





**International Conference - (ICSCI 2022)** 

## INTERNATIONAL CONFERENCE

on

System of Crop Intensification (ICSCI 2022) for Climate-Smart Livelihood and Nutritional Security

## 12-14, December 2022





## **Organised by**











































Venue: ICAR-Indian Institute of Rice Research

Rajendranagar, Hyderabad, Telangana state, INDIA - 500030 www.icar-iirr.org

## Venue



Guest House

Seminar Hall

ADDRESS: INDIAN INSTITUTE OF RICE RESEARCH,

RAJENDRA NAGAR, HYDERABAD 500030

Email Id: DIRECTOR

director.iirr@icar.gov.in

Fax +91-40-24591217

Telephone No: Director Cell: +91-40-24591218

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#### **International Conference in Brief**

#### **Key Dates**

Submission of Extended Summaries	15 November, 2022
Issue of the Acceptance	18 November, 2022
Receipt of the Registration Fee	20 November, 2022
Receipt the Full length papers	20 November, 2022
Request for accommodation	25 November, 2022
Willingness for ICRISAT/field visit	30 November, 2022



### **Conference Programme**

Inauguration	12 December, 2022
Conference	12-14 December, 2022
Poster sessions	12-14 December, 2022
Plenary Lectures / Lead lectures/	12-14 December, 2022
Panel discussion/Farmer and Scientist interactions	
Valedictory Session	14 December, 2022
Field visits and ICRISAT visit	15 December, 2022



Mode: Hybrid mode

Conference Venue: ICAR-IIRR, Rajendranagar, Hyderabad, Telangana, India

### Dr. Himanshu Pathak Patron

Secretary, DARE and Director General, ICAR, New Delhi

#### **Contacts**

**Dr. R.M. Sundaram**Director
ICAR-IIRR

**Dr. C.V. Ratnavati**Acting Director
ICAR-IIMR

**Sri M. Raghunandan Rao,** IAS Vice Chancellor, PJTSAU-TS

Dr. V.K. Singh

Director
ICAR-CRIDA

**Dr. CH. Srinivasa Rao**Director
ICAR-NAARM

### **Organising Secretariat**

**Dr. R.M. Sundaram**Organising Chairman

**Dr. R. Mahender Kumar** Organising Secretary

**Dr. Ch. Padmavathi**Organising Secretary

#### **Co-Conveners**

**Dr. B. Gangaiah**ICAR-IIMR

**Dr. Mangaldeep Tuti** ICAR-IIRR **Dr. B. Nirmala** ICAR-IIRR

**Dr. Brajendra** ICAR-IIRR

**Dr. B. Sailaja** ICAR-IIRR **Dr. B. Sreedevi** ICAR-IIRR

**Dr. Debashish Sen**PSI, Dehradun

**Dr. C. Shambu Prasad**IRMA, Anand

**Sri. Jacob Nellithanam** CIFS, Bilaspur

**Sri. A. Ravindra** WASSAN **Mr. C. Z. Francesco** Programme Director, SRI 2030

For details of International Conference - please visit our websites:

https://www.icar-iirr.org, http://sarr.co.in/icsci2022

E-mail ID of the International Conference 2022:

icsci82022@gmail.com or secretaryicsci2022@gmail.com

#### **International Conference on**

### System of Crop Intensification (ICSCI 2022) for Climate-Smart Livelihood and Nutritional Security

#### **About SARR**

The Society for Advancement of Rice Research (http://sarr.co.in/) is a registered society (2004) for researchers, research manager's, extension personnel, institutions, development agencies, trade and industry who practice and promote activities for the advancement of rice science and development. The society has been started with overall objectives of providing a platform for exchange of information and knowledge and disseminate the latest developments in rice research and to bring together all persons / institutions working for the cause of rice and rice based cropping systems. Laureates of rice science shared their views in different activities of the society in the conferences, brainstorming sessions, Annual Rice Group meetings organized by SARR.

