

First Announcement

# 13th NATIONAL SYMPOSIUM on Fostering Resilient Coastal Agro-Ecosystems

22nd - 25th February, 2023

at

Regional Agricultural Research Station, Tirupati,  
Acharya N.G. Ranga Agricultural University, Andhra Pradesh

<https://rarstpt.org>

Organized by



**Indian Society of Coastal Agricultural Research**

ICAR-CSSRI, Regional Research Station, Canning Town, West Bengal

[www.iscar.org.in](http://www.iscar.org.in)



ANGRAU

**Acharya N.G. Ranga Agricultural University**

Lam, Guntur, Andhra Pradesh

<https://angrau.ac.in>

In Collaboration with



**ICAR-Central Soil Salinity Research Institute**

Karnal, Haryana

<https://cssri.res.in>





## BACKGROUND

Coastal agro-ecosystems represent transitional zones with both terrestrial and marine influences and vice-versa. It comprises not only shoreline ecosystems but also near shore littoral and sub-littoral ecosystems influenced by both land and sea. In India around 250 million population reside within 50 km of the 7500 km coastline that is shared by 9 states (West Bengal, Orissa, Andhra Pradesh, Tamil Nadu, Kerala, Karnataka, Maharashtra, Goa and Gujarat) and 2 union territories (Puducherry, Dadra & Nagar Haveli and Daman & Diu) and two groups of islands viz., Andaman-Nicobar and Lakshadweep-Minicoy group of islands) comprising 77 towns and cities including 3 megacities viz., Mumbai, Kolkata and Chennai. The coastal region occupies about 5.5 percent of the total land area of the country.

The coastal ecosystems in India have wide variability in climatic, topographic and edaphic conditions which play a vital role in nation's economy due to its diverse resources, productive habitats and rich biodiversity. *Sundarbans* the biggest continuous patch of mangrove forest in the world located, in the contiguous coastal areas of India and Bangladesh, is a UNESCO heritage.

Coastal ecosystem is highly fragile and suffers from frequent natural disasters like, cyclones, storm surges, tsunamis besides, global temperature rise leading to sea water inundation of lowland areas. Agriculture is the major livelihood of the people living in rural coastal areas but it is highly complex, diverse, risk-prone and entirely dependent on the vagaries of nature. More than 90% of farmers in the coastal region are marginal and small and they are some of the poorest in the world due to very low productivity and low cropping intensity. The rainfall statistics is diverse in coastal regions varying from very low to very high total annual rainfall but it is mostly unimodal, with more than 80% occurring in monsoon season. Majority of crop fields are low-lying and in high rainfall areas most of them remain under deep waterlogging in monsoon season when traditional tall *indica* rice varieties is the only crop that can be grown in the area, as they are more tolerant to biotic and abiotic stresses compared to high yielding varieties. Since good quality irrigation water is scarce in the region and rainfall is very scanty/ uncertain in non-monsoon months majority of the fields remain fallow throughout the year after monsoon. In relatively low rainfall regions, less water requiring crops like oil seed crops such as groundnut, sunflower, linseed, safflower, etc. pulses, fiber crops like cotton, vegetable & fruit crops, plantation crops, spices, etc. are grown but the yields are very low.

Changing rainfall patterns and increased frequency of extreme events attributed to climate change are inflicting added vulnerabilities to livelihoods, land productivity and resource utilization in the region. Due to complex hydro-geologic set up most of the coastal soils suffers from presence of shallow water table (usually brackish), drainage congestion and salinity hazards of varying degrees besides, acidity, nutrient toxicities/ deficiencies, etc. A range of ecosystem services critical to ecological and economic security of the region needs attention for its sustainable uses of coastal lands. It is viewed that there are immense opportunities for enhancing the productivity of coastal lands through efficient management of fresh surface and groundwater resources, rainwater harvesting, varietal improvement of crops, careful planning of the crop calendar, integrated cultivation of agriculture-horticulture-social forestry (with mangrove and non-mangrove plants) crops along with pisciculture-livestock-poultry and efficient agronomic practices, etc.

