAI life Time Recognition Award was conferred

(iv)

on Dr. N.N Singh, Former VC, BAU, Ranchi and Dr. H .S Gupta, Former Director, IARI. Fellow of CHAI was conferred on selected nominations from across the country. During the year 10 CHAI-JSIL Fellowship has been announced to facilitate the participation of CHAI Fellows in International Horticulture Congress being organised by International Society of Horticultural Sciences which is headquartered in Belgium at Istanbul, the financial capital of Turkey, from 12-16 August, 2018.

During my visits to farmers' fields, it has been fascinating to see the adoption of technologies for production enhancement and thirst of farmers for new knowledge. Accordingly, the **CHAI** took an initiative to organise **Knowledge Sharing Workshops** at various locations on topical issues involving instructions, industry, the farmers and other stakeholders. The Workshop is designed to provide opportunity to all the stakeholders, for sharing the knowledge and it's dissemination for the formulation of policy, which become a guiding principles for achieving goal and objectives of smart horticulture. Deliberation in workshop is held on the issues in the thematic areas providing more time for discussions to arrive at logical conclusion. In past, 10 workshops have been organised, besides, supporting conferences, symposia and Sangosthi, at different locations with various themes to catalyse the efforts of farmers and have succeeded in empowering farmers and providing policy frame work.

During the year, CHAI supported and partnered in **National Conference on Technological Changes and Innovations in Agriculture for Enhancing Farmers' Income**, organised by **ASM Foundation**, New Delhi at JAU, Junagadh, Gujarat, which was a great success in terms of participation, technical contents and outcome. KisanSangosthi at Pusa held on 3rd September was also supported. Workshop on pomegranate and potato at Disa, Gujarat and a conference on litchi, at Muzaffarpur were organised. A Knowledge Sharing Workshop on Tropical fruits-Banana and pomegranate, organised at Anantpuram on 5th November, 2017 was 11th in series. The workshop had overwhelming response from scientific institutions, the Government, industry and the farmers. The Workshop had effective interaction and discussions, which was highly fruitful in the terms of output, outcome and impact. A conference on Organic Agriculture-Advantage India organised by ASSOCHAM, on 21st March, was also partnered by CHAI. The CHAI is partnering a **National Conference on Intensification and Diversification in Agriculture for Livelihood and Rural Development** being organised at DRPCA U Pusa, Bihar, 28-31, May 2018, by ASM Foundation, New Delhi. The Chairman, as the Chairperson of ASSOCHAM Council on Agriculture and Food Security organised many meetings and conferences and chaired many meetings, where CHAI was highlighted for its contributions.

Recognising the role of CHAI in transforming horticulture/agriculture, there has been an overwhelming responses and the fellowships have reached to 290, including Institutional and Corporate Fellows. The CHAI has also signed a MoU with Centre for Innovations in Public Systems (CIPS), Hyderabad, the Government Institution, set up over the recommendations of 13th Finance Commission for working together. The growing interest of joining hands with CHAI from corporate, institutions, societies and individuals has buildup confidence to serve the community for achieving the mandate of confederation.

I am confident that CHAI shall emerge as an organisation to make us proud, to be its fellow, for the furtherance of agriculture/horticulture. I express my heartiest thanks to all the fellows for their effective cooperation. Few of our fellows have left us to heavenly adobe. I place on record their contributions and pray to God for their eternal peace and easy passage to heaven for the departed soul. I thank all, who helped in bringing out this CHAI Award and Fellowships. I am sure for the continued support of all the Fellows. I have pleasure in presenting the CHAI Award and Fellowships-2018, with all the details. 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 the CHAI

Confederation of Horticulture Associations of India (CHAI), an ISO-9001:2008 certified non-profit 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 and facilitating the converging policies at the grass root level nationally and internationally for sustaining integrated development 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 in all its dimensions. The CHAI is also committed for 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 various national/international/global conferences and workshops for the exchange of information 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, review articles and case studies is brought out six monthly. To promote innovative ideas, the CHAI has instituted many awards which inspires individuals and team for the innovations and excellence. The CHAI offers various categories of Fellowships i.e. organization, associations, corporate, NPO 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 established its units in many states to serve agriculture/horticulture at regional level.

Mission

CHAI is committed for the 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

The vision of the CHAI is to 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

The goal of CHAI is to play a catalytic role, in addressing a concern of food and nutritional security, 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.
- 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 and 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 recognize 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 and, services in education, and is providing solutions to the problems. Awards and Fellowships are instituted to recognise the contributions of scientists and other stakeholders in the research and development in the country and also abroad. The Confederation has instituted various awards, which includes Honoured Fellowship for leadership of par excellence, Life Time Achievement Award for distinguished life time contributions in horticulture, Honorary Fellowship for noticeable contributions and commitment to furtherance of horticulture, Dr. R. S. Paroda Award for Excellence in research and academics. Dr. B.H. Jain Award for excellence in transfer and diffusion of technology, and Ram NandanBabu Award for excellence in farming. CHAI-Life Time Recognition Award has been instituted to recognise outstanding contribution and providing leadership in specific crop commodity. CHAI-Appreciation Award is given for distinguished contributions and excellence in the field of specialisation. To encourage the students, the CHAI has instituted Dr. D. P. Ray Best Dissertation Award in recognition of significant post graduate research work. Best Paper Award is given for scientific article published in IJIH, are also awarded. CHAI Fellowship is conferred to subscribers for their commitment in furtherance of agriculture / horticulture. CHAI-JISL Fellowship is provided for training abroad to meritorious members. Considering the needs for dissemination of science based knowledge among scientists for the furtherance of agriculture/ horticulture science, an International Journal of Innovative Horticulture (IJIH) is also published besides newsletter, books, annual report, CHAI Year Book and GyanManthan, which has 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

(vii)

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 education.

- More than 290 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 and also in Dubai to attend to all the types of work for business solution options.
- The CHAI is also a non-profit 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 through partnering in activities of conference organised by various 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**, 11-14th, March, 2010 New Delhi; **National Conference on Horticultural Bio-diversity for Livelihood, Economic Development and Health Care**, 28-31st, May, 2010, Bengaluru; **International Conference on Coconut Biodiversity for Prosperity**, 25-28th, October, 2010, Kasargod, Kerala; **Global Conference on Meeting the Challenges in Banana and Plantain for Emerging Biotic and Abiotic Stresses**, 10-13th, December, 2010, Trichy, Tamil Nadu; **National Symposium on Molecular Approaches for Management of Fungal Diseases of Crop Plants** 15-20th, December, 2010, Bengaluru; **National Conference on Horti Business-Linking Farmers with Market**, 28-31st May, 2011, Dehradun, Uttarakhand; **Global Conference on Augmenting Production and Utilization of Mango: Biotic and Abiotic Stresses**, 21-24th, June, 2011 Lucknow; **Global Conference on Horticulture for Food, Nutrition and Livelihood options**, 28-31st, May, 2012, Bhubaneswar; **National Conference on Sub-Tropical Fruits**, 9-12th, January, 2013, Navsari, Gujarat; **Brain Storming Session on Nano-Bio-Information Technology for the Development of North Western Himalayan States**, 12-13th, July, 2013, Pantnagar, Uttarakhand; **National Workshop on Urban and Peri-Urban Horticulture**, 21st December, 2013, Navsari, Gujarat; **National Conference on Value Chain Management in Mango**, 20-22nd, March, 2014 Kolar, Karnataka; **Global Conference on Technological Challenges and Human-Resource for Climate Smart Horticulture- Issues and Strategies**, 20-31st, May, 2014, GAU, Navsari, Gujarat; **National Conference on Dynamics of Urban and Peri-Urban Horticulture**, 21st October, PHD house, New Delhi; **National Conference on Dynamics of Smart Horticulture for Livelihood and Rural Development**, organised by **ASM Foundation**, New Delhi and **MGCGV**, Chitrakoot, Satna, Madhya Pradesh, from 28-31st May, 2015. CHAI was a Knowledge Partner in Smart Agriculture- Geo Agri with the theme Technologies empowering Indian Agriculture organised at NOIDA on 2nd -3rd March 2016. The Confederation supported the conference organised on Pomegranate, at JISL, Jalgaon during April, 2016. CHAI partnered a Global Conference on **Challenges and Options in Agriculture** organized by **ASM Foundation**, New Delhi and **Jain Irrigation Systems Limited**, Jalgaon, at Jain Hills, Jalgaon, Maharashtra, on 28-31st May, 2016, which was a great success in terms of participation, technical contents & outcome. The conference was inaugurated by Shri S.K. Pattanayak, Secretary, Agriculture, Govt. of India, and was presided over by PadamBhushan Dr. R.S. Paroda, Former Secretary, DARE& DG (ICAR). The CHAI supported the

(viii)

organisation of two days conference on pomegranate organized, at Jain Hills Jalgaon, on 16-17, April, 2016, which was inaugurated by Honduras former union Minister of Agriculture, SaradPawarji. In the conference issues of farmers were resolved and strategies for improving production and productivity was developed. The CHAI also facilitated the organisation of KisanSangosthi, on 3rd September at Mahmada and 1st November at Dholi, Muzaffarpur. During the year, CHAI supported and partnered in **National Conference on Technological Changes and Innovations in Agriculture for Enhancing Farmers' Income**, organised by **ASM Foundation**, New Delhi at JAU, Junagadh, Gujarat, which was a great success in terms of participation, technical contents and outcome. The CHAI is partnering a **National Conference on Intensification and Diversification in Agriculture for Livelihood and Rural Development** being organised at DRPCA Pusa, Bihar, 28-31, May 2018 by ASM Foundation, New Delhi. 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.

Conferences/Workshops Organized

The CHAI has been organising workshop on the topical issues. First workshop organised by the CHAI was on **Urban and Peri-Urban Horticulture, Bangaluru**, on 2nd March, 2013 with the theme – Greening the cities, utilising the waste, meeting the needs and servicing the environment. The workshop deliberated issues in four technical sessions and concluded with adaptation of recommendations and Bangalore Declaration for catalysing the Urban and Peri-Urban Horticulture. In the year 2014 on 1-2nd March, CHAI organised a knowledge sharing workshop on Tropical Fruits with a Value Chain Management for Enhancing Farm Profitability. The workshop was attended by 200 participants, largely, the farmers, who were infused with new knowledge, especially on banana, mango and pomegranate. The workshop became a unique approach for addressing the issues in tropical fruits. During the year, 2014-15, CHAI organised 02 International Conferences and 01 National conference, supported 01 global and many national conference and workshops. An International Conference on Floriculture and Landscape Gardening –Challenges and Opportunities: was organised at Pune on 27th February. In 2016, in collaboration with Media Today, The CHAI organised a National Workshop on Quality Production of Banana for Export and Domestic Market on 29th May 2016 at Jain Hills Jalgaon, which brought farmers, professionals and entrepreneurs together to discuss quality assurance in banana, to be competitive in export and domestic market. A workshop on **Dynamics of Challenges and Options in Integrated Aquacultures**, was organised on 2nd November, 2016 at Patna, which provided an options to discuss aquaculture for improving the income of the farmers through integration with horticulture, and was participated by over 100 farmers and entrepreneurs, besides senior level experts, and representatives of various organizations. The workshop also analysed past trend in technological changes in fish production and value chain management to develop a policy guidelines. One day National Workshop on **Technological Changes and Innovations in Pomegranate Production and Utilization for Enhancing Farmers' Income** was organized by the **CHAI**, on 26th September, 2016, at JAU, Junagadh, Gujarat, in collaboration with Junagadh Agricultural University (JAU) and Jain Irrigation Systems Limited, Jalgaon and ASM Foundation, New Delhi. Focus of the workshop was to discuss the technological changes, which have modernised the production and value chain management in pomegranate, and empowered the farmers with new knowledge, so that they can enhance their profits and reduce the risks. With the similar objectives and theme, one day workshop was also organised at Agriculture University, Jodhpur, Rajasthan, India on 10th December, 2016, for the benefit of Rajasthan farmers, which provided an options to discuss pomegranate for improving the income of the farmers through technological interventions. More than 200 farmers and entrepreneurs besides senior level experts, and representatives of various organisations participated and provided their inputs for developing strategic recombination and policy. In the month of March, the CHAI organised a two days National Conference on **Perspective of Challenges and Options in Maize Production and Utilization**, in collaboration with DRPCA,

Pusa, TAAS, New Delhi, JISL, Jalgaon and the ASM Foundation, Mahmada, Pusa, from 3-4th March 2017 at DRPCA, Pusa, Samastipur, Bihar. The conference analysed the current situation and developed strategies for doubling production and income of farmers in 6-7 years time frame, after discussion with over 300 delegates representing farmers, expert professionals, entrepreneurs and representatives of Industries. Workshop on pomegranate and potato at Disa, Gujarat and a conference on litchi, at Muzaffarpur were organised. A Knowledge Sharing Workshop on Tropical fruits-Banana and pomegranate, organised at Anantpuram on 5th November, 2017 was 11th in series. The workshop had overwhelming response from scientific institutions, the Government, industry and the farmers. The Workshop had effective interaction and discussions, which was highly fruitful in the terms of output, outcome and impact. A conference Organic Agriculture-Advantage India organised by ASSOCHAM, on 21st March, was also partnered by CHAI.