#### **About Conference**

Innovation in food system is required for regional, national and global food security and sustainability. But experiences show that over dependence and reliance on intensive use of agrochemicals, fossil-fuels and other external inputs have put the sustainability of production system at risk. This has also severely affected the health of natural resources (soil, water, environment and food quality). Thus, there is an urgent need to rethink the choice of technology; practices; policies and strategies for innovations in sustainable crop production.

The use of agro-ecological approaches potentially reduce the dependence on external inputs, by mobilizing and invigorating the available biological processes and potentiality of plants and also the soil systems that support our crops in a sustainable manner. There is a significant and ever-increasing empirical evidence that shows that they are workable solutions for secured livelihood and welfare. The innovations in several food systems particularly, in crops like rice, has resulted in advantages not only in enhanced productivity but also in significant saving of water and energy, improved soil health, efficient biological imprints and a drastic reduction of GHG emissions, particularly methane from paddy fields.

The seeing-is-believing impact of System of Rice Intensification (SRI) in various crops has led to the universalization of SRI principles to other crops also. Today, a new paradigm of System of Crop Intensification (SCI) has emerged which improves the productivity and resilience of crops like wheat, finger millet, sugarcane, mustard, etc. SRI and SCI along with other practices such as conservation agriculture, natural farming, etc. are now put together as agroecological practices.

Agroecological/ SCI practices are particularly relevant for the resource-limited farmers because it relies minimally on purchased inputs, cash requirements and dependency on external resources. Experiences also show that by deployment of appropriate, customized mechanization, these methods can be scaled up for commercial production. The induced functioning of root systems and supporting beneficial life in the soil, and buffering capability of these practices on the ill effects of climate change such as drought, storm damage, extreme temperatures, pests and diseases, is shown to be feasible both on large as well as small farms. For food security and farm profitability in the 21<sup>st</sup> century, farmers will need to not only produce more food but also ensure a lighter and more benign 'footprint' on the environment.

There was gradual, but somewhat quite adaptation of these SCI principles/ methods within India and around the world, particularly in Asian countries. Many of these initiatives were inspired and encouraged by various efforts by many institutions and individuals who came together in organizing national conferences on SRI (e.g. Hyderabad-2006, Agartala, Tripura-2007 and Coimbatore-2008 and many other workshops) in which ICAR-IIRR participated and played a major role. The proposed International Conference ICSCI 2022 helps to build on the previous initiatives and experiences and provides platform to share the advances in the knowledge gain and know-how of the SCI/ SRI practices in the changing climate scenario by all the stakeholders.

Now, time is ripe for the world community of researchers, promoters, policy makers and others who are involved in improving, promoting and innovating Agro ecological practices, to come together, to consolidate and spread the knowledge and experience gained so far for the benefit of small and marginal farmers of the world.



Dr. Himanshu Pathak
Patron
Secretary, DARE and DG, ICAR, New Delhi



Dr. R. M. Sundaram Organising Chairman, Director ICAR-IIRR, Hyderabad

#### **Conference Themes**

Theme-1	Current Status of System of Crop Intensification (SCI) in India and rest of the world	AND SECTION ASSESSMENT
Theme-2	Breeding cultivars, land races, ideotypes, Management practices, pest and disease dynamics of SCI	
Theme-3	Resource (water, nutrients, energy, labour etc.) use and conservation, in SCI (Natural Farming, Organic farming, Conservation Agriculture etc.) climate resilience and ecosystem protection	
Theme-4	Agro-industries/Mechanization for scaling up SCI	
Theme-5	SCI adoption and their Socio-economic Impacts including gender, labour and Institutional dynamics	Tudo: 67
Theme-6	Policy needs (at state, national and international levels) for scaling up SCI	

#### **Presentation format**

#### **Plenary Lectures**

Globally and Nationally recognized scientists, policy makers and administrators will be invited to deliver special lectures on the topics related to System of Crop intensification and policy, farming systems research, climate change, resource conservation technologies, resource use efficiency etc. They will be requested to provide 2-3 pages' write-up of their presentation along with brief biodata for inclusion in the Pre-Conference Proceedings. Plenary lectures will be of 30 minutes duration. Full length papers will be published in the special issue of Journal of Rice Research.