Because of constant population pressure the Govt. of India, ICAR, Agricultural universities and state Govts. are now paying special attention for increasing the productivity of low productive lands like coastal lands. The coastal agriculture across the country is the major contributor to food production systems, particularly rice and fish. The coastal and marine fisheries provide a major source of animal protein to the people of the country. Due to unsustainable development, coastal areas are being exploited unscientifically that affects the natural biological wealth of the region. Major challenges to achieve the self-reliance goal could be, managing the natural resources of the small-holder farmers efficiently, uses of critical resources (land and water) sustainably, reducing the farmers distress through scientific input management, proper training and extension activities. Appropriate management of agriculture and allied sector productivity against environmental risk, enhancing marketable surplus through grassroots level institutional innovations (like farmers organization) and linking farm to markets are the need of the hour. Suitable policies are to be evolved to protect the interest of different stakeholders of the coastal region with particular focus on multiple use of coastal resources. The problems of livelihood in these areas are compounded manifolds owing to a series of technological, administrative and socio-economic constraints, which need to be addressed on a common platform. Keeping in view of the above issues, the Indian Society of Coastal Agricultural Research (ISCAR), Canning Town, West Bengal in collaboration with Acharya N.G. Ranga Agricultural University, Andhra Pradesh and ICAR-Central Soil Salinity Research Institute, Karnal, Haryana is organizing a National Symposium on '**Fostering Resilient Coastal Agro-Ecosystems**' during 22<sup>nd</sup>-25<sup>th</sup> February, 2023 at Regional Agricultural Research Station, ANGRAU, Tirupati, Andhra Pradesh, India.



## About **ISCAR**

The Indian Society of Coastal Agricultural Research (ISCAR), established in 1983, is a pioneer scientific society in India engaged in establishing linkage among the scientists, academicians, Research Institutes, Universities and NGOs, for co-ordination of overall research activities related to agriculture and allied sectors in coastal areas of the country. It publishes regular research journal "Journal of the Indian Society of Coastal Agricultural Research" and holds meetings, workshop, seminar, etc. to keep close exchange of views among the farmers, researchers, extension workers, etc. working on different problems of agriculture and allied sectors in coastal areas. The society has already held twelve National Seminars/Symposiums and two International Symposiums in various parts of the country.

## About **ANGRAU**

Acharya N. G. Ranga Agricultural University (ANGRAU) was established under the name of Andhra Pradesh Agricultural University (APAU) on 12<sup>th</sup> of June 1964 through the APAU Act, 1963. Later, it was renamed as Acharya N. G. Ranga Agricultural University on 7<sup>th</sup> of November, 1996 in honour and memory of the noted Parliamentarian and Kisan Leader, Acharya N. G. Ranga. At the verge of completion of Golden Jubilee Year of ANGRAU, it has given birth to a new State Agricultural University namely Prof. Jayashankar Telangana State Agricultural University with the bifurcation of the state of Andhra Pradesh as per the Andhra Pradesh Reorganization Act, 2014. These institutions located in the residuary state of Andhra Pradesh were then grouped under a new university with the same name as Acharya N. G. Ranga Agricultural University in Guntur. The ANGRAU is serving the students and the farmers of 13 districts in the new State of Andhra Pradesh with renewed interest and dedication.

## About **ICAR-CSSRI**

Central Soil Salinity Research Institute (CSSRI) is a premier research institute dedicated to pursue interdisciplinary research on salinity / alkalinity management and use of poor-quality irrigation waters in different agro-ecological zones of the country. The institute has three regional research stations, one each at Canning Town, West Bengal and at Bharuch, Gujarat to conduct research on problems of coastal salt affected soils and the third one at Lucknow, Uttar Pradesh to conduct research for managingsalt affected soils of Central and Eastern Gangetic Plains. The Coordinating Unit of AICRP on Management of Salt Affected Soils and Use of Saline Water in Agriculture is located at the Institute with a network of eight research centres located in different agroecological regions of the country to address issues of reclamation and management of salt affected soils and use of poor-quality ground waters in the regions. The Institute has grown into an internationally recognized esteemed centre of excellence in salinity research. The Institute and its regional research stations have developed several technologies for the reclamation and management of salt affected soils through use of chemical amendments, surface and subsurface drainage, land shaping technologies, use of salt tolerant trees and released a number salt tolerant varieties of rice, wheat and mustard, etc.

## About **REGIONAL AGRICULTURAL RESEARCH STATION [RARS], TIRUPATI**

Regional Agricultural Research Station (RARS), Tirupati is the headquarters of Southern Zone, located in Tirupati. It was established in 1979 with a mandate to conduct research on groundnut and groundnut-based cropping systems, soil and water management, Watershed management, pulses and fodder crops. The Institute of Frontier Technologies established at RARS, Tirupati has modern infrastructure and state of the art lab facilities to support research in advanced technologies viz., Biotechnology, Bioinformatics, Nanotechnology, Bio-control, Soil and Water quality analysis. This institute is acclaimed to be the best functioning laboratory in the university as well as in Tirupati.