Meetings of Board of Director and General Council Meeting

To review the technical and financial progress, the Board of Directors meets as per the needs, are hold meetings, at least, 4 times in a year. General Council meets once in a year on 28th or 29th May. First Executive Council and General Council meetings were held on 29th and 30th May, respectively, and distinguished fellows were honoured with CHAI Fellowship for their commitment to furtherance of horticulture, and various awards were conferred. Second Executive Council and General Council meeting were held on 29th 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. In the meeting, Dr. A.R. Pathak was invitee and the meeting was attended by over 60 fellow. The Council authorized 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 29th May 2014, where in fellowship was conferred to all the members, who joined CHAI in 2013-14, and progress was reviewed. Activities were well appreciated. 4th Annual General Council Meeting was held at MGCGV, Chitrakoot, Satna, Madhya Pradesh on 29th May 2015, where in fellowship was conferred to all the members, who joined CHAI in 2014-15, and progress was reviewed. Activities were well appreciated. The meeting also elected Dr. R. K. Tyagi, Head, Genetic Conservation Division, NBPGR as General Secretary to assist the Chairman. 5th AGCM of CHAI was held at JISL, Jalgaon where in Dr. R.S. Paroda, Chief Patron chaired the meeting. The Chairman welcomed the chief patron and gave a brief account of progress report and financial update. The progress and corpus fund of CHAI was well appreciated. The Chief patron and fellows complimented the Chairman, Dr. H.P. Singh for such achievement. A book on CHAI Awards and Fellowships and CHAI Brochure were released. Thereafter, the fellows, who were upgraded to higher positions were felicitated by conferring shawl and certificate of appreciation. Thereafter, Honorary Fellowship of CHAI and CHAI - Fellows were conferred to selected nominee. The Chief Patron congratulated all the awardees and complimented all the fellows and the Chairman for achieving such a growth of CHAI. The 6th AGCM of the CHAI was held at JAU Junagadh to review the progress and provide direction to the secretariat to achieve aims and objectives. Dr R B Singh, Chancellor, was the chief guests. The progress was well appreciated and all fellow reposed the responsibility on chairman, to take decision as he it deem it fit in the best interest of CHAI. The chief Guest and chairman conferred fellowship and awards on selected individual and institution.

Participation in Exhibitions

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

Institution of Awards and Fellowships

To recognise the contribution of scientists and other stakeholders in the research and development of horticulture/agriculture in the country and also abroad, the Confederation has instituted various 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 **CHAI-Honoured Fellow**. **CHAI-Life Time Achievement Award** is given for outstanding contributions, in research and development of horticulture. The distinguished members are also honoured with **CHAI- Honorary Fellow**, for their excellence and commitment to furtherance of horticulture. **CHAI-Dr. R.S. Paroda Award** is given for excellence in science and technology, **CHAI-Dr. B H Jain Award** recognises an excellence in knowledge empowerment and dissemination, **CHAI-Ram Nandan Babu Award** is given to innovative farmers for their excellence in farming, **CHAI-JISL Fellowship** is given for visit abroad to attend conferences and training. **CHAI-Life Time Recognition Award** is given for outstanding contribution and providing leadership in specific crop commodity, **CHAI-Appreciation Award**, is given for distinguished contributions and excellence in the field of specialisation. **CHAI-Dr. D.P. Ray Dissertation Award** is given for Best Dissertation at Master's level and **CHAI-Best Paper Award** is given for 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.

PUBLICATIONS

International Journal of Innovative Horticulture

Considering the needs for dissemination of science based knowledge among scientists for the furtherance of horticulture science: 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, has an international look and shall consider original papers on multi-disciplinary aspects. The journal is published bi-annually. The types of papers include Research, Reviews, Case studies, New cultivars and technologies, Commentaries and opinions, Policy issues, Abstract of Ph.D. thesis, Book Reviews, Features, Colloquia and Workshops. The 6 volumes have been published and the NAAS also enlisted the Journal. 7th volume (2016) of the Journal has been published and Volume 7(1), 2018 is in process of publication.

Membership Benefits of CHAI

The CHAI team consists of different categories of membership i.e. Institutional, Corporate, Association, Non-profitting Organization (NPO) and Individual Members. Membership of the Confederation is open to individuals/ firms, organizations and societies/associations subscribing to the objectives of the CHAI by donation ranging from Rs.25000 to Rs.100000/-. 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 membership, with a plaque of honour in the Annual Council Meeting as Fellowship of CHAI.

(xi)

- 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 award 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/ The Founder and Chairman. Only one or two fellowships for visit abroad will be available in a year.

Contents

<i>From the Desk of the Founder and Chairman</i>	<i>iii</i>
<i>About the CHAI</i>	<i>v</i>
1. CHAI-Honoured Fellow	1
2. CHAI-Lifetime Achievement Award	2
3. CHAI-Honorary Fellow	2
4. CHAI-Dr. R.S. Paroda Award	5
5. CHAI-Dr. B.H. Jain Award	6
6. CHAI-Ram Nandan Babu Award	6
7. CHAI-JISL Fellowship Award	7
8. CHAI-Dr. D.P. Ray Best Dissertation Award	7
9. Best Paper Award	7
10. CHAI-Life Time Recognition Award	8
11. CHAI-Appreciation Award	9
12. Fellows of CHAI	12
13. Guidelines of Awards and Fellowships	24
14. Nomination Form for Awards/Fellowships of the CHAI	33
15. Membership Form of the CHAI	35
16. International Journal of Innovative Horticulture – Guidelines	36
17. Guidelines for Peer Reviewed	39

Awards and Fellowships - 2018

1.0 CHAI-Honoured Fellow

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 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.

1.1 Prof. Ramesh Chand (CF-290)



Prof. Ramesh Chand is currently Member of NITI Aayog & the Fifteenth Finance Commission (in the rank and status of Union Minister of State). He has a Ph.D. in Agricultural Economics, from Indian Agricultural Research Institute (IARI), New Delhi, and has over three decades of experience in research and teaching, in the field of agricultural economics and policy. He has been involved in policy formulation for agriculture sector, for the last two decades. Prior to joining NITI Aayog, he was Director National Institute of Agricultural Economics and Policy Research, New Delhi.

In the past, Prof. Ramesh Chand worked in senior academic positions as ICAR National Professor; Professor and Head, Institute of Economic Growth, Delhi University; and Professor at Punjab Agricultural University, Ludhiana. He has been Visiting Professor at University of Wollongong, NSW Australia and at Institute of Developing Economies, Chiba Shi, Japan. Prof. Chand has also been consultant with international organisations, such as FAO, UNDP, ESCAP, UNCTAD, Commonwealth and World Bank. He has chaired important committees on Food and Agricultural Policy, set up by various Ministries, Govt. He served as India's nodal officer of agriculture for SAARC, for 7 years and represented India in meetings of G20, UNESCAP. Prof. Ramesh Chand is also Member of Board of Trustees (BOT) of CIMMYT (International Maize and Wheat Improvement Center), Mexico, The Policy Advisory Council (PAC) of the Australian Centre for International Agricultural Research (ACIAR), Canberra, Australia and World Economic Forum's Global Future Council on the Future of Food Security and Agriculture. Prof. Chand is recipient of prestigious Jawaharlal Nehru Award, 1984, and Rafi Ahmad Kidwai Award, 2006, from Indian Council of Agricultural Research. He is Fellow of National Academy of Agricultural Sciences (NAAS) and Indian Society of Agricultural Economics. He was President of the 2016 Annual Conference of the Indian Society of Agricultural Economics, held at Mumbai, India. He is also the President-elect of the Agricultural Economics Research Association (AERA) 2018, scheduled to be held at NDRI, Karnal, India. Prof. Chand has authored seven books and has published more than 150 research papers in reputed national and international journals, in the areas of agriculture - production, growth, development policy, farmers' issues, markets and trade.

Address: Member, NITI Aayog, Room No. 110, NITI Aayog, New Delhi. Phone No. 91-011-23096756, 23096774, 23730678 email: rc.niti@gov.in

2.0 CHAI-Life Time Achievement Award

The CHAI-Life Time Achievement Award recognises 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.

Dr. P. Rethinam (CF-024)



Dr. P. Rethinam, born on 1st July, 1942, in Madurai, Tamil Nadu, India, earned his graduation and post-graduation in agriculture from TNAU. He started his career as Research Assistant in 1963, Assistant Lecturer and Assistant Professor up to 1976 and then joined ARS in 1976. He became Project Coordinator (Palms) in 1982 and was responsible for research coordination and management. He widened the scope of the project by including Oil Palm and Palmyrah and was instrumental for release of coconut hybrids. He was selected as Assistant Director General (Plantation Crops), ICAR New Delhi in 1988 and coordinated the research on Plantation Crops, Medicinal

and Aromatic Crops and Betel vine. He established the National Research Centre for Oil Palm at Pedavegi, A.P. He was instrumental in setting up the Oil Palm Seed gardens in the country under TMOP in three states. Dr. Rethinam was selected as the Chairman, Coconut Development Board, Kochi, Ministry of Agriculture, Government of India in the year 2001, subsequently as Executive Director of Asia and Pacific Coconut Community, in January, 2001 His contribution to the value addition of coconut, like promoting tender coconut water, virgin coconut oil, coconut bio diesel etc. are well known in the Asian & Pacific countries. He served in many national and international committees and was Vice-President for BUROTROP, 2002-04, and Member of COGENT Steering Committee, 2002-2006. He has published 215 articles, co-edited two volumes of the books on Recent Advances in Plantation Crops, edited 37 books and many technical bulletins. His contributions earned him many awards, to name a few are: Konda Reddy Gold medal and Rolling Shield; Dr. Nathanael Gold Medal and Life Time Achievement Award in Plantation Crops; KalpaVriksha Award; Dr. M H Marigowda National Award -2008; UdyanRatan Award -2009 by Lt. Amit Singh Memorial Foundation; HSI-Sivashakti Life Time Achievement Award-2010 and Achievers' Award-2010, AIPUB. He is the founder President of Society for Promotion of Oil Palm Research and Development. He is Fellow of Horticulture Society of India, Indian Society for Plantation Crops, Indian Society for Plant Genetic Resources, International Society for Noni Science and AIPUB. He is also Life Member of National Academy of Biological Sciences. He served as Chairman, QRT as well as Research Advisory Council of many ICAR Institutes and National Research Centres.

Address: Plantation Crops Management Specialist 18, Lakshmi Nagar, S.N. Palayam Coimbatore-641007, Tamil Nadu, India. Phone: 91-422-2430832 (home), 91-9443751386 (cell) Email: palms02@hotmail.com, Palms002@yahoo.com and dr.rethinam@gmail.com

3.0 CHAI-Honorary Fellow

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 in India or abroad.

