





International Conference - (ICSCI 2022)

INTERNATIONAL CONFERENCE

on

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



Venue: ICAR-Indian Institute of Rice Research

Rajendranagar, Hyderabad, INDIA www.icar-iirr.org

Our Sponsors

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NGO Partners	International
National Coalition for Natural Farming (NCNF) Revitalizing Rainfed Area Network (RRAN), Nature-Positive Farming & Wholesome Foods Foundation Low External Input Sustainable Agriculture (LEISA), India Andhra Pradesh Community Managed Natural Farming	• IRRI • ICRISAT • SRI - 2030 and • SRI - RICE • Sustainable Intensification Innovation Lab University, Kansas

International Conference in Brief

Key Dates

Submission Extended Summaries	30 September, 2022
Issue of the Acceptance	15 October, 2022
Receipt of the Registration Fee	30 October, 2022
Receipt of the Full length papers	30 October, 2022
Request for accommodation	30 October, 2022

Willingness for ICRISAT/field visit

Conference Programme

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

Mode: Hybrid mode

Conference Venue: ICAR-IIRR, Rajendra Nagar-HYDERABAD, India

Contacts

Dr. RM SundaramOrganising Chairman &
Director, ICAR-IIRR

Dr. CV RathnavatiActing Director
ICAR-IIMR

Dr. V. Praveen RaoVice Chancellor,
PJTSAU-**TS**

10 November, 2022

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Director
ICAR-CRIDA

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ICSCI2022

Dr. Ch. PadmavathiOrganising Secretary,
ICSCI2022

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For details of International Conference - please visit our websites:

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

E-mail ID of the International Conference 2022: icsci82022@gmail.com or secretaryicsci2022@gmail.com

INTERNATIONAL CONFERENCE

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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 for the past one and half decades. Laureates of rice science shared their views in different activities of the society in the conference, 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 (Uphoff, 2017).

In 2000, the System of Rice Intensification (SRI) was a little-known empirically-grounded innovation, with limited understanding of the scientific basis in increased productivity and sustained agro-ecological benefits. Today, SRI or its customized versions are widely, if not yet fully, accepted practice among stakeholders in rice cultivation around the world (in 60 countries). Thanks to the efforts of individual farmers, civil society organizations, research institutions, and the government and private sector entities, who have spread the new knowledge throughout the rice world.

The seeing-is-believing impact of SRI in various crops (FAO, 2016, p. 44–47; Stoop, Uphoff, &Kassam, 2002; Uphoff, 2015) has led to the universalization of SRI principles to other crops also (Pradhan 2012). 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.

The agroecological practices also require intensive and consistent monitoring and management of plants as compared to conventional cultivation. Such management practices result in remarkable response in crops, resulting in more productive and resilient phenotypes from a set of given genotypes. For food security and farm profitability in the 21st century, farmers will need to not only produce more food but also ensure a lighter and more benign 'footprint' on the environment.

The hydrological constraints (water availability) have threatened future global food production. Under these circumstances, the Agroecological practices are found to make significant water saving (more crop per drop), which is yet to be widely recognized even after 15 years of scientific evaluation of SRI. 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 individual 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. After those conferences, many developments happened in terms of ground level adaptation, policy formulations and most importantly research by many agencies. Now there is quite sizable knowledge base and research on these approaches. The proposed International Conference ICSCI2022 helps to build on the previous initiatives and experiences and provides a platform to share the advances in the knowledge gain and know-how of the SCI /SRI practices in the changing climate scenario.

Now, time is ripe for the world community of researchers, promoters and 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 thus far for the benefit of small and marginal farmers of the world.



Dr. Trilochan Mohapatra, Patron Board of Governors of Conference & Secretary, DARE and DG, ICAR, New Delhi



Dr. R. M. Sundaram Organising Chairman, Director IIRR, Rajendranagar, Hyderabad

Themes

	Theme-1	Current Status of System of Crop Intensification (SCI) in India and rest of the world	Anni Mich &
THE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU	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	Miles 187
	Theme-6	Policy needs (at state, national and international levels) for scaling up SCI	

Presentation format

Plenary Lectures

Globally and Nationaly 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 provides 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 Post-Symposium Proceedings or special issue of Journal of Rice Research .

