

*Second Circular*

**National Seminar**  
**on**  
**Smart Technologies for Sustainable**  
**Agriculture and Environment**

**February 22-23, 2024**  
(Thursday-Friday)

**at**  
**ICAR-Central Research Institute for Dryland**  
**Agriculture, Hyderabad**



***Jointly Organized by***



**Indian Society of Agrophysics, New Delhi**  
**and**  
**ICAR-CRIDA, Hyderabad**

**Seminar features**

- The tenth Dr B.P. Ghildyal Memorial Lecture to be delivered by Dr V. Geethalakshmi, VC, TNAU, Coimbatore
- Presentation on “Dr Shibendu Shankar Ray Best Doctoral Thesis Award”

**Research areas on which abstract can be submitted**

- Soil Physics-Flow and transport of water, heat, sediment and solutes, soil-water-plant interactions, Impact of soil physical condition on plant growth, characterization of soil hydraulic properties, soil health and quality, 3-D characterization of soil structure
- Remote sensing and GIS-Land use and land cover mapping, LAI estimation, spatial variability analysis, geostatistics, digital soil mapping, RS based crop insurance, microwave and hyperspectral remote sensing, Drone remote sensing
- Biophysics/Plant physics- Stress monitoring through thermal imaging, Biophysical characteristics of crops
- Simulation modelling- Modelling of crop growth and yield, soil water balance, root water uptake
- Agrometeorology-Crop weather interaction, forecasting of diseases and pests, crop yield estimation, agroadvisory, drought forecasting and management, weather extremes
- Climate change/ adaptation /mitigation
- Machine learning, artificial intelligence, big data analysis, robotic agriculture, digital agriculture
- Precision farming- SPNM, wireless network sensors, VRT, real time crop and soil monitoring
- Conservation agriculture, carbon sequestration and management practices, green house gas emission, soil health under organic farming
- Ecosystem services
- Nanotechnology in agriculture
- Efficient soil and water management strategies
- Soil and water conservation and climate risk management



## Registration fees

Member	:	Rs. 3000/-
Non-members	:	Rs. 4000/-
Students/RA/SRF	:	Rs. 1000/-

Registration fee is to be paid in advance by each delegate to the **Secretary, Indian Society of Agrophysics, Room No. 102, Division of Agricultural physics, NRL Building, ICAR-Indian Agricultural Research Institute (Pusa Campus), New Delhi - 110012** in the form of a bank draft drawn in favour of "**Indian Society of Agrophysics**" and payable on any bank in New Delhi so as to reach the ISAP headquarters by **15<sup>th</sup> February, 2024** or registration fee may also be paid by direct online bank transfer:

**Beneficiary Name : Indian Society of Agrophysics**  
**A/C No. : 90292010026182**  
**IFSC Code : CNRB0019029**  
**Branch Code : 9029**  
**Bank : Canara Bank**  
**Branch : Pusa Campus, IARI, New Delhi - 110 012**



*Registration fee once paid will neither be refunded nor transferred to any other purpose or person.*

## Abstract Submission

Abstracts of original research papers on any above-mentioned topics are invited for ORAL/POSTER presentation in the National Seminar. Each abstract is to be a self-contained one, prepared in **not more than 300 words**, stating briefly the objective(s), methodology and major findings. **Table(s), figure(s) or illustrations will not be accepted.** Presentation of an abstract in oral session will be allowed only when the abstract has been accepted for oral presentation and also one of the authors deposits the Registration fee with the Society office at New Delhi on or before **due date**. Poster sessions will also be arranged. Only those abstracts which are received by due date and presented during the seminar will be post printed electronically.

Registration form and abstract can be submitted through Society website (**<https://www.agrophysics.in/>**). Filled up registration form alongwith the payment details and abstract

can also be sent to **secretary.agrophysics@gmail.com;**  
**isapns2024@gmail.com.**

## Important Dates

Last date for submission of abstract	: 31 <sup>st</sup> January, 2024
Date of issuing acceptance	: 15 <sup>th</sup> February, 2024
Last date of registration	: 15 <sup>th</sup> February, 2024

## Awards

- Fellow, Indian Society of Agrophysics
- Dr Shibendu Shankar Ray Best Doctoral Thesis Award

## Accommodation

Due to limited availability, accommodation in Institute guest houses will be available only on first come first serve basis. Booking in nearby hotels may be facilitated subject to payment of half tariff in advance along with registration fee. Regarding accommodation and transportation, the information and contact details will be notified in society website very soon.

## Contact Details:

### Local Organizing Convenor

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### Organizing Secretary

#### Dr Pragati Pramanik Maity

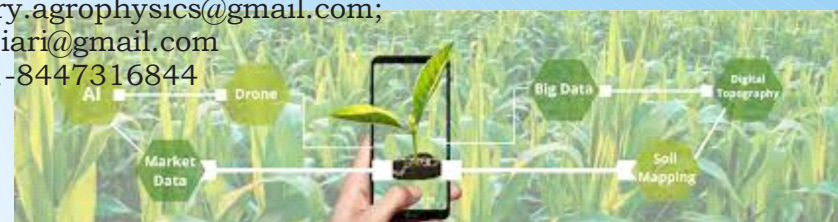
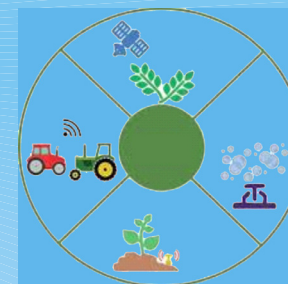
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Dr B.M.K. Raju (Mobile: 9177523781)

### **Chairman, Transportation Committee**

Dr R.V. Adake (Mobile: 9849222195)

## Hyderabad at a Glance

**Charminar** was built by Sultan Mohammed Quli Qutb Shah in 1591. It is square-shaped structure with four pillars and intricate carvings that was built in honour of his wife, Bhagmati. The square shape of the monument measures 20 meters on each side. Each side of the monument is 11 meters wide and overlooks the four prominent thoroughfares. Charminar has been built with granite and lime mortar. The four pillars around Charminar represent the four caliphs. These are four stories, with each floor divided by intricately carved rings that surround it. On the top floor of Charminar, there is a mosque that is believed to be the oldest mosque in Hyderabad city.