#### **Invited Lead Lectures**

These would offer an insight into the various themes/sessions of the Conference. Technical Committees constituted for conference will identify 4 speakers. Each lecture will be of 15-20 minutes followed by discussion. Lead speakers of the symposium will be requested to provide 2 pages (2000 words) summary of their presentation and brief biodata for inclusion in the Pre-conference Proceedings. Full length papers will be published in the special issue of Journal of Rice Research.

#### **Panel Discussion**

Recognized scientists/policy makers, industrialists and farmers will be invited to discuss on the present status of SCI in different crops and technologies to mitigate climate change. Panel discussion will have 5-6 panelists and it will be of one hour thirty minutes duration.

#### **Lightning Talk**

All the delegates will get an opportunity to present their research findings by Lightning talk through physical/digital platform. Lightning talk will be arranged theme-wise. This would provide an opportunity to the participants to present their work in a more informal manner with personalized interaction with other participants. You can add audio or video, web pages, images, forms, links, documents, transcripts, and social media feeds into a single interactive presentation viewer. Lightning talk will be of 5 minutes. Best talk of each scientific theme will be awarded.

#### **Farmer Scientist Interaction**

Sessions of Farmers and Scientist interaction to identify the problems and suggest strategies for up scaling the technologies will be arranged with participating farmers, policy makers and researchers.

#### **Extended Summary**

Delegates will submit Extended Summary of their work before **November 15, 2022**. These extended summaries will be scrutinized and published in Pre-Conference Proceedings. Extended summaries submitted without following guidelines will not be accepted for publication.

The extended summaries of all the papers will be published and provided to the delegates as soft copy in a pen drive during the conference. The Extended summaries must reach by **November 15, 2022.** The guidelines for extended summary are given in this circular separately. A soft copy of the extended summary prepared in Microsoft Word doc. may be emailed to organizing secretary email <code>icsci82022@gmail.com</code> or <code>kumaricsci2022@gmail.com</code>

#### **Poster Presentations**

All the delegates will get an opportunity to present their contributory research papers through oral poster presentation. Poster presentation will be theme wise. This would provide an opportunity to the participants to present their work in more informal manner with personalized interaction with other participants. Material for fixing the posters will be provided by the organisers. Guidelines for both offline and online poster presentation will be circulated.

#### Exhibition, Advertisement and Sponsor Presentations

Limited sponsor presentations will be arranged to provide an opportunity to sponsor and share their views and experiences with delegates. (Stalls especially machinery and designers of equipment's suitable for SCI adoption).

#### **Special Publications**

Organisers are making efforts to bring out special publication and policy document at the end of the conference to give comprehensive coverage to the theme of the conference with future plans.

The guidelines for extended summary are given in this circular separately. A soft copy of the extended summary prepared in Microsoft Word doc. may be emailed to organizing secretary email icsci82022@gmail.com/kumaricsci2022@gmail.com/secretaryicsci2022@gmail.com