Panel Discussion

Recognized scientist/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.

Lightening talk

All the delegates will get an opportunity to present their research findings by Lightening talk through physical / digital platform. Lightening 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. Lightening talk will be of 3 minutes. Best talk of each scientific theme will be awarded with digital certificate.

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.

Abstracts / Extended Summary

Delegates will submit extended abstracts/extended Summary of their work before September 30, 2022. These extended summaries will be scrutinized and published in Pre- Conference Proceedings. Guidelines will be circulated separately in the circular. Extended summaries submitted without following guidelines will not be accepted for publication.

Poster Presentations

All the delegates will get an opportunity to present their contributory research papers through 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 organisers. Guidelines will be circulated separately in the circular

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 conference to give comprehensive coverage to the theme of the conference with future plans.

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

Guidelines for Abstracts

Please ensure that your abstract contains no more than 300 words. Please avoid diagrams, illustrations, tables, references or graphics in the abstract. Provide maximum relevant information in the abstract and if the subject matter is empirical, the following structure is obligatory: The objective, methods, results, conclusions.

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 capital letters. 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.
- Number of tables, figures and references should be kept at minimum. There should not be duplication of data and figures. Figures should be comprehensive and nicely printed with clear legends. The figure number and Table should not have more than 6 columns.
- Data of 2 or more years/seasons should be pooled. No symbols for the treatments to be used. 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 capital.
- The entire Extended Summary including text, figures and tables must be in MS Word Doc file only. All Extended Summaries should be mailed to secretaryicsci82022@gmail,com/kumaricsci2022@gmail.com or icsci82022@gmail.com

Last date of Extended Summary submission is 30th September, 2022.

Registration

Google form link:

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

URL: https://forms.gle/gesvRdQbupjaJie26

Registration Charges

	Physical Participants (Rs)	International (\$)
Scientists / Researchers	8000/- (after due date 9000/-)	\$ 200 (after due date \$225)
Students / Research Scholars	3000/- (after due date 4000/-)	\$ 100 (after due date \$125)
SARR Members	6000/- (after due date 7000/-)	\$ 150 (after due date \$175)
Industry and Private Organisations	15000/- (after due date 16000/-)	\$ 325 (after due date \$350)
	Online participants (Rs)	International (\$)
	Omme participants (Ks)	international (\$)
Scientists / Researchers	4000/- (after due date 5000/-)	\$ 100 (after due date \$125)
Students / Research Scholars	1500/- (after due date 2500/-)	\$ 50 (after due date \$75)
SARR Members	3000/- (after due date 4000/-)	\$ 75 (after due date \$100)
Industry and Private Organisations	7500/- (after due date 8500/-)	\$ 200 (after due date \$225)
Everybody has to register to participa	te in the conference	

Who can participate?

- Scientist/ 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 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 convener.

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 30 October, 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 Congress 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 areas 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	1000
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 Congress (7-9 December, 2022)

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

Online advertisement on IIRR website (www/iirr.org) and ICSCI website

07-09 December, 2022: Rs. 1,00,000 (30 seconds view cycle)

08-09 December, 2022: Rs. 75,000 (25 seconds view cycle)

08-09 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	Lemon Tree - Rs. 4,500		
Taj Krishna - Rs. 6000	Golconda - Rs 3500	Red Fox - Rs. 4,500		
Radisson Hotel - Rs. 4500	Ashoka - Rs. 4000	Taj Mahal - Rs. 3,500		

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 (5th Largest City in India), the capital city of Telangana State (3rd 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).

Climate

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 P|TSAU

- 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



The Charminar constructed in 1591, is a monument located in Hyderabad, Telangana, India. The landmark has become known globally as a symbol of Hyderabad and is listed among the most recognised structures in India. It has also been officially incorporated as the Emblem of Telangana for the state of Telangana. The Charminar's long history includes the existence of a mosque on its top floor for more than 425 years.