3.1. Shri Chiranjivi Choudhary, IFS (CF-267)



Shri Chiranjivi Chaudhary, IFS working as Commissioner Horticulture in Department of Horticulture, Andhra Pradesh. He was born in Purnea district Bihar in the year 1965. He had early schooling at Sainik School Tilaiya, Hazaribagh and graduated from Raj Hans College, University of Delhi and earned his M.Sc. in Anthropology in 1987. While doing M.Phil., he completed IFS and subsequently also completed Master in Public Policy and sustainable development from TERI University, Delhi in 2009. In his career spanning 26 years he worked in various positions in Forest Dept, Rural Development, Tribal Development, Water Resources Dept. in the State Govt. and he is currently Commissioner Horticulture and Vice Chancellor of Dr. Y S R Horticultural University. He also worked on deputation in the Ministry of Rural Development, Govt. of India, and as Sr. faculty at LalBahadur National Academy of Administration, Mussoorie. As a Commissioner Horticulture, he is a prime mover of horticultural development in the state and has many initiatives to his credit which has impacted for the development of horticulture. As a Vice Chancellor, he had provided dynamic leadership to the education of horticulture, research and development and has been instrumental to various programmes. He has authored 3 books on incidental command system and principle of disaster management and published many papers in various journals. He is a guest faculty at National Centre for Good Governance, LBSNA, Mussoorie ASCI, Hyderabad and has imparted training to more than thousand officers in Incident Response System and Disaster Management. He has also co-authored Risk Governance for improving Rural Disaster and good.

Address: Vice-Chancellor (FAC) & Commissioner of Horticulture & Ex-Officio Secretary to Government, Agriculture and Cooperation (Horti.& Seri.) Department, Dr.Y.S.R Horticultural University, Post Box # 7, Venkataramannagudem-534 101, West Godavari District, Andhra Pradesh; Email: vcaphu@gmail.com, vc@drysru.edu.in

3.2 Dr. Arjun Singh Saini (CF-276)



Dr. Arjun Singh Saini was born on 6th October, 1968, completed his High School in 1984 from SMB Gita Higher Secondary school from Kurukshetra and graduated in agriculture in 1989, earned his M.Sc in horticulture in 1991 and Ph.D. 1994 respectively from Hisar Agricultural University. Subsequently, he also earned Post Graduate Diploma, Environmental Education in 1992. He attended training in marketing Retractable Roof Production System, Skill Enhancement and Cold Chain Management. Starting his career in 1995 in a private sector, as a Manager, production-cum-marketing in 1995, he became Director in 1997 in Indo-Gene and Hybrid Pvt. Ltd., in the same year 1998. He joined as Horticulture Officer, Panipat, and rose to become Deputy Director (2004 to 2007), Jt. Director (2007-2011), Addl. Director Horticulture (2011-2014) and Director General (2011-2014 to till date). He has expertise in Horticulture Crops, Micro Irrigation and Water Development Techniques, horticulture training and education, horticulture policy, coordination, project programme Implementation, organic agriculture, post-harvest management, marketing, and IT governance. In his career spanning more than 21 years, he has contributed significantly for the horticulture development in the state of Haryana. He has launched Technology Mission on Horticulture and Established, Centre of Excellence for vegetable, fruits, bee-keeping and flower production. He has launched a new scheme on national vegetable initiative for urban clusters, National Mission on Medicinal Plants, Agri-business Consortium, Haryana, under his leadership for development of horticulture. He has published many reports and papers and developed MoU with various Department for the effective development of

horticulture in the state. He has visited Israel; Netherland, Germany, Switzerland, USA, Taiwan and Russia. His leadership is of par excellence and is a prime mover of development in horticulture in the state.

Address: Dr. Arjun Singh Saini, Horticulture Department, Directorate of Horticulture, UdhyanBhawan, Sec-21, Panchkula (Haryana); Phone : (0172)-2582322; Email: hortharyana@gmail.com

3.3 Dr. K.P. Singh (CF-285)



Prof. (Dr.) K.P. Singh, Vice Chancellor, CCS Haryana Agriculture University, Hisar, Haryana, was born on 1st June, 1968, graduated from Aligarh Muslim University in Chemistry (Biomembrances) and earned post doc from Cranfield University UK and NCI- NIH Frederick USA. After Master and Doctorate Degree, he started his career at Pant Nagar University. Served in various positions, as an academician and administrator. He has been professor, Coordinator, Head, Chairman and now the Vice-Chancellor of a very prestigious University CCSHAU, Hisar. He is also a Founder Vice Chancellor of MaharanaPratap Horticulture University, Karnal. He also served as

Director, Uttarakhand Council for Biotechnology, Govt. of Uttarakhand. He is providing the leadership, direction in academic areas, guiding the faculty and administration and monitor the programme of curriculum development. He is implementing policies and procedure related to academic programme. He has guided 2 Ph.D. and 35 M.Sc and he is currently, guiding 8 students for Ph.D. programme. He has been visiting Faculty, Cranfield University, UK, 2009 and NCI-NIH Fredrick, USA, 2014, NCI-NIH Fredrick, 2015, Stanford University, USA, 2015, Haward University, Washington, USA in 2017. His contribution in the field of agriculture, has earned him various awards. To name a few are, Young Scientist Award from UCOST (DST, UK) in 2007. He is associated with many Professional Societies, Society of India, Member of Governing Body of UK Centre and Research Centre, Chairman of ICAR Committee for doubling of farmers' income, Member-Haryana Kisan Ayog, Chairman- Board of Management, Maharana Pratap Hort. University, Karnal, Chairman- Haryana Netherland cooperation Committee, 2017, Indian Society of Agricultural Engineers, 2017, Vice President of Academy of Microscope Science & Technology. His main field of research are Biosensors, artificial intelligence, Nano biosensor, Nano-toxicity, Nano-medicine for targeted drug delivery, nano-fertilisers, renewable and bioenergy and bio-safety. He had many international assignments and has visited many countries. He has been a key person of international business relation in terms of signing MoU / Agreement / LOI with Cranfield University (UK); Tokyo University of Agriculture (Japan); International University of Japan, Michigan State University (USA); Washington State University (USA); University of Illinoi UC (USA); Kuwait Institute of Technology; Turkey; Wageningen University & Research (WUR), Netherland.

Address: Prof. (Dr.) K.P. Singh, Vice Chancellor, CCS Haryana Agriculture University, Hisar, Haryana
Tel:1662-231640; Mob:8295782950; Email:vchauhisar@gmail.com

1.4 Dr. V. Praveen Rao (CF 289)



Dr V. Praveen Rao, from rural area of in Karimnagar, Telangana State, recognising that the Water is the driving force of all nature, became passionate for efficient use of water and devoted his entire career in working for this precious gift of nature. His life long work in his career spanning 35 years is well acknowledged, as doyen of micro irrigation, in the state of Telangana, earlier, Andhra Pradesh. Starting his career as a Instructor in 1983, in ANGRAU, he has been a teacher, researcher, extension

agronomist, an international consultant, administrator, and now the founder Vice Chancellor of Professor JayashankarTelangana State Agricultural University (PJTSU), since, 2016. His leadership is a driving force in getting appreciable ranking of the university (12th) by ICAR in 2017 and within the top 100 Universities of India by NIRF, MHRD, 2018. His work on agro-knowledge management through digital knowledge material on 142 drip irrigated agri-horticultural crops has helped stakeholders. The website www.sugarcane.crops.com on sustainable drip irrigated sugarcane production, created by him, has benefited drip irrigated sugarcane growers in several countries. He has published, 140 research papers in peer reviewed national & international Journals, practical manuals, books, crop growing manuals, project documents (12) and DVD films. He has been invited internationally (13) and nationally (32) for delivering lead lectures. He is mentoring and inspiring many of his students who worked for their masters (11) and doctoral (11) programmes. His outstanding contributions has earned him many award, such as Life time Achievement Award (2015), NetAward, Israel (2006) & Leadership Award (2005) for promotion of microirrigation in India, Africa and SE Asia, Best Teacher Award, ANGRAU (1998) and MASHAV Fellowship, Israel (1995). He is member of several international national bodies. He is also member of the ICAR Governing Board. He continue to provide leadership in agriculture education research and development.

Address: Vice chancellor, PJTSAU, Rajendranagar, Hyderabad- 500030; Telangana. Mob: 9849029245, Email: velchalap@gmail.com

4.0 CHAI-Dr. R.S. Paroda Award

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. Dr. Gopal Lal (CF-256)



Dr. Gopal Lal, Director, NRCSS, Ajmer, born on 10th March, 1967, in Naugaung district of Rajasthan, Ajmer, earned his MSc, Horticulture, with Gold medal, and PhD from RAU, Bikaner, in 1992 and 1996, respectively. Starting his career at Nagaur, RAU, Bikaner, as Assistant Professor, in 1996, he joined at Pali, ICAR- CAZRI, in 2002, as Sr Scientist, then he became Professor at CAU, Imphal, in 2008. He joined ICAR-NRCSS as Principal Scientist, in 2008 and now the Director, since 2016. In the career spanning over 21 years, he has significantly contributed to research, education and technology

dissemination and is credited to have developed 25 technologies in fruit crops and 35 technologies in seed spices. Agri- horti cropping systems, developed by him, having integration of arid fruits, vegetables, pulses, henna and seed spices at RRS (CAZRI), Pali and NRCSS, Ajmer, are well appreciated for enhancing resource use efficiency and farmers' income. He has guided 15 students for M. Sc. (Ag.) Horticulture and 01 for Ph. D. (Horticulture) degree. He has published 104 research papers, 125 popular articles, 49 book chapters, 20 bulletins/ manuals, 04 authored and 11 edited books. He has organised 15 national, state and district level seminars, 40 training programmes, 12 farmers' fairs and more than 1200 front line demonstrations. As a President, Vice President and secretary, Dr. GopalLal has played an important role in various scientific activities of Indian Society of Seed Spices, Ajmer. He is Fellow of ISSS, and is contributing for the development, as member of various committees. He has visited Texas and Florida, USA. As a horticulture expert, he also contributed in planning and policy formulation for agriculture in

the state of Rajasthan.

Address: Director, ICAR-NRCSS, Beawar Road, Tabiji, Ajmer 305206, Rajasthan India, Phone: 0145-2684401,2684402(O) 91-145-2684417(Fax) Email:nrcss.director@gmail.com, glal67@yahoo.co.in Mobile 09414609649 Website: www.nrcss.res.in, , Res. B-87, Chandarvardai Nagar, Ajmer (Rajasthan)

5.0 CHAI-Dr. 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 Dr. Manish Dutt Ojha (CF-237)



Dr. Manish Dutt Ojha was born on 1st May, 1974 in Pratapgarh district, Uttar Pradesh. He graduated in Agriculture from T.D. College, Jaunpur in the year 1995 and completed M.Sc. (Horticulture) with specialisation in Vegetable science from NDU&T, Kumarganj, Faizabad in 1998. He did his Ph. D. in the year 2004 from Purvanchal University, Jaunpur, in horticulture. Dr. Ojha started his career from April, 2005 as Assistant Director (Horticulture) at National Horticulture Research and Development Foundation (NHRDF) and served at Uttar Pradesh, Haryana and Andhra Pradesh for

strengthening of horticulture sector till September, 2011. Presently he is working as an Associate Professor -cum- senior scientist (Horticulture) since 2011 at Nalanda College of Horticulture, Noorsarai, Nalanda under umbrella of Bihar Agriculture University, Sabour, Bhagalpur. He has published around 30 research papers in journals of repute and participated in more than 50 National and International conferences. Dr. Ojha has published several book chapters, popular articles, technical bulletins and manuals on different vegetables and horticultural crops. He also released number of technologies on Onion, Garlic and has conducted several training programmes on horticultural crops. He is member and life member of more than ten National and International societies. Dr. Ojha is the recipient of a prestigious "Eminent Scientist Award" for the year 2014 conferred by the SamagraVikas Welfare Society, Lucknow. He also got CHAI fellow award in 2017.

Address: Dr. M.D. Ojha, Associate Prof.-cum-Sr. Scientist, Nalanda College of Horticulture , Noorsarai, Nalanda, Bihar-803113; Mob : 08986922541; 917766076112. Email:drmdojha@gmail.com

6.0 CHAI-Ram Nandan Babu Award

This award recognizes 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 of the award.