#### **Guidelines for Preparation of Extended Summary**

- The Extended Summary should not exceed 3 double space typed quarter size pages, including tables and references. Authors should ensure scientific and grammatical correctness of Extended Summary as it will be published as such without any editing.
- 💠 Follow the style and format of Journal of Rice Research, as per guidelines to authors given at SARR Society website: http//:www.sarr.co.in and each volume of the journal (copy also enclosed).
- 💠 The title should be short, specific and phrased to identify the content of the article.
- 💠 By-line should include the author(s) name(s) {name of the person presenting the paper to be underlined}, and place of work including the name of the university/ organization (Full form-no abbreviation), state, pin code and the country. In case, the present address of any of the author is different, it should be given with complete address as footnote.
- 💠 The extended summary should begin with brief introduction and objectives, followed by methodology, results, conclusion and references. Heading of Methodology, Results, Conclusion and References may be given in sentence case in bold. No heading of introduction is required.
- 💠 All references appearing in the text should appear at the end of the article and vice-versa. The reference should include the names of all authors, year, full title of the article, full name of publisher, place and year should also be given. For proceedings of symposium/seminar etc., the title of the paper, title of seminar/symposium, place, date and pages should appear along with names of all authors and year.
- ❖ Only one table or figure should be included. References should be kept at minimum of 5-6. There should not be duplication of data and figures. Figures should be comprehensive and nicely printed with clear legends. The table should not have more than 6 columns.
- 💠 Author(s) must follow standard abbreviations. All weights and measurements must be in International System of Units (SI).
- 🔥 Extended Summary should be typed in Times New Roman, normal fonts with double space. Font's size for different parts of extended summary Title-14 points bold, Authors- 12 points, Institute name - 11 points italic. Content-11 points. Heading in sentence case.
- 💠 <u>visit our website (www.sarr.co.in/icsci2022)</u> for downloading and preparing the extended summary.
- A The entire Extended Summary including text, figures and tables must be in MS Word Doc file only. All Extended Summaries should be mailed to secretaryicsci2022@gmail.com/icsci82022@gmail.com

## Last date of Extended Summary submission is 15<sup>th</sup> November, 2022.

#### Registration

Google form link:

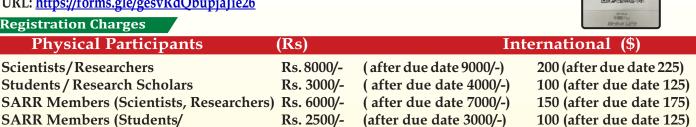
During registration you need to upload a copy of the proof of your payment confirmation.

URL: <a href="https://forms.gle/gesvRdQbupjaJie26">https://forms.gle/gesvRdQbupjaJie26</a>

#### **Registration Charges**

Scientists/Researchers

SARR Members (Students/



Research Scholars,

Industry and Private Organisations	Rs. 150	00/- (after due date 16000/-)	325 (after due date 350)
Online participants	(Rs)	Interi	national (\$)
Scientists / Researchers	Rs. 4000/-	( after due date 5000/-)	100 (after due date 125)
Students / Research Scholars	Rs. 1500/-	( after due date 2500/-)	50 (after due date 75)
SARR Members	Rs. 3000/-	( after due date 4000/-)	75 (after due date 100)
Scientists/ Researchers/ Students/			
Research Scholars	Rs. 2500/-	(after due date 3000/-)	100 (after due date 125)
Industry and Private Organisations	Rs. 7500/-	( after due date 8500/-)	200 (after due date 225)
Everybody has to register to participate in the conference			

#### Who can participate?

- Scientists/ Working professionals in agricultural and allied sectors/ NGOs
- Students / research scholars
- National and International
- SCI adopting Farmers

Symposium will be open to registered participants only.

The registration fee for the participants will cover participation in all scientific sessions, the proceedings and other soft and printed material of the meeting, welcome reception, lunch, and dinner, tea / coffee during lecture breaks. It does not include accommodation charges of the delegates

Registration fee may be sent through Bank online transfer/Demand Draft/ at par cheque in favor of Society for Advancement of Rice Research, Hyderabad.

A.C.No.52114977800, SBI, Budvel branch, IFSC: SBIN0020378,

Foreign delegates need to pay in US dollars or equivalent in Indian Currency

Electronic proof or photocopy of the registration form can be used and payment details to be mailed to organising secretary.

#### Facilities and Fees for Sponsors

Diamond Sponsor (Rs.2,00,000)

- · Name/logo of sponsor to be displayed at prominent places including backdrop of the dais/website
- · Presentation opportunity during the workshop.
- · Advertisement in souvenir (full pagecolor, cover/special insertion)

#### Platinum Sponsor (Rs. 1,50,000)

- Name/logo of sponsor to be displayed at prominent places including backdrop of the dais/website
- · Presentation opportunity during the workshop.
- · Advertisement in souvenir (full page color)

#### **Gold Sponsor (Rs.1,00,000)**

- · Name/logo of sponsor to be displayed at prominent places including back drop of the dais/website
- Advertisement in souvenir (full page color)

#### Silver Sponsor (Rs.50,000)

- · Name/logo of sponsor to be displayed at back drop of the dais
- · Advertisement in souvenir (full page color)

#### **General Information**

**INSURANCE**: The Organizing Committee assumes no liability for participant's personal accidents, sickness, and theft or property damage. Participants are requested to make their own arrangements with respect to health and travel insurance.