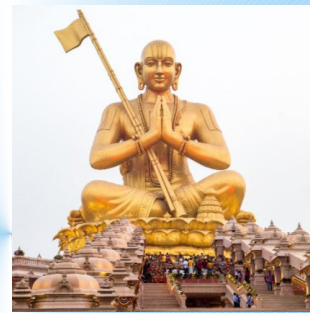
**Golconda Fort** is located in the western part of Hyderabad city and is about 9 km from the Hussain Sagar Lake. The outer fort occupies an area of 3 km<sup>2</sup>, which is 4.8 kilometers in length. It was originally known as Mankal, and built on a hilltop in the year 1143. It was originally a mud fort under the reign

of Rajah of Warangal. Later it was fortified between 14th and 17th centuries by the Bahmani Sultans and then the ruling Qutub Shahi dynasty.

**Salarjung Museum** has a unique distinction as the third largest museum in India and has worldwide fame for its biggest one-man collection of antiques. It is widely known in India for its prized collections dating back to different civilizations. Nawab Mir Yousuf Ali Khan Salar Jung III, the former Prime Minister of the 7th Nizam of Hyderabad, spent most of his income over thirty-five years gathering such priceless collections, which according to historians was his intense passion.



**Ramoji Film City** is a filmmakers' paradise and dream destination for holidaymakers. Spread over the magnificent 2000 acres, Recognized as World's largest film city by the Guinness World Records. Located at a distance of 30 km from the city of Hyderabad, Ramoji Film City is on the NH-9. Established in the year of 1996. Ramoji Rao, the eminent Telugu film producer wanted to build a studio similar to that of Hollywood. Spread across an area of almost 2500 acres. The architecture of the studio and the wide range of settings makes it one of the favourite spot for many filmmakers.



**The Statue of Equality** is a statue of the 11<sup>th</sup> century Indian Philosopher Sri Ramanujacharya, located at Muchintal, Ranga Reddy district in the outskirts of Hyderabad. It is the second-tallest sitting statue in the world. The project of building the statue was conceptualized by the trust to commemorate 1,000-year birth anniversary of Ramanuja. Total 700 tonnes of *panchaloha*, a five-metal alloy

of gold, silver, copper, brass and zinc was used to build the statue. It was built in China and later shipped in 1600 individual pieces to India via Chennai Port in 54 shipments. The assembly progressed during 2017 and 2018 and took 15 months to complete.

**Hussain Sagar Lake** is situated just 2 km away from the heart of the city, Hussain Sagar is one of the most popular tourist places in Hyderabad. The lake connects two parts of the city (Secunderabad and Hyderabad) to each other. The largest artificial lake in Asia, Hussain Sagar Lake was excavated in 1562 AD during the reign of Ibrahim Quli Qutub Shah. Built on the tributary of River Musi, the lake has been named after Hussain Shah Wali. Hussain Sagar Lake was initially to build to cater to the irrigation needs and other water needs of the city. Until the year of 1930, it was used for the same purpose.



**National Seminar on “Smart Technologies for Sustainable  
Agriculture and Environment” of the Indian Society of  
Agrophysics  
REGISTRATION FORM**

TO BE FILLED IN AND RETURNED ON OR BEFORE **15th February, 2024** TO ISAP  
HEADQUARTERS  
THROUGH MAIL (Email: [secretary.agrophysics@gmail.com](mailto:secretary.agrophysics@gmail.com))

*Please fill in and ✓(tick) the appropriate entries (r)*

NAME (BLOCK LETTERS)

Membership Number: 

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 Designation:

Full postal address with PIN

PIN					

Email: .....

Mobile .....

- I intend to attend the National Symposium on “Smart Technologies for Sustainable Agriculture and Environment” from February 22-23, 2024 at ICAR-CRIDA, Hyderabad
- I shall be accompanied by my spouse/ children. Name(s) .....
- I have deposited Rs. 4000/- (Rs 1000/- in case of students/RA/SRF) as Registration Fee vide Bank Draft No. ....dated ...../ Local Cheque No. .... dated ...../ as Cash on (date) .....(strike out whichever is not applicable) for attending the Seminar.

I intend to present the following paper(s) at the National Seminar on " Smart Technologies for Sustainable Agriculture and Environment "

1. Paper No. ....

Title of the paper: .....

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Author(s):.....

2. Paper No. ....

Title of the paper: .....

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Author(s):.....

- ☐ I do not intend to present any paper at the National Seminar.
- ☐ I shall make my own arrangements for stay in Hyderabad during the Seminar.
- ☐ I shall require accommodation to be arranged for me/ us by the organizers on payment (in advance) of the scheduled charges.
- ☐ I/ we require boarding arrangements to be made for me/ us on payment of charges.

Dated

Signature .....