6.1. Shri Dinesh Kumar (CF-269)

Shri Dinesh Kumar, engaged in innovative horticultural production using modern technique since 1992. Born at Sakra block in Muzaffarpur district in Bihar, Sri Dinesh

kumar is a source of motivation to agriculturists and farmers of his area. His knowledge is being utilised by 19,000 farmers directly/indirectly, who consult him for new techniques and experimental results. His major area of interest is experimenting and applying modern techniques in cultivation of cauliflower, tomato brinjal, bitter gourd, cucumber and pointed gourd and also in organic farming of ginger and *arhar*. Sri Kumar has attended several training programmes including a training on “Organic Farming” at Thailand in 2001 and a training on “Agricultural Implements and Marketing” in Japan in 2004. Reliance fresh and other farm outlets sell his produce. He is member of different organisations including National Food Security Mission, local farmer’s production organisation and Kisan club. He is recipient of UdayanRatan Award from ASM Foundation and recognition from IARI.

Address: Shri Dinesh Kumar, Vill.+Po. Machhi, Block: Sakra, District: Muzaffarpur, Bihar- 843105 Mob.: 9430865973, 7739590621, email. dinesh0130@gmail.com

7.0 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.



7.1 Dr. Anil Kumar Singh (CF-026)

Dr. Anil Kumar Singh born on 23rd March, 1960 in Jaunpur (U.P.). Dr. Singh obtained his B.Sc. (Agriculture) degree in 1982, M.Sc. (Horticulture) degree in 1984 from UdaiPratap College, Varanasi and Ph.D. degree from Kanpur University, Kanpur (U.P.). He started his carrier as Senior Technical Assistant at Horticultural Research Station, Birauli in 1987 and became Assistant Professor in 2007. Presently, he is working as Asstt. Professor (Horticulture) at Rajendra Agricultural University, Pusa (Samastipur), Bihar. Dr. Singh is a researcher, teacher and extension scientist of par excellence which is evident from the work done by him in shouldering the responsibility at RAU, Pusa. His work on protected cultivation of vegetables and flowers has given insight for adoption of the system by the farmers. He has published 12 research papers, 2 booklets, 32 popular articles and 2 training manuals. Dr Singh also developed a good number of technologies during his 26 years long career in the field of horticulture.

Address: Assistant Professor, Horticulture & PIAICRP Floriculture, RAU, PusaSamastipur, Bihar. Mob. 09431898889, 07739218128, Email: aksinghfloriculture@gmail.com.

8.0 CHAI Dr. D.P. Ray Best Dissertation Award

This award recognizes the research of the student at Ph.D. level by conferring Dr. D. P. 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 will be given once in two years. The awardees’ receives the certificate, plaque of honour and free subscription of Journal – International Journal of Innovative Horticulture for the year.

NFS

9.0 Best Paper Award

This award encourages publication of high quality paper in International Journal of Innovative

Horticulture. The committee examines the paper published in preceding year of award, the published original article is recommended for Conferment of award. The recommendations of committee shall be put for approval to Board of Director /The Founder Chairman/Board of Director. The decision of the Founder and Chairman shall be final. 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.

No nomination received

10.0 CHAI-Life Time Recognition Award

This award recognizes 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.

10.1. Dr. Bir Pal Singh (CF-001)



Dr. Bir Pal Singh was born on 1st July 1953 in a farmer's family in Bulandshahar district of Uttar Pradesh. He obtained his B.Sc. in biology in 1974 and M.Sc. and Ph.D. in Plant Pathology in 1976 and 1986, respectively, from Aligarh Muslim University. Starting his career as a Scientist in ICAR in 1977 from Central Potato Research Institute Campus, Modipuram and later became Joint Director of CPRIC in 2000 and Director, Central Potato Research Institute, Shimla since during 2010 to 2016. Dr. Singh has over 35 years of research experience as Plant Pathologist. Notable amongst his contribution in the field of Plant Pathology includes:

establishment of sexuality in Indian isolates of *Phytophthora infestans*, development of late blight forecasting models and decision support system for its management, and development and release of 4 late blight resistant varieties. His other scientific achievements include development of aeroponic system for nucleus seed production and dipstick assay for detection of viral diseases at field level. As a Pathologist, he has also contributed towards the selection and release of nine more potato varieties having various attributes including late blight resistance. Dr. Singh has published 167 research papers, 15 technical bulletins, 10 books and 35 book chapters/manuals. He has also guided eight Ph. D. students. In recognition of his contributions, He has been bestowed with several awards, including Hari Om Ashram Trust Award, ICAR Team Research Award, LC Sikka Endowment Award, S Ramanujam Award and IPA KaushalyaSikka Award. He has served at various national and international bodies that include, Member steering Committee, Global Initiative on Late Blight (GILB); Convener, Global Potato Conference 2008; Member Secretary, Global Conference on Potato 1999 and EC Member, World Potato Congress. For his pioneering work in the field of potato late blight, he was awarded Fellowship of Indian Potato Association and Indian Phytopathological Society. Currently he is providing, based on his experience, in innovative technology for potato seedlings as Sr. Advisor, Jain Irrigation Systems Ltd., Jalgaon, Maharashtra.

Address: Office: Ex-Director, Central Potato Research Institute, Shimla 171 001 (HP), Resi.: 8140, Arocoh Golf Ville, Tower 10, G.H.T. Crossings Republik, Ghaziabad., Mob.: 09882702000, Email: birpals53@gmail.com

11.0 CHAI-Appreciation Award

This award recognizes 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 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 the period of two years, from the date of conferment of award.

11.1 Dr. Vishal Nath (CF-022)



Prof. (Dr.) Vishal Nath, Born on 1st December, 1966 at Harigaon in Basti District, Uttar Pradesh,, earned his masters in horticulture from NDUAT Faizabad. Starting his career as a Scientist at CIAH, Bikaner, in 1993, he has served in various capacities, Sr Scientist, CHES, Ranchi, Professor of horticulture, BAU, Ranchi, principal Scientist and Head, CHES, Bhubaneswar and, now he is serving as Director NRC on Litchi, Muzaffarpur, for the last seven years. In his career spanning 24 years he has significantly contributed to horticulture research and development. He is credited to have developed repository of germplasm in many fruits and vegetables. He has been associated in

identification and releases of more the 11 varieties in fruits and vegetables. Recently he identified 4 varieties of litchi, suitable for growing in Bihar and Jharkhand. He developed multi-tire fruit crop based cropping system and *in situ* water harvesting techniques for mango and guava in rain fed areas. He also developed *in situ* budding/grafting techniques in fruit crop for better adoption in rain fed conditions. He has successfully demonstrated an intensification in mango and litchi through plant architecture and canopy management. Dr. Vishal Nath has published many books and more than 100 articles in leading journals. He has earned many projects with financial assistance for the centre including project from FAO and also BARC, which has brought a visibility and responsiveness to the NRCL. Contribution of DrVishalNath in institution building and taking technology to the farmers is well recognized. Dr. Nath is member and chairman in many important committee including Institute Management Committees, Programme Advisory Committees, Steering Committees, Scientific Advisory Committees, in ICAR, Universities and Department of Science and Technology. He also had training for Governance and management in USA and litchi production in Thailand. He is widely travelled in India, and is credited to have demonstrated success for litchi production in South India, which provides opportunity to harvest, out of season.

Address: Director, NRC on Litchi, Mushahari, Muzaffarpur, Bihar-8420002; Email:director@nrclitchi.org

11.2 Shri Sudhanshu Kumar (Progressive Farmer) (CF-144)



Shri Sudhanshu Kumar, born in Nayanagar, SamastipurDist, Bihar, on 16th June, 1962, completed his schooling from St. Paul's School, Darjeeling, West Bengal and earned B.A and M.A degrees from Hansrsaj College, Delhi University. Armed with qualifications, he would have got white color job, but he preferred to go to village to do farming on his own farm. Since, 1988 he is engaged in farming, which ha as earned him recognition for his work in litchi and mango, and also in field crops like maize and wheat. He has changed the way in which litchi and mango orchards were managed and installed a drip and sprinkler system. He brought about a system of

managing micro climate in the orchards, through the use of sprinkler in addition to drip irrigation. This

has enhanced the yield of the orchard in the way of fruit setting, seed pulp ratio and weight of the fruit. He started the use of sprinklers in field crops, to cut down on expense of irrigation. Now the farmers of region follow him. His efforts are to save water, energy, physical energy and produce more with less land, water and energy. He has also innovated for linking farmers with market. He has visited many countries including USA. He is a resource person for NRC Litchi, Muzaffarpur and many other organizations. He worked at California University, Davis, under Cochran Fellowship of US Department of Agriculture (USDA) for augmented marketing systems in agriculture. MrSudhansu was also among the young farmers deputed by ICAR to Malaysia under the ASEAN Programme, to experience and share the knowledge in the developments. His work is published in leading news papers and magazines. He is recipient of many National awards, notable one are: Kisan Bhushan award 2007 by Government of Bihar. Udyan Ratan , 2009, by ASM Foundation, New Delhi, Jagjivan Ram Kisan Purushkar, 2009 by ICAR. Certificate of appreciation from ICAR, Role Model Award – 2011, Mahindra Samridh India Agri Awards 2014, RamnandanBabu award, 2015 by the CHAI, New Delhi for promotion of technology. He has been nominated to various committees as farmer's representative. His work and innovations in litchi production and marketing is highly appreciable and is well recognised.

Address : 402, Rameshwaram Apartment, Miss Mandal Compound, East Boring Canal Road, Patna – 800001, Resi. Address:, Vill& PO Nayanagar, Dist. Samastipur, Bihar 848208, Email: sudhanshu5506@gmail.com (Awarded in Litchi conference)

11.3 Dr. Usha Singh (CF-283)



Dr (Mrs) Usha Singh, M.Sc. and Ph.D., Professor and Head, Department of Food & Nutrition, College of Home Science, DRPCA, Pusa, Samastipur (Bihar), born in 1965. Started her career as Assistant Prof cum Jr Scientist in April, 1989 and was selected as Associate Prof cum Sr Scientist in July, 1998 and subsequently, she became University Professor cum Chief Scientist in July, 2006. She has guided 7 M.Sc. and 1 Ph.D. student. Her research interest has been on the development of diversified food products to provide nutrition security to the community. She has developed 160 products from Quality Protein Maize, of which 12 products have been commercialised. She is credited to have handled 14 externally funded research projects. She has been associated with programmes of different national and international organisation, such as UNICEF, CIMMYT, BISA, IIMR, World Bank etc. Her contribution has been recognised conferring many awards, to name the few are: Common Wealth Fellowship, Best Teacher Award, ICAR, Personal Promotion Awards for research project and Certificate of Merit Award, RAU. She is widely travelled and has visited, Bangladesh, Bhutan, China, Netherlands, Sri Lanka and Thailand. She has been lead speaker in national and international conferences and is also a consultant in India and abroad, in the field of food product development. She contributed many research papers, key note lectures, books, booklets etc. Currently, she is engaged in various programmes of UNICEF for finding a way for eradication of malnutrition through local agriculture solution.

Address: Dept. of Food & Nutrition, College of Community Science, DrRajendraPrasad Central AgriculturalUniversity, PUSA-848125 (Bihar), India, Phone 91-6274-240256(o)/240255 (Fax).(M) 9431897515
Email: usha_pusa@yahoo.co.in

11.4 Dr. Ranjan K. Srivastava (CF-262)



Dr. Ranjan K. Srivastava is currently serving as Professor & Head of Horticulture Department at the G.B. Pant University of Agriculture & Technology, Pantnagar, India. DrSrivastava earned B.Sc. Forestry degree from Haryana Agricultural University, Hisar in 1991, M.Sc. (Ag) Horticulture from G.B. Pant University of Agriculture & Technology, Pantnagar in 1994 and Ph.D. from Punjab Agricultural University, Ludhiana in 1997. He served as Scientist in Plant Tissue Culture Laboratory, Patiala for a year before joining Pantnagar University as Assistant Professor. In his career spanning 18 years, he has contributed significantly to research and teaching, He has published 72 research papers, 6 books and 13 chapters. He has guided 16 M.Sc. and 10 Ph.D. students. DrSrivastava has been actively involved in research, teaching, extension and developmental work in the University including establishment of Model Floriculture centre, in 30 acre, in the University. DrSrivastava has visited Singapore, Malaysia, Sri Lanka, The Netherlands, Canada and USA for advanced trainings and participation in conferences and exposure visits. He has been Associate Editor and then Executive Editor of International Journal of Basic and Applied Agricultural Research (formerly Pantnagar Journal of Research) for over a decade and Member Editorial Board of Progressive Horticulture. He has been conferred Fellow, of Confederation of Horticulture Associations of India and Fellow, Hill Horticulture Development Society besides Member Expert, National Horticulture Board State Finance Committee. He has been instrumental in course curriculum development of Horticulture (Floriculture and Landscaping) at Undergraduate, Master's and Doctoral levels.