# OBJECTIVES OF THE SYMPOSIUM

To analyze the production constraints in the coastal Agro-ecosystem.

To draw out strategies for resilient agricultural technologies for improving livelihood security with scientific use of diverse natural resources in coastal Agro-ecosystem.

To share the knowledge available with researchers, academicians, and other stakeholders for addressing the complex problems of coastal regions.

To prepare a road map taking into consideration the value addition and market intelligence under changing global scenario.

## THEMES

The participants are invited to submit papers on the topics mentioned under the following themes.

### **THEME 1: Development in agriculture, horticulture and plantation crops and their tolerance to biotic and abiotic stresses**

Agricultural crop management and cropping system intensification, crop improvement including biotechnological approaches, genetic resource management, abiotic and biotic stresses, management of horticultural and plantation crops, plant protection measures, recent development including nanotechnology in stress management

### **THEME 2: Technological advancement in fisheries, livestock and poultry management**

Livestock production system - technological innovations and options, aquaculture production system - technological innovations and options, poultry production system - technological innovations and options, estuarine and marine aquaculture, fish processing and value addition

### **THEME 3: Natural resource management, forestry and bio-diversity in coastal and marine ecosystem**

Natural resources - assessment and degradation, inventory of soil and water in coastal ecosystem, remote sensing and other state of art tools, carbon dynamics and sequestration in coastal ecosystem, water pollution, eutrophication, farm machinery development, forestry and biodiversity, mangrove dynamics, coral reef dynamics, eco-tourism for livelihood

### **THEME 4: Climate change and disaster occurrence: impact and mitigation strategies**

Climate change trends, its impact on agriculture, horticulture, fisheries, forestry and animal husbandry, disasters in coastal ecosystem and management, forecasting and early warning

### **THEME 5: Technological impact on the socio-economics, gender issues, markets, institutions and new opportunities**

Technological impact on the socio-economics, gender issues, markets, institutions and new opportunities, business models on value chain and post-harvest use, FPOs

### **THEME 6: Andhra-coast: performance, challenges and opportunities**

Coastal agriculture, fisheries, horticulture and forestry including mangroves performance, challenges and opportunities with special focus on the coastal area of Andhra Pradesh.

## WHO CAN PARTICIPATE?

The participation is open to all individuals, researchers, teachers, students, organizations and NGOs, who are engaged in the research and development of coastal agriculture and conservation of coastal Agro-ecosystem.



## CALL FOR PAPERS

Participants are requested to submit the Abstracts written in not more than 500 words (Font Times New Roman, 12 pts, double spaced) through online submission in the Symposium website <https://www.iscarsymposium2023.org> or by e-mail ([nsfrca2023@gmail.com](mailto:nsfrca2023@gmail.com)) on or before January 15, 2023. The symposium proceedings will include abstracts only and will be distributed during the Symposium. All submissions must be written in English language and in Microsoft Word document only. The title should be followed by the name(s) of the author(s) with the name of the presenting author underlined and their affiliations. E-mail address of the corresponding author must be provided for communication. Presentation of papers may be in the form of oral or poster and the decision will be communicated on or before January 21<sup>st</sup>, 2023.

## REGISTRATION FEE

Category	Within 31 <sup>st</sup> January, 2023	After 31 <sup>st</sup> January, 2023
Participants	INR 5000	INR 6000
Students/ Research Scholar	INR 2500	INR 3000
Accompanying person	INR 2500	INR 3000

The symposium registration fee includes all symposium sessions, symposium materials, tea/coffee, 3 symposium lunch and 3 symposium dinner. Registration kits will not be given to the accompanying person. Registration fee does not include accommodation charges. Participants may book their accommodation in hotels or guest houses directly. Necessary help will be provided to find suitable place of accommodation. The organizers will provide to and fro transport free of charge if the place of accommodation does not exceed 6 km from the symposium venue.

## EXHIBITION

Exhibition stalls for display of products or technologies during the symposium days will be facilitated upon payment of INR 25,000/- per stall (Stall size 3m × 3m).