Ramoji Film City is an integrated film studio complex located in Hyderabad, India. Spread over 1,666 acres, it is the largest integrated film city in the world and as such has been certified by the Guinness World Records as the largest studio complex in the world.



Golconda Fort, located in Hyderabad, Telangana, India. Because of the vicinity of diamond mines, especially Kollur Mine, Golconda flourished as a trade centre of large diamonds, known as the Golconda Diamonds. The region has produced some of the world's most famous diamonds, including the colourless Koh-i-Noor. The complex was put by UNESCO on its "tentative list" to become a World Heritage Site in 2014.



Sri Ramanujacharya's Statue of Equality made of Panchaloha which stands 216-feet-tall, reflects the mammoth struggle for change which the social reformer had championed a 1,000 years ago. 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



The **Salar Jung Museum** is an art museum located at Dar-ul-Shifa, on the southern bank of the Musi River in the city of Hyderabad, Telangana, India. It is one of the three National Museums of India. Originally a private art collection of the Salar Jung family, it was endowed to the nation after the death of Salar Jung III. It was inaugurated on 16 December 1951.



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.

Patron: Dr. T. Mohapatra, Secretary (DARE) & Director General, ICAR

Name	Designation & Address	
Dr. TR Sharma	DDG, ICAR (Crop Science), New Delhi, India	
Dr. Suresh Kumar Chaudhari	DDG (NRM),ICAR, New Delhi	
Dr. RC Agrawal	DDG (Agricultural Education)	
Shri. Pramod Kumar Mishra	Member, Niti Aayog, Govt. of India	
Shri. Sanjay Agarwal (IAS)	Department of Agriculture, Cooperation & Farmers Welfare	
Shri. Pramod Kumar Mishra	Principal Secretary to the Prime Minister of India	
Prof . Ramesh Chand	Member, Niti Aayog, Govt. of India	
Dr. AK Singh	DDG (Agricultural Extension), ICAR, New Delhi	
Dr. R K Singh	ADG CC and FFC ICAR - New Delhi	
Dr. D.K Yadava	ADG (Seeds), ICAR-New Delhi	
Dr. G. Narendra Kumar, IAS	Director General, NIRD&PR, Hyderabad	
Dr. G.R. Chintala	Chairman of NABARD	
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Dr. Ch. Sreenivasa Rao	Director, NAARM - Hyderabad	
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Dr. C. Muthamizhchelvan	Vice Chancellor, SRM Institute of Science and Technology, Chennai	
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Prof. B.S. Mahapatra	President, ISA, New Delhi, Vice Chancellor, BCKV, West Bengal	
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Dr. D. Padmini Swain	Director, ICAR-NRRI, Cuttack, Odisha	
Dr. RM Sundaram	Director, ICAR-IIRR, Hyderabad, Telangana	
Dr. Vilas A. Tonapi	Ex-Director, ICAR-IIMR, Hyderabad, Telangana	
Shri. Vijay Kumar	Andhra Pradesh Community Managed Natural farming	
Dr. C. R Mehta	Director, ICAR-Central Institute of Agricultural Engineering, Bhopal	
Dr. G. Ravindra Chary	Project Coordinator-AICRIPDA, Hyderabad	
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Dr. V. Ravindra Babu	Ex- Director, ICAR-IIRR, Hyderabad	

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Dr. Ravi Chopra, Chairperson, PRAN

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Dr. Rajeev Ahal, Director, NRM, GIZ

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

Dr. Venkat Ramana – University Head Agronomy - PJTSAU

 $\mathbf{Dr.} \ \mathbf{G} \ \mathbf{S} \ \mathbf{G} \ \mathbf{Ayyangar}$, IAS, ,Retd. Senior Deputy Director General

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Dr. Pathik B. Patel, Zonal Coordinator, SARR

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