Address: Dr. Ranjan Srivastava, Head, College of Agriculture, G.B. Pant University of Agriculture & Technology, Pantnagar-263145 (Uttarakhand); Mob:09412039911; Email:ranjansrivastava25@gmail.com

11.5 Mr. Gyan Chand Agarwal (CF-113)



Mr. Gyan Chand Agarwal born on 6th April, 1954 in village Qutub Bagh Delhi, graduated from Delhi University and took up business as his choice of profession. He is the Chairman of Rajdeep Agri Product Pvt. Ltd., an ISO 9001:2008 certified company. Mr. Gyan Chand Agarwal has been successful in transferring the idea for promoting agriculture/ horticulture through effective implementation of programme in the green house technology and plant supporting devices. He has provided leadership in protected cultivation by designing, developing and implementing protected cultivation. He is credited to have given a new dimension to greenhouse technology, and the company has constructed over 3000 green houses, not only in India but also in neighbouring countries. He has also diversified many horticultural based activities, which are needed for development of environment control green house which has not only been used for research but now moved to commercial adoption, where his company has contributed significantly. As a social worker, he is involved as Chairman and Co-chairman and Secretary in many of social organisations like hospitals, colleges and educational societies. He is a recipient of several awards, to include the few are, Ratna Award, Delhi, Ratna Award, SamajGyan, UdyanRatna Award and Royal Award of excellence. His goal of life is to turn the dream into reality. He has visited more than 40 countries to learn and share his knowledge. Mr Agarwal is providing a dynamic leadership to horticultural development through greenhouse technologies and associated supports.

Address: B-159, Prashant Vihar, Rohini-85, Tel:(011)-27868881/4904299; Email: rajdeepagri@yahoo.com, Mobile: 9810058059

11.6 Dr. Anil Kumar: CF-0026



Dr. Anil Kumar, born on 26th June, 1962, graduated from University of Kanpur in the year 1980, and completed his M.Sc. in Biochemistry from GBPUA&T, Pantnagar in the year 1984 and PhD in Biochemistry from University of Rajasthan, Jaipur in 1990. He started his career as Demonstrator at MLB Medical College, Jhansi before joining as Assistant Professor in the Department of Molecular Biology and Genetic Engineering, G.B. Pant University of Agriculture and Technology. He is presently working as Professor & Head in the department. Actively involved in teaching and research since last 25 years. He has successfully run several competitive projects

with the financial assistance of ICAR, DRDO, UPDASP, DBT, DST and others. He is Member and Chairman in several selection, scientific and other important academic committees and also members of various professional bodies. Besides organizing the State level 4th Uttarakhand Science Congress, he has also organized several national training workshops on biosafety and bioinformatics as part of capacity building under GEF-World Bank and SUB-DIC in Bioinformatics supported by MOEF and DBT, respectively. He is widely travelled in India and abroad. He has guided 37 students for their master's and doctoral degree program in Molecular Biology and Biotechnology. He is recipient of Young Scientist Award (DST, 1998), Regional Service Award (IFCC and APACC, 1993), Financial Award (IFCC, 1990), International Bursary Award (UK, 1996), Food and Agricultural Organization Fellowship Award under ICAR-AHRD scheme from FAO (Rome, 2000-2001). He is a Member of National Academy of Sciences. Awarded the Shiksha Rattan and Scientist of Excellence Award. He has Published 110 research papers in reputed national and international journals, 50 popular articles and book chapters and 10 books and manuals.

Address: Prof. & Head, Department of Molecular Biology & Genetic Engineering, College of Basic Sciences and Humanities, G.B. Pant University of Agriculture & Technology, Pantnagar

12.0 Fellows of CHAI

Fellow CHAI recognises the commitment of an individuals for the Furtherance of Agriculture, with special reference to horticultural system

12.1 Dr. Gopal Kumar (CF-263)



Dr. Gopal Kumar, born in Lakhisarai district of Bihar, completed his B.Sc. (Ag.) degree from RAU, Pusa, Bihar and Masters and Ph. D. Degrees in Agricultural Physics from IARI, New Delhi. He started his career as Scientist (Soil Physics and SWC) at ICAR-Indian Institute of Soil and Water Conservation and served at Research Centre-Udhagamandalam, Tamilnadu and Research Centre- Valsad, Gujarat for about 9 years. He worked as Senior Scientist (Soils) at ICAR-NRC for Litchi, Muzaffarpur for, 18 years and presently, he is working as senior scientist at ICAR-IISWC, Dehradun.

His contribution includes design and development of 'upward flow filter' suitable for plain agricultural field and 'two component filter' for high slope area and channel runoff, design and development of automatic runoff sampler, advance tools based techniques for watershed planning and quick DPR preparation, new methods of remote sensing based watershed impact evaluation, delineation and characterisation of Mahi ravine in Gujarat using remote sensing, GIS and free resources and delineation and preparation of taluka-wise ravine maps of Gujarat, Rajasthan, Uttar Pradesh and Madhya Pradesh. As team member, his significant contribution includes development of bamboo and Sapota based intervention for gully head, bank and bed stabilisation and productive utilization of ravines, development of model watershed under NWDPRRA including ravine horticulture as concept.

He also prepared soil health card for Litchi growers in Bihar for integrated soil health management for quality Litchi production. He has authored 42 research papers published in peer reviewed journals, 5 books, 10 book chapters, 15-popular articles, 5-leaflets and 2- bulletins. He is Incharge- Central Laboratory, Member Secretary- RAC, Joint Secretary- Indian Association of Soil and Water Conservationists.

Address: Senior Scientist (Soils), Division: Soil Science & Agronomy, ICAR-Indian Institute of Soil and Water Conservation, 218, Kaulagarh Road, Dehradun, Uttarakhand-248195, Mobile No.-9409545159, 7033401808, Office Phone-0135-2757218, Office fax -0135-2754213; Email: gkcswrcti@gmail.com

12.2 Dr. A.V. Barad, College of Agriculture, JAU, Junagadh (CF-264)



Dr. A.V. Barad, worked as Principal, College of Agriculture, JAU, Junagadh, graduated from Gujarat Agriculture University, Anand with distinction & Gold Medal, earned his Masters (M.Sc. 'Floriculture & Landscape Gardening) from PAU and Ph.D. (Hort.) from GAU, Navsari. He started his service as Agriculture Officer and served in various capacities, as Asstt. Professor, Professor and Head. He has been taking major courses in Horticulture and has guided 30 M.Sc. and 9 Ph.D. students. Besides his academic contributions significantly contributed for growth of horticulture and released 2 custard apple varieties & more than 12 technologies. He developed 9 UG curriculum

& 5 PG curriculum courses. He has published 73 research papers in peer reviewed journals, 12 books and more than 33 papers / abstracts in proceeding of conferences. He is member of Academic Council, Extension Council, PG, Study Board, Executive Body of AAU and is president of Gujarat Association for Agriculture. His contributions earned him Sardar Patel Research Award for innovative research. He is Fellow of Indian Society of Ornamental Horticulture. As an organiser, he is involved in organisation of this National Conference on Technological Changes and Innovations in Agriculture for Enhancing Farmers' Income.

Address: Dean, Faculty of Agriculture, JAU, Junagadh-362001 (Gujarat), Phone: 91-2876221053; Mob: 9879104667 Email: avbarad@jau.in avbarad55@gmail.com

12.3 Mr. D.R.K. Rao (CF-265)



Mr. D.R.K. Rao, born on 10th August, 1957 at Guntur, Andhra Pradesh, had his high schooling and graduation from Guntur, Andhra Pradesh. He had Master's Degree in English literature from Andhra University and PG Diploma in Journalism from Bhartiya Vidya Bhavan, PG Diploma in Travel & Tourism Management, Annamalai University. Starting his career, as Asstt. in the Ministry of Agriculture in 1983, worked as Section Officer (Horticulture) and Under Secretary in National Horticulture Mission and Micro Irrigation, and also dealt with Coconut Development Board, National Horticulture Board and has 15 years experiences in Horticulture Sector. He became Deputy

Secretary in MHRD dealing with 18 Central Universities Administration like Delhi University for 4 years. During his career he has 36 years experience. Dr. Rao has significantly worked for the development of horticulture in various capacities, monitoring various schemes and Directorate and Boards. He has been closely associated with the Task Force Report on Micro Irrigation constituted by Shri Chandra Babu Naidu, CM of Andhra Pradesh and also NHM alongwith Dr H P Singh, then Hort. Commissioner. Thereafter, he has efficiently assisted and monitored NHM and MI which has broad impact on the

development of Horticulture and of doubling production. He has wide experience in the promotion of horticulture at grass root level and has visited 17 countries. Currently, he is promoting horticulture as his passion.

Address: 49-D, Pocket-A, Mayur Vihar, Phase-II, Delhi-110091, Mob No.:09868543916; Tel No.011-22771997; Email: dhurjati189@gmail.com

12.4 Dr. Y.S.R. Horticultural (Institutional Member) (CF-266)



Dr YSR Horticultural University, established in 2007, at Venkataramannagudem, near Tadepalligudem in West Godavari District is committed for increasing and sustaining the productivity and commercialisation of horticulture in the State with mandates for human resource development through education, creation of new knowledge through research and dissemination of proven technologies. The University is committed to develop the need based manpower and technologies to address the challenges for enabling horticultural farmers to make horticulture as the most remunerative enterprise. The University has 4 Colleges, 4 Polytechnics, 17 Research Stations and 4 Krishi Vigyan Kendras, to support education, research and extension education.

Address: Dr YSRHU, Venkataramannagudem, Tadepalligudam, West Godavari, Andhra Pradesh.

12.5 Dr. Chiranjivi Chaudhary (CF-267)



The details are given in Para 3.0 Honorary Fellow, CHAI

Address: Vice-Chancellor (FAC) & Commissioner of Horticulture & Ex-Officio Secretary to Government, Agriculture and Cooperation (Horti.& Seri.) Department, Dr.Y.S.R Horticultural University, Post Box # 7, Venkataramannagudem-534 101, West Godavari District, Andhra Pradesh; Email: vcaphu@gmail.com, vc@drysru.edu.in

12.6 Dr. B. Srinivasulu (CF-268)



Dr. B. Srinivasulu, was born on 5th January, 1964, earned his post-graduation, M.Sc. (Ag.) (Horti.) from S.V. Agriculture College, Tirupati and Ph.D in Horticulture from College of Agriculture, Rajendranagar, ANGRAU. He is currently the Senior Scientist (Horticulture) & Head, Horticultural Research Station, Anantapuramu, Dr. Y.S.R. Horticultural University. He started his career as Horticulture Officer in 1992 in the Department of Horticulture, Government of Andhra Pradesh and served farmers for 5 ½ years. He is instrumental in introducing drip irrigation, tissue culture banana cultivation and papaya cultivation and area expansion programmes in Kadapa district.