## SPONSORS

The organizers will be delighted to have sponsors in this National Symposium **“Fostering Resilient Coastal Agro-Ecosystems”**. The sponsors will get a unique opportunity to promote and showcase their organization and their products at a national platform. They will be able to get an excellent cost-effective ideal marketing opportunity by reaching out to large gathering of scientists, administrators, policymakers and consumers at a common place. The level of sponsorship along with details will be published shortly in the website.

## MODE OF PAYMENT

Registration fees/ Stall charges may be paid through demand draft in favour of “Local Organizing Secretary NSFRCA” (A/c No. 209812010000404) payable at Tirupati within India. For Electronic Transfer, please remit funds through IFS Code: UBIN0820989; Account number: 209812010000404; Account Name: Local Organizing Secretary NSFRCA; Beneficiary: Local Organizing Secretary NSFRCA, Regional Agricultural Research Station, Tirupati - 517502, Andhra Pradesh; Bank: Union Bank of India, Thummalagunta, S.V. Veterinary University, Tirupati - 517502, Andhra Pradesh.



All the participants are requested to fill up the attached Registration cum accommodation form and send to the Local Organizing Secretary by E-mail at [nsfrc@gmail.com](mailto:nsfrc@gmail.com) before the due date. For accommodation, local travels, venue, etc. participants are requested to contact Organizing Secretaries.

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## IMPORTANT DATES & VENUE

Date of Symposium:

**22-25 February, 2023**

Last date for abstract submission:

**11 January, 2023**

Communication of acceptance:

**21 January, 2023**

Last date for receiving registration fee (without late fee):

**31 January, 2023**

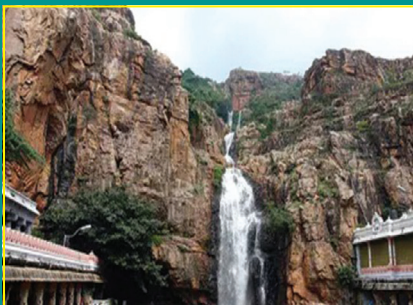
The Symposium will be held at the Regional Agricultural Research Station, ANGRAU, Tirupati-517502, in the state of Andhra Pradesh, India.

## ABOUT TIRUPATI

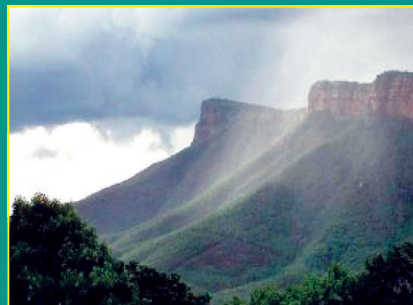
Tirupati is a city in the Indian state of Andhra Pradesh. It is the administrative headquarters of the Tirupati district. It is located at a distance of 150 km from Chennai, 250 km from Bangalore and 415 km from Amaravati. Tirupati the devotional city nestled at the foot hills of the sacred Tirumala Hills is famous for the Lord Venkateswara Temple, Tirumala and other historic temples and is referred to as the "Spiritual Capital of Andhra Pradesh". The abode of Lord Sri Venkateswara (Sri Balaji) is one of the world's most famous pilgrim Centre. During the month of February, the weather will be warm (average day time temperature 33°C) and the night is cool (20°C) and light cotton or linen clothes are suitable.



Sri Venkateswara Temple



Kapila Theertham



Seven Hills

## HOW TO REACH

Tirupati is well connected by Air, Rail and Road. Participants traveling by train should alight at Tirupati or Renigunta Railway Station. City transport service is available to reach the Regional Agricultural Research Station, Tirupati. Sri Venkateswara Airport of Tirupati is located 15 km from the city and has daily flights to Coimbatore, Hyderabad, Kolkata, Mumbai, New Delhi, Bengaluru, Kolhapur, Pune, Tiruchirapalli, Madurai, Shirdi, Rajahmundry, Gulbarga, Hubli, Vijayawada and Visakhapatnam. The closest international airport is Chennai International Airport which is 130 km from Tirupati.





## AWARDS

### **Fellow of ISCAR**

This award is bestowed on distinguished members of the Society for their outstanding contributions and dynamic leadership in Research & Planning for augmenting agricultural production in the coastal areas. The award comprises of a certificate, a citation and a memento. Nominations are invited from members of the society for the award. The nominated scientist should be a life member of the society for at least for five consecutive years. Nominations must be proposed and seconded by a member of the society. The nominations are scrutinized by a selection committee headed by the President of the Society and the award is generally conferred at the time of the Symposium organized by the Society. Not more than two fellows shall be selected in a year. For details please visit <https://www.iscar.org