**LANGUAGE:** The official language of the Symposium will be English.

**TAXI:** Taxis are on call 24 hrs over the telephone/ online/ mobile apps. Air-conditioned (AC) taxis are available at both the international and domestic terminals of Rajeev Gandhi International Airport. In addition, there are prepaid counters at the airport for travel to any part of the city. The distance from airport to venue is only 20 kms.

#### **Exhibition**

An exhibition will be organized at the venue during the conference. The exhibition area will be the focal point of the conference and the programme is structured to maximize the opportunity for delegates to visit this area. It has limited access to non-delegates also. Space for exhibition can be reserved by contacting the organizers. Exhibitors will get 10 ft x 10 ft space within the Exhibition area, having three sidewalls, carpet, 1 table, 2 chairs, one standard electric powerpoint, two spotlights and dustbin. Fees is Rs. 40000/- per stall by 25 November, 2022.

#### Facilities and Fees for Sponsors and Exhibitors

#### Advertisement

In Souvenir of the Conference, which will contain message from VIP and articles from renowned scientists, policy makers and administrator, there is a provision for giving advertisement by the companies. Souvenir is a very important publication of the conference and kept by the delegates for a long period and used as reference book. Interested companies may contact the organizers for giving their advertisements. The rates for the advertisement are as follows.

Registration fee doesn't include accommodation charges. Limited accommodation is available in government guest houses. Most of the delegates to avail hotels at reasonable cost nearby Rajendranagar- Hyderabad. A wide range of accommodation varying from 5 star hotels to guest houses are available.

#### **Advertisement Tarrif**

Charges / Location	INR (Rs)	USD ( \$)
Back cover page	50,000	1,000
Inner Back cover	30,000	800
Full page Insertion	25,000	600
Half page Insertion	12,500	300

Payment should reach by 30 October, 2022

### Virtual/electronic Format

Online advertisement during Conference (12-14 December, 2022)

1 minute view/cycle: Rs. 50,000 30 seconds view/cycle: Rs.25,000

# Online advertisement on IIRR website (www.icar-iirr.org) and www.sarr.co.in/icsci2022

11-14 December, 2022: Rs. 1,00,000 (30 seconds view cycle)
12-14 December, 2022: Rs. 75,000 (25 seconds view cycle)
12-14 December, 2022: Rs. 50,000 (20 seconds view cycle)

#### **Hotel Tariffs**

5 star Hotels : (Rs. 6000-8000 per day)	Medium Range Hotels :	( Rs. 2500- 5000 per day)
Park Hyatt - Rs 6000	ITC Kakatiya - Rs. 4500	ITC Kakatiya - Rs. 4500
Taj Krishna - Rs. 6000	Golconda - Rs. 3500	Golconda - Rs. 3500
Radisson Hotel - Rs. 4500	Ashoka - Rs. 4000	Ashoka - Rs. 4000

## Guest houses (Per person per day AC room)

NAARM - Rs1500	NIPHM - Rs. 1500	IIOR - Rs. 1000
CRIDA - Rs 1500	PJTSAU - Rs 1200	MANAGE - Rs. 1500
NIRD - Rs 2000	IIRR - Rs. 1000	PDP - Rs. 1000

These tariffs are based on current rates per day. Upward revision of about 10-15% is expected by the time of conference. Limited accommodation may be available for the Indian delegates in various guest houses.

Above tariffs are quoted in Indian Rupees and equivalent currency.