Subsequently, he joined ANGRAU as Assistant Professor (Horticulture) at Agricultural Research Station, Ambajipeta, East Godavari district, A.P. in 1998. Contributed in evolving Coconut varieties viz., Gautami Ganga, Kalpa Prathibha and Kerabastar. Handled NATP project as Principal Investigator of Cooperating Centre and Developed profitable coconut based cropping system model. He received Best Extension Scientist Award, 2007 from ANGRAU for his contributions. He developed fertigation schedules,

established Tissue Culture Laboratory, Bio-Control Laboratory and Model Nursery with ICAR & SHM funds. Identified coloured Baneshan clone and evaluated new mango hybrids. Guided one Ph.D and five M.Sc. students as Chairman of the Advisory Committee. Served as Member, Academic Council and Board of Faculty for UG in Dr.YSRHU. He is handling research projects on pomegranate, custard apple, tamarind, aonla and ber, and has developed tamarind variety-ThettuAmalika. Received RytuNestham Award during 2016 and “Distinguished Scientist Award”, 2017. He attended 27 National and International seminars and workshops, published 34 research articles, 142 popular articles, 145 farmer training programmes, 42 radio talks and 22 TV programmes.

Address: B. Srinivasulu, Senior Scientist (Horticulture) & Head, Horticultural Research Station, DCMS Buildings, Kamalanagar, Anantapuramu – 515 001; Mobile: 9849732861; Office: 08554-201388; Email: srinivasulubvr@gmail.com; headhrs_anantapur@drysru.edu.in



12.7 Dinesh Kumar (CF-269)

The details are furnished under para 6.0.

Address: Shri Dinesh Kumar, Vill.+Po. Machhi, Block: Sakra, District: Muzaffarpur, Bihar- 843105
Mob.: 9430865973, 7739590621, Email. dinesh0130@gmail.com

12.8 Manda Ram Mohan Chowdhary, Anantpur (CF-270)



Sri Manda Ram Mohan Chowdhary was born on 3rd Sept, 1967. He is a progressive farmer with innovative ideas. He first started cultivating tissue culture banana cv. *Grand Naine* with drip irrigation during 1996-97 in Anantapuramu district and encouraged many farmers to take up this crop. He is the pioneer in cultivation of melons (watermelon and musk melon) with mulch and drip in Rayalaseema districts of Andhra Pradesh. He is one of the best pomegranate growers in Andhra Pradesh cultivating Mridula variety during the year, 2000. He cultivated variety of crops viz., Curry leaf, Sweet orange, Jasmine, Chrysanthemum, Groundnut, Coleus and SRI Rice. Received Udyan Ratna Award, 2007 for his best farming practices.

Address: Ganganapalli (village), Narapala (mandal), Anantapuramu district – 515 425, Andhra Pradesh; Mobile No. 9440221298

12.9. Dr. S.S. Meena (CF-271)



Dr. S.S. Meena was born on 12th October, 1975 in a farmer's family in Bharatpur, Rajasthan, had his graduation and post-graduation in Horticulture from Raj. Agri. Univ., Bikaner in 1998 and Ph.D in Horticulture from MPUA&T, Udaipur (Raj.) in 2005. He started his career as Scientist (Hort.-Veg. Science) in ICAR in 1999 at ICAR-Central Institute of Arid Horticulture, Bikaner (Raj.), worked there for 5 years and then moved to ICAR-NRCSS, Ajmer, 2005. Presently, he is Principal Scientist (Hort.-Veg. Science) in ICAR-National Research Centre on Seed Spices, Ajmer (Raj.). Dr. S.S. Meena has been instrumental for infrastructure development at newly established ICAR-NRC Seed Spices. He has specialization in plant genetic resource management and production system research in

horticultural crops with seed spices. He contributed significantly in the area of collection and evaluation germplasm of seed spices crops. He is working on genetic improvement of seed spices through conventional and biotechnological approaches. As a researcher he developed 5 high yielding varieties of seed spice crops namely AA-93, AN-20, Afg-3, Afg-4 and Afg-5. He has contributed in genetic resource management of ajwain and nigella, and identified several unique genotypes of seed spices. He has developed arid fruits and vegetables cropping system with seed spices. As a Major Advisor, he guided 12 M.Sc. (Hort.) students. He was awarded Best Scientist Award 2009, NRCSS, Ajmer, J.S. Purthi Award-2010, Young Scientist Award-2015 by Society for Agriculture and Arid Ecology Research ICAR-CIAH, Bikaner. He has also worked as the Founder Chief Editor of Internal Journal of Seed Spices during 2009-2012. He is Fellow of Indian Society of Seed Spices. He is Vice-President of Indian Society of Seed Spices, Ajmer, India. Authored more than 80 research papers, 50 book chapters, 75 articles, 8 books, 14 manuals/bulletins and 12 Extension folders.

Address: Principal Scientist (Hort.Veg.Science), ICAR-National Research Centre on Seed Spices, Ajmer (Raj.) 305206, India. Mob: 9414290547, Email:ssmnrccs5@yahoo.com

12.10 Dr. Arvind Kumar Verma (CF-272)

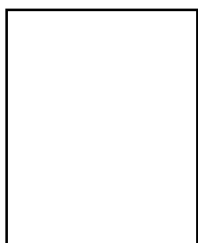


Dr. Arvind Kumar Verma, born on 8th December, 1983 in Basani (Dallupur) village in Varanasi, Uttar Pradesh. He received B.Sc. (Ag.) degree in 2006 from UdaiPratap Autonomous College, Varanasi. He completed M.Sc. and Ph.D. degree in Horticulture Science from prestigious institute ICAR- Indian Agricultural Research Institute, New Delhi in 2009 and 2013, respectively. Joined ARS in January 1, 2014 and serving as a Scientist (Spices, Plantation, Medicinal and Aromatic Plants) at ICAR- National Research Centre on Seed Spices, Ajmer, Rajasthan. He has in depth knowledge of horticulture including spices plantation, medicinal and aromatic plants. Presently,

he is working on genetic improvement of seed spices through conventional and biotechnological approaches. He has developed several mutant lines in fennel crop. He is also looking after the development of DUS Test guidelines for minor seed spices. He is involved in organization of several training programmes/workshop/farmer's fair etc. He is credited to have published more than 15 research papers in reputed journals and several training manuals, popular articles and book chapters.

Address: Scientist, ICAR- National Research Centre on Seed Spices, Tabiji, Ajmer-305206 (Rajasthan) Tel. 0145-2684444/2684417, Mob. 09636564913, Email: arvindhort@gmail.com

12.11 Dr. Ram Niwas Singh (CF-273)



Dr. Ram Niwas Singh born in a Village Babhangama, Bagusarai (Bihar) on 11th August 1962. He did M.Sc. in 1992 and Ph.D. in 1995 in Plant pathology from Rajendra Agricultural University, Pusa, Samastipur, Bihar. He joined as subject matter specialist, plant pathology at KrishiVigyan Kendra Sheikhpura, under Rajendra Agricultural University, Pusa. Presently he is working as programme Co-ordinator KVK, Sheohar Bihar. He has more than 45 publications which include research papers, popular articles, technical bulletins, book chapters, folders and one book to his credit. He is the member of several reputed societies devoted in upliftment of agriculture. Dr.

Singh has worked on integrated management of ring spot virus and root rot diseases in papaya and promoted its cultivation at large scale in different districts of Bihar. He has also worked on management

of gummosis disease of mango and transferred this technology at very large scale among the farmers of different districts of Bihar.

Address: Programme Co-ordinator, Krishi Vigyan Kendra, Sheohar, Infront of Sheohar Block, District-Sheohar (Bihar)-843329; 9631945519, Email:chinkukumarbgs@gmail.com

12.12 Dr. Ponnuchamy Manivel (CF-274)



Dr. Ponnuchamy Manivel, born on 13th May, 1965 at Mangammalpatti village (Madurai district, TN), obtained his graduation, post graduation and doctoral degree from TNAU, Coimbatore. He is a plant breeder and along with his team at CPRI, Shimla, has developed four potato varieties viz., Kufri Frysona, Kufri Himsona, the Kufri Chipsona-3 and Kufri Chipsoa-4. He has developed three varieties of isabgol (Vallabh Isabgol-1, Vallabh Isabgol-2 and Vallabh Isabgol-3) and one variety of ashwagandha (AWS-1). Further, he was also associated in development of two high yielding groundnut varieties, viz., Girnar-2 and Girnar-3 while working at NRCG, Junagadh, Gujarat. Another

milestone in the research contribution of Dr. Manivel is the development and release of the first castor hybrid, TMVCH-1 for Tamil Nadu. Dr. P. Manivel has also been associated in development and registration of 21 valuable genetic stock/germplasm/mutants with NBPGR, New Delhi. He has been awarded the J.P.A. Gold medal for the best research paper for two times and The PEARL best scientist award. Attended many national and international conferences and symposium as delegate and resource person and bagged many best poster awards. He has visited countries like USA, Germany, Singapore, Malaysia and Philippines. He is life member of more than 15 scientific societies and academies, besides fellow of three academies and societies. He has 250 publications to his credit.

Address: Director (Acting), ICAR-DMAPR, Boariavi, Anand 387310, Mob No. 09429543209, Email: srinivasulubvr@gmail.com

12.13 Horticulture Department, Haryana (CF-275)



Horticulture Department deals with the production and maintenance of fruits, vegetables, and flowers, spices, mushroom, medicinal and aromatic plants. The cultivation of horticulture crops is highly specialized, technical and remunerative venture as compared to traditional crops being grown by the farmers. Apart from this, majority of Horticulture crops, being perishable in nature, requires systematic planning for their development. Horticulture development has assumed greater importance in recent years since this sector has been identified as remunerative for diversification of land use which provides increased employment opportunities, better return per unit area besides filling the nutritional gaps. Farmers in Haryana have also started taking up horticulture crops as a separate viable economic activity. With a view to give a boost to the growth of horticulture in the state, Haryana Government created a separate Department of Horticulture in 1990-91, which was previously a part of Agriculture Department in Haryana.

Address : Horticulture Department, UdhyanBhawan, Sector-21, Panchkula-134116, Email:hortharyana@gmail.com, horticulture@hry.nic.in; Phone No. 0172-2582322; EPBAX No.0172-2582589,2582590; Fax No.0172-2582595



12.14 Dr. Arjun Singh Saini (CF-276)

The details are given in para 3.2.

Address : Horticulture Department, Directorate of Horticulture, Haryana, UdhyanBhawan, Sector-21, Panchkula-134116, 0172-2582322, Email:hortharyana@gmail.com



12.15 Girja Shankar Tiwari (CF-277)

Girja Shankar Tiwari, born on 7th May, 1988 at Pantnagar, Uttarakhand, is a Ph.D Scholar in Soil Science. He has completed his graduation and masters from SHUATS, Allahabad with high academic records. Presently, perusing his Ph.D. Degree (Soil Science) at GBPUAT, Pantnagar. Specialization in Soil Science and Agricultural Chemistry with special focus on investigating role of bio-agents responsible for increasing the yield of legumes. He has published number of papers in high rated journals. He is recipient of different awards and fellowships of prestigious societies of India. He is affiliated with various professional societies in various capacities.

Address: Ph.D. Scholar, Department of Soil Science, GBPUAT, Pantnagar, Uttarakhand, Phone: 07351958963 e-mail: tiwarigirjashanker103@gmail.com

12.16 Ms. Swapnil Pandey (CF-278)



Ms. Swapnil Pandey, born on 11th June, 1991 at Harigaon in Basti District, Uttar Pradesh, is a Ph.D. Scholar in Horticulture. She has completed her graduation from SHUATS, Allahabad and M.Sc. (Hort.) from MPUAT, Udaipur, with academic excellence. She was recipient of ICAR Junior Research Fellowship during Master's degree from Udaipur and DST, Inspire Fellowship was conferred on Swapnil Pandey to pursue her Ph.D. Degree at PAU, Ludhiana. After completing schoolings in Science with distinction, studied Agriculture and then Horticulture for higher studies. She has specialisation in plant genetic resource management and production system research in horticultural crops. She has published number of papers in journals of national and international repute.

Address: Ph.D Scholar, Department of Fruit Science, PAU, Ludhiana, Punjab, Phone: 09876103689, e-mail: swapnilpandey.kanchan10368@gmail.com

12.17 Mr. Anil Kumar Singh (CF-279)



Mr. Anil Kumar Singh, born in 1970, graduated in 1994 and earned his Master from RAU, Pusa in 1998. He did his Ph.D. in Horticulture from Banaras Hindu University in 2011. He started his career as Sr. Research Fellow in 2000 and subsequently joined as Asstt. Prof. at RAU, Pusa in 2005. During his career, he has significantly contributed towards research and teaching and also for the development in KVK. He has expertise in crop improvement, production technology and Post-harvest Management of fruits. He has published 13 book chapters and many popular articles. He participated in many national seminars, symposiums, workshops and has delivered talk on radio and television.

Address: Mr. Anil Kumar Singh, Vill. + P.O. Sherpur, Via. Vidyapatnagar, Dist. Samastipur, Bihar- 848 103; Phone: 09431479521, 9162134836; Email: anilraupusa@gmail.com

12.18 Dr. M.S. Saraswathi (CF-280)



Dr. M.S. Saraswathi, obtained her PhD from the Tamil Nadu Agricultural University in 2007 and has 19 years of experience in research on genetic resources management of banana, mutation and marker assisted breeding. Throughout her academic and professional career, she has worked with tropical horticultural crops like papaya and banana. At ICAR-NRCB, as Principal scientist, she is associated with national projects aiming at the development of Fusarium/Panama wilt resistant banana through classical and biotechnological means. She has explored and collected several rare

banana clones, contributed for the popularisation of Udhayam (ABB, PisangAwak subgroup) through production and supply of quality planting material. Apart from these, she has developed variety specific tissue culture protocols for supply of quality planting material of traditional banana varieties, ECS development, genetic fidelity analysis and low cost banana tissue culture. Currently, she is pursuing her research on the development of Fusarium wilt resistant cvs. *Rasthali* and *Grand Naine* through mutation breeding. Saraswathi has authored more than 35 peer reviewed articles and book chapters (national and international) and received many awards for her performance during her higher education and presentations in conferences.

Address: M.S.Saraswathi, Principal Scientist (Hort.), National Research Centre for Banana, Thogamalai Road, Thayanur Post, Tiruchirappalli, Tamil Nadu, India; Phone:(0431)-2618125; Fax: (0431)-2618126; Email:saraswathimse@gmail.com

12.19 Maharana Pratap Horticultural University, Karnal (CF-281)



MAHARANA PARTAP
HORTICULTURAL UNIVERSITY, KARNAL

Maharana Pratap Horticultural University, Karnal was established on 6th April, 2016 by laying of a foundation stone by Hon'ble Union Minister, Ministry of Agriculture &

Farmers Welfare, Shri Radha Mohan Singh and Hon'ble Chief Minister of Haryana, Shri Manohar Lal Khattar, subsequent to the announcement by Hon'ble Prime Minister Shri Narendra Modi Ji during the Union Budget, 2014-15. University started functioning from 28th Nov, 2016, after Haryana Act-32 was enacted and implemented. Dr. K.P. Singh, Vice Chancellor of CCS HAU, Hisar, has the additional charge of this newly established University. The University has budgetary allocation of Rs 486.59 crores, from the state of Haryana and a grant of 50 crores have also been sanctioned by ICAR. The university is mandated for Education, Research and sharing knowledge through various activities including the establishment of Regional Stations. Three regional stations have been established and the classes of M.Sc and Ph.D. programme have commenced from the academic session of 2016. The University has also signed MoU with WAGENINGEN University, Netherlands for research on protected cultivation and has started the activities especially on organisation of Workshops, Conference, Sangosthi in collaboration with Department of Horticulture and other organisations. This Horticulture University is the first in Haryana State and 5th in the country and is expected to provide leadership in the development of horticulture, which has emerged as best option in diversification for nutritional security and enhancing farmers' income.

Address: Prof. K.P. Singh, Vice-Chancellor, Maharana Pratap Horticultural University, Camp Office, CCS, HAU, Campus, Hisar (Haryana); Phone: (01662)-256083; Email:regimhu.hry@gmail.com

12.20 Dr Shivendra Kumar, Retd. Principal Scientist and Head (CF-282)



Dr. Shivendra Kumar, born in January, 1952, started his career as ARS in 1978 at Central Rice Research Institute, Cuttack, then in 1984 he shifted to Central Horticultural Experiment Station, Ranchi, and worked there in various capacities, and became Principal Scientist and Head in January, 2003 and worked there till January 2014. In career spanning, 34 years, Dr Kumar has contributed significantly in planning, implementation and coordinating multi-disciplinary research. He was involved in the release of 16 improved varieties of different fruits and vegetable crops and development of eleven production technologies for different horticultural crops.

He has provided leadership in the areas of cultivar development, resistance varieties, production technologies and watershed development research. Variety and hybrids in vegetable crops like *Swarna Shobha*, *Swarna Ajay* (F_1) in brinjal, *Swarna Sampada* (F_1) in tomato, *Swarna Muktiin* garden pea, *Swarna Harita* and *Swarna Suphala* in Cowpea and *Swarna Utkrisht* in Dolichos bean are commercially adopted. Development of year-round production technology of mushroom through standardization of suitable strains is also credited to him. He has published 53 research papers, authored 5 books, 10 chapters in books, 30 extension folders and popular articles. His contributions has earned him many awards and honours, namely Fellow of Indian Phytopathological Society (1992); Elected Zonal President (IPS) (2004); President, Horticultural Society of Chhotanagpur (2004-06; 2008-10). He is associated with many professional societies as executive. He has been Chairman, Consortium Advisory Committee (NAIP) of Grameen Vikas Trust, Ranchi and Member, Board of Management, Birsa Agricultural University, Ranchi. Presently, serving as a Member of Research Advisory Committee of ICAR RCER, Patna and CAZRI, Jodhpur; and Member of QRT, CIAH.

Address: Dr Shivendra Kumar, Retd. Principal Scientist and Head, ICAR RCER, Research Centre, Plandu, Ranchi

12.21 Usha Singh (CF-283)



The details are given under para 4.3

Address: Department of Food & Nutrition, College of Community Science, Dr. Rajendra Prasad Central Agricultural University, PUSA-848125 (Bihar), India, phone 91- 6274 – 240256 (o)/ 240255(Fax). (M) 9431897515; Email: usha_pusa@yahoo.co.in

12.22 Chaudhary Charan Singh Haryana Agriculture University (CF-284)



Chaudhary Charan Singh Haryana Agriculture University (CCSHAU) is a prestigious University, established in 1970. The university received ICAR best Institution Award twice for academic excellence. The University is located 190 km West to New Delhi or NH-9 and spread over in a total area of 8645 acres. The University has four faculty namely horticulture with three colleges, faculty of engineering, faculty of basic science and humanity and faculty of home Science. The University provides Master Degree and Ph.D. in 31 disciplines. The research in university is over viewed

by Directorate of Research and Extension Education by the Director of Extension. The University has been ranked among the top most University by National Research Education System, during 1960-70.

Many of the students have also occupied senior position in the Indian Administrative Services. The University has released 229 improved varieties and continue to provide quality seeds of these varieties. Many of the Production Technologies developed by the University are adopted by the farmers. The University has commercialised 53 technologies by signing 530 MoU with 274 different public and private sector companies/Dept. University has also collaboration with Czech Republic, USA, U.K. Turkey, Nepal, etc. For dissemination of knowledge Krishi Vigyan Kendras (KVKs) have been established, of which the Kurukshetra KVKs was conferred with best KVK Award on 17th March, 2018. The University is also recipient of various Awards. University has also established Agri Business for the commercialization. The leadership is provided by Dr. K.P. Singh, Hon'ble Vice Chancellor of the University.

Address: Vice Chancellor, Chaudhary Charan Singh, CCSHAU, Hisar, Haryana; Tel:1662-231640, 255258; Email: vc@hau.ernet.in

12.23 Dr. K.P. Singh (CF-285)



Details provided in Section 3.3

Address : Prof. (Dr.) K.P. Singh, Vice Chancellor, CCS Haryana Agriculture University, Hisar, Haryana; Tel:1662-231640; Mob:8295782950; Email:vchauhisar@gmail.com

12.24 Dr. B.D. Sharma (CF-286)



Dr. B.D. Sharma, born, on 15th May, 1960, at Hilwari village of Meerut district, Uttar Pradesh. had his intermediate from A.S. Inter College, Lakhaoati (Bulandshahr), UP. He graduated from Meerut University, Meerut in 1980 and earned his M.Sc. Ag. in Agriculture Chemistry, in 1982, from the same university. He obtained Ph.D degree in Soil Science from G.B. Pant University of Agriculture & Technology, Pantnagar in the year 1985. Started his career as ARS scientist at ICAR-Central Arid Zone Research Institute, Jodhpur (Rajasthan), in 1985. After serving CAZRI for 10 years, he got transferred to ICAR-Central Institute for Arid Horticulture, Bikaner in 1995, as scientist Senior Scale and was promoted as Senior Scientist in 1998, at the same Institute. He became Principal Scientist in the year 2006 and was selected as Head, Division of Crop Production in 2013. Dr Sharma, also acted as Incharge Director. He visited TARC, Ishigaki, Okinawa, Japan as Visiting Research Scientist during 1992-93. In career spanning 33 years, Drsharma, has made significant contributions in production system of arid horticultural crops and also for Kinnow mandarin. He developed ber and aonla based cropping system models. As a Soil Scientist, he has developed schedules for fertigation in major mandated crops. The technologies developed by him have been widely adopted by the farmers. He has earned many awards for his contributions. He has published 120 research papers in peer reviewed journals, popular articles, book chapters. Besides these, he has authored 4 books related to arid horticulture. He has contributed to develop the technical bulletins in the Institute. He has been the Member Secretary of Research Advisory Committee ICAR-CIAH, Bikaner, three times Member Secretary of Quinquennial Review Team of ICAR-CIAH and AICRP on Arid Zone Fruits. He has been member of IMC for DRMR, Bharatpur, NRCSS, Ajmer, CAZRI, Jodhpur, NRC on Camel, Bikaner and ICAR-CIAH, Bikaner. He is General Secretary of Indian Society for Arid Horticulture and life member of many professional societies.

Currently, Dr. Sharma is heading Division of Crop Production at ICAR-CIAH, Bikaner and providing leadership in Production System Management of Arid Horticultural Crops.

Address: Head, Division of Crop Production, ICAR-Central Institute for Arid Horticulture, Bikaner (Rajasthan); Residence: 6-SA-16, Pawanpuri, South Extension, Bikaner-334003 (Rajastha; E-mail: drbrijeshdutt@yahoo.co.in; Mob. No. 9460616489

12.25 Dr. D.S. Mishra (CF- 287)



Dr. D. S. Mishra, born on 30th September, 1977 in a small village - Bhopalpur, District, Pratapgarh, Uttar Pradesh, had his matriculation from Saifabad, Pratapgarh and intermediate from Singhramau, Jaunpur. He graduated in Agriculture from NDUAT, Faizabad in 1998. He obtained his M. Sc. (Horticulture) and Ph. D (Horticulture) degrees, both from GB Pant University of Agriculture and Technology, Pantnagar, Uttarakhand in the year 2000 and 2004, respectively. Dr. Mishra started his career in May, 2006 as Assistant Professor at GBPUAT, Pantnagar. He taught several UG and PG courses related to the Horticulture, guided six PG and one Ph. D students. He handled several externally funded projects and organized two national seminars cum workshop and one winter school for strengthening the human resources in horticulture. Presently, he is working as Senior Scientist (Fruit Science) since March, 2016 at Central Horticultural Experiment Station (ICAR-CIAH, Bikaner), Godhra (Gujarat). He is credited to have developed a variety in litchi, micro-propagation protocol for guava. He is a life member of six National societies. Dr. Mishra is recipient of Young Scientist Award, 2017 from SamagraVikas Welfare Society, Lucknow. He has published more than 30 research papers in peer reviewed journals and presented several papers in conferences. He has authored 3 compendium, 15 book chapters, 35 popular articles, 2 technical bulletins and 1 manual.