#### **About Hyderabad**

Hyderabad (5<sup>th</sup> Largest City in India), the capital city of Telangana State (3<sup>rd</sup> Largest State in India). Population of more than 50 Lakhs & Agglomerated area 727 sq. kms on the Deccan Plateau.

Location: 17°E 22′ N Latitude & 78° 27′ Longitude

#### Language

The official language of Hyderabad is Telugu but there are various other regional languages spoken by the people of the state of Telangana. English is used for official and commercial purposes. Most people on the streets understand and converse in English. The other languages popular here in Hyderabad are Urdu and Hindi.

#### Time Zone

India has a single time zone. It is 5.5 hours ahead of the GMT, 4.5 hours behind the Australian Eastern Standard time and 11.5 hours ahead of American Eastern Standard Time (winter).

Weather in Hyderabad is very pleasant. Temperature in Hyderabad ranges from 11°C to 42°C.

#### Field Visits, Excursion and Tour

Organizers will arrange visits to experimental fields and Research Institutes at ICAR-IIRR, ICAR-IIMR, ICRISAT and **PJTSAU** 

- Visit to Ramoji film city based Farmer Field visits , Museum and Research Institutes
- Visit to Charminar, Golconda and Muchintal, Monuments and Research Stations

Final programme of these field visits will depend upon the willingness received from the delegates. All these visits will be arranged on payment basis to all delegates on first come first basis.

#### Places of Attraction



floor for more than 425 years.



located in Hyderabad, India. Spread over 1,666 world.



The Charminar constructed in 1591, is a monument Golconda Fort, located in Hyderabad, Telangana, The Salar Jung Museum is an art museum located located in Hyderabad, Telangana, India. The India. Because of the vicinity of diamond mines, at Dar-ul-Shifa, on the southern bank of the Musi landmark has become known globally as a symbol especially Kollur Mine, Golconda flourished as a River in the city of Hyderabad, Telangana, India, It is of Hyderabad and is listed among the most trade centre of large diamonds, known as the one of the three National Museums of India. recognised structures in India. It has also been Golconda Diamonds. The region has produced Originally a private art collection of the Salar Jung officially incorporated as the Emblem of Telangana some of the world's most famous diamonds, family, it was endowed to the nation after the death for the state of Telangana. The Charminar's long including the colourless Koh-i-Noor. The complex of Salar Jung III. It was inaugurated on 16 history includes the existence of a mosque on its top was put by UNESCO on its "tentative list" to December 1951. become a World Heritage Site in 2014.



Ramoji Film City isan integrated film studio complex Sri Ramanujacharya's Statue of Equality made of Panchaloha which stands 216-feet-tall, reflects the acres, it is the largest integrated film city in the world mammoth struggle for change which the social and as such has been certified by the Guinness reformer had championed a 1,000 years ago. World Records as the largest studio complex in the Located in a temple town inside the ChinnaJeeyar Swamy's ashram near Muchintal, the statue was dedicated to the world by Prime Minister Narendra Modi on February 5, 2022





Once upon a time, Hyderabad was known as City of Lakes. Some of these lakes are natural and various are manmade bodies. As per various sources only a few decades back, Hyderabad had a large number of water bodies such as lakes, reservoirs, rivers, streams, aquaculture ponds, tanks etc.

## **Advisory Committee**

Patron: Dr. Himanshu F	Patron: Dr. Himanshu Pathak, Secretary (DARE) & Director General, ICAR			
Name	Designation & Address			
Prof . Ramesh Chand	Member, Niti Aayog, Govt. of India			
Shri. Pramod Kumar Mishra (IAS)	Member, Niti Aayog, Govt. of India			
Shri. Manoj Ahuja (IAS)	Secretary Agriculture, Govt. of India, New Delhi			
Shri. T. Vijay Kumar IAS	Andhra Pradesh Community Managed Natural farming			
Dr. T. R. Sharma	DDG (Crop Science), ICAR, New Delhi, India			
Dr. Suresh Kumar Chaudhari	DDG (NRM), ICAR, New Delhi			
Dr. R. C. Agrawal	DDG (Agricultural Education), ICAR, New Delhi			
Dr. A. K. Singh	DDG (Agricultural Extension), ICAR, New Delhi			
Dr. R. K. Singh	ADG CC ICAR - New Delhi			
Dr. D. K. Yadava	ADG (Seeds), ICAR-New Delhi			
Dr. S. K. Pradhan	ADG FFC ICAR - New Delhi			
Dr. G. Narendra Kumar, IAS	Director General, NIRD&PR, Hyderabad			
Shri Suchindra Misra	Chairman of NABARD			
Dr. J. S. Mishra	Director, ICAR - DWR Jabalpur			
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Dr. Ashok Kumar Singh	Director, ICAR-IARI, NewDelhi			
Dr. Ch. Sreenivasa Rao	Director, NAARM - Hyderabad			
Dr. Onkar Nath Singh	Vice Chancellor, BAU-R, Kanke, Ranchi, Jharkhand			
Dr. Praveen Rao Velchala	Ex. Vice Chancellor, PJTSAU, Hyderabad, Telangana			
Dr. V. Geetha Lakshmi	Vice Chancellor, TNAU Coimbatore			
Dr. A. Vishnuvardhan Reddy	Vice Chancellor, ANGRAU, Guntur, Andhra Pradesh			
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Dr. Jagadish Rane	Director (A), ICAR-NIASM, Baramati, Maharashtra			
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Dr. R. M. Sundaram	Director, ICAR-IIRR, Hyderabad, Telangana			
Dr. M. Sheshu Madhav	Director, ICAR-CTRI, Rajamundry, Andhra Pradesh			
Dr. C. R. Mehta	Director, ICAR-CentralAgricultural, Bhopal			
Dr. G. Ravindra Chary	Project Coordinator-AICRIPDA, Hyderabad			
Dr. G. Hemaprabha	Director, ICAR- IISR, Lucknow			
Dr. Atmaram Mishra	Director, ICAR-IIWM, Bhubaneswar, Odisha			
Dr. Amod K Thakur	Principal Scientist, ICAR- IIWM, Bhubaneswar			
Dr. C. S. Brahmanand	Principal Scientist, ICAR- IIWM, Bhubaneswar			
Dr. A. S. Panwar	Director, IIFSR, Modipuram			
Dr. Anil Kumar	Director, ICAR-CIWA, Bhubaneswar, Odisha			
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Dr. M. Sujatha	Director, ICAR-IIOR, Hyderabad			
Dr. B. C. Virakamath	Ex- Director, ICAR-IIRR, Hyderabad			
Dr. V. Ravindra Babu	Ex- Director, ICAR-IIRR, Hyderabad			
Dr. J. V. Prasad	Director (A), ICAR-ATARI			

#### **National Advisory Members**

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Dr. Shambu Prasad, C. Professor, IRMA, Anand.

 $\label{lem:prof.Ashok M.V.} Prof. Ashok M.V., former Chief General Manager, NABARD, Adjunct Professor in Agribusiness, CAU, Imphal, Manipur.$ 

**Mr. Narendranath Damodaran**, Ex-officio, Member-Secretary and Executive Director, PRADAN, New Delhi.

Dr. Sivadhar, Secretary ISA New Delhi

Mr. Swomya Prakash, Program Coordinator, RRAN, Ahmedabad.

Dr. Ravi Chopra, Chairperson, PRAN

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Dr. G. Suresh, Principal Scientist Agronomy, ICAR-IIOR

Dr. Venkat Ramana – University Head Agronomy - PJTSAU

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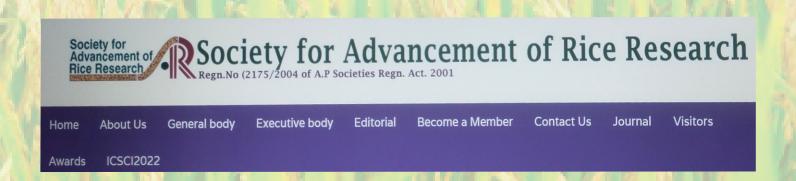
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