Address: Dr. D.S. Mishra, Senior Scientist (Fruit science), Central Horticultural Experiment Station Godhra – Vadodara Highway, Vejalpur-389340, Panchmahal (Gujarat), Phone and Fax - 0276 – 234657 Email:dsmhort@gmail.com; Mob. +917016433203.

12.26 Professor Jayashankar Telangana State Agricultural University, PJTSAU (CF 288)



Professor Jayashankar Telangana, The PJTSAU, an youngest agricultural University, located in Telangana, was established on the 3rd of September 2014, is ranked 12th among SAUs by ICAR in 2017 and 82nd among all the Universities in the country by National Institutional Ranking Framework in 2018. Recognised by UGC and accredited by ICAR, the headquarters is strategically located on a sprawling campus of 2538 acre at Rajendranagar, Hyderabad. The university has 5 Agricultural Colleges, one college each of Agricultural Engineering, Food Science and Technology and Home Science. The University offers 4 UG, 22 PG and 17 Ph.D programmes in various faculties. The students from 10 Indian States including Telangana and nine foreign countries are mentored by well qualified young and committed faculty with faculty–student ratio of 1:5, the colleges. Apart from higher education, the university offers skill-oriented Diploma Courses to post matriculate rural based youth through its thirteen polytechnics. Students are encouraged to proactively interact in a conducive learning environment made up of smart boards and modern digitally enabled virtual classrooms, well equipped Central Instrumentation facility, NABL accredited labs for PG and faculty research; seminar halls and

auditoriums to host national and international conferences, concerts, youth festivals, state of the art multi-media studio for developing farmer and student friendly e-resources. Libraries have collection of 1,32,000 books, 315 foreign and Indian periodicals, 1400 e books, 4600 e-journals, 10 databases. Hostels for boys & girls at both UG and PG level, an International Hostel provide not only food and accommodation, but promote community living with all facilities like sports arena, WiFi and green ambience. The University has a strong network of students' counselling & placement cells which facilitate communication and presentation skill development in all constituent colleges for career guidance, placements and coaching for competitive examinations. PJTSAU has an acknowledged "Excellence in Research" in the country, with the Rice and Maize research centres, bagging the best research team awards at the national level. Thirteen improved varieties/hybrids in rice, maize, pulses, oilseeds and fodder crops were released after its formation and the rice variety RNR 15048 (*Telangana Sona*) has found widespread acceptance and has become popular in the neighbouring states as well. The University has research facilities and multi-disciplinary research teams working in 15 research stations and 27 AICRPs, two All India Network Projects spread across the State to develop varieties and sustainable NRM technologies. The Pesticide residue analysis laboratory and Quality Control laboratory are NABL accredited for chemical testing as per ISO: IEC 17025:2005 and offer testing services for various clientele. The 9 District Agricultural Advisory and Transfer of Technology Centres and 8 KrishiVigyanKendras and other digital outreach media centres serve as bridges between the technology generators and the adopters/end user. PJTSAU has forged alliances with 7 international organisations across 4 countries to facilitate student & faculty exchange and knowledge sharing. University has embarked on a journey to skill its undergraduates to imbibe the Start-up culture being encouraged by the Make in India initiative. It has entered into partnerships with Agriculture Skill Council of India, Indigram Labs Foundation and Indian Society of Agribusiness Professionals to motivate its students towards entrepreneurship. PJTSAU is moving towards in agri-education, research extension, and developing a talented Human Resource to meet the challenges in agriculture for ensuring the prosperity of the farming community, health and happiness of the community.

Address: Professor Jayashankar Telangana State Agricultural University (PJTSAU), Rajendranagar, Hyderabad-500 030, Telangana; EPABX: 040-24015011 to 17; 24015161 to 163; Email:pjtsau@gmail.com

12.27. Dr. V. Praveen Rao (CF 289)



Details given in 3.4

Address: Vice chancellor, PJTSAU, Rajendranagar, Hyderabad-500030; Telangana. 040-24015011 to 17; 24015161 to 163; Email:pjtsau@gmail.com Mob: 9849029245, Email:velchalap@gmail.com



12.28. Prof. Ramesh Chand (CF 290)

Details given in 1.1

Address: Member, NITI Aayog, Room no. 110, Phone no. 91-011-23096756/ 23096774 / 23730678 e-mailed.niti@gov.in, NITI Aayog, New Delhi

GUIDELINES OF AWARDS AND FELLOWSHIPS

CHAI-AWARDS AND FELLOWSHIPS

The Confederation of Horticulture Associations of India (CHAI), has instituted various awards and fellowships, **Honoured Fellow** is conferred to distinguished personalities for the leadership a Lifetime Achievement Awards and Honorary Fellowships, to recognize the scientists for their contribution and excellence in agricultural sciences, specially horticulture, including biotechnology and environmental sciences. In addition, it was also decided to institute Padma Bhusan Dr. R.S. Paroda Award for Excellence in research. Subsequently, Padamashri Dr B.H. Jain Award for excellence in dissemination of technology has also been instituted. This award will recognize the outstanding contribution of extension workers and teachers for their contribution in dissemination of knowledge. RamnandanBabu Award for innovative farmers has been instituted to recognize the innovation of farmers. To support the knowledge providers for participation in conference abroad, JISL Fellowship has been instituted. During the year a CHAI- Life Time Recognition Award, and CHAI Appreciation Award. These awards/fellowships will be 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 organized or supported by the CHAI or foundation day. The guidelines framed for nomination, selection and conferment of awards and fellowship, as finalized by Board/Directors/Chairman, which are liable to be amended, from time to time, for CHAI Awards and Fellowships are:

1) CHAI-HONOURED FELLOW

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. 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 honor.
- **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 information 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

A 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 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-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 farmer's 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-B.H. JAIN AWARD

This award has been instituted in the Name of Padmashri 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 converting adopting the knowledge 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 RamnandanBabuMahmada, 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-JISL FELLOWSHIP

This is a sponsored fellowship to promote young scientists, entrepreneurs, farmers-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 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.

8) CHAI-Dr RAY BEST DISSERTATION AWARD

The **Confederation of Horticulture Associations of India (CHAI)**, wishes to recognize 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 supported by CHAI.

Eligibility for nomination

- The student who has submitted the thesis who 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 15th 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 Awas, Sector 18A, 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, which ever 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-2018

To
Chairman CHAI

Thesis entitledof
Mr/Msis nominated for the award of the CHAI-
Dr Ray Best Dissertation Award 2018

Dean of the college

Address:.....Telephone 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:

Signature of the Nominee

Date:

Certificate of Major Guide

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

Signature of of Major Guide

Address with telephone and email

9) CHAI-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.

10) CHAI-LIFE TIME RECOGNITION AWARD

The Confederation of Horticulture Associations of India (CHAI) wishes to recognize 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 boar 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.

11) CHAI-APPRECIATION AWARD

The Confederation of Horticulture Associations of India (CHAI) wishes to recognize the contributions of an individual in his or 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.

12) 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.

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.

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:Telephone No.....

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.com

Membership Fee: NPO member & Corporate member- Rs. 1,00,000, Institutional Member-Rs. 100,000, Association members. Rs 50,000 Individual Member- Rs. 25000 *An amount of Rs. 50 should be added in case of outstation cheques as collection charges. 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.**

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 CO₂ 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 REVIEWED

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
- iii) Treatment comparisons?
- iv) Subject(s), are all plants and chemicals identified?
- v) Materials, are the materials used in study adequate?
- vi) 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

Name of Article Reviewer: Date of Review:

Author(s):

Title:

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.
- iii) Requires major revision and re-review
- iv) Major improvement required in description of methodology and/or discussion and interpretation of results.

Unacceptable

- i) Not relevant to IJH
- ii) Unsuitable experimental procedures.
- iii) Insufficient contribution to knowledge.
- iv) Presentation not of adequate quality.

COMMENTS OF REVIEWERS

Author(s): Title:

Recommendation (check one)

Acceptable with requires major revision

Minor revisions and re-review Unacceptable

Reviewer's Comments (Please provide a paragraph of general comments supporting the recommendation, followed by a list of specific comments. These comments may be in addition to or in lieu of reviewer comments inserted into the text of the article.)

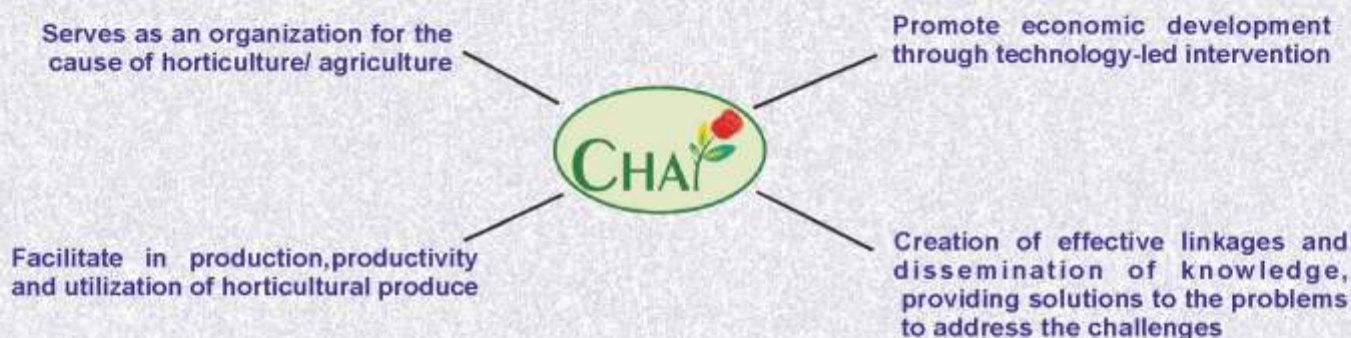
We thank all the reviewers for their dedicated service to IJH, and welcome any comments or suggestions about these requests and instructions specifically, or the IJH review process generally.



CONFEDERATION OF HORTICULTURE ASSOCIATIONS OF INDIA (CHAI)

Let us join with CHAI for the furtherance of Horticulture

Mission: Bringing synergy among different institutions, associations, corporate sector, non profiting organisations, scientists, experts and entrepreneurs to encourage effective participation of all stakeholders for accelerating the economic growth through technological interventions and human resource development.



How to Become Member of CHAI

Membership of the Confederation is open to all who are committed for furtherance of horticulture and membership is available on application to the Confederation and payment of the membership fees. Payment can be made by cash/demand draft/multicity cheque in favor of **Confederation of Horticulture Associations of India** payable at par in New Delhi. The certificate of membership will be in the form of Fellow of CHAI, if approved by the Founder Chairman.

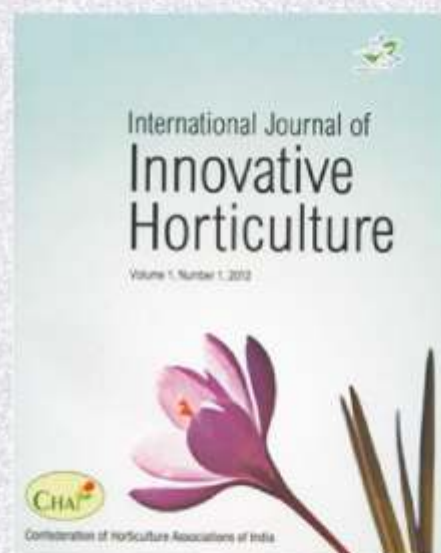
Classes of Membership and Rates

Corporate Member :	Rs 1,00,000
Institutional Member:	Rs 1,00,000
Association Member :	Rs 50,000
Individual Member :	Rs 25,000
Foreign Member :	US\$5000

Member shall be privileged to receive **International Journal of Innovative Horticulture** for 15 years free of cost. They shall be eligible to apply for awards of CHAI and also apply for financial assistance for attending international conferences.

Contact:

Founder Chairman
Confederation of Horticulture Associations of India
249, Vijay Veer Awas, Kargil Colony, Sector 18-A, Dwarka
New Delhi - 110078, India
Tel : 28085749, Mob: 9871450730
Email: confedhorti@gmail.com
Website: www.chai.org.in



Subscription for Libraries

For one year	: Rs 5,000
For three years	: Rs 13,500
For five years	: RS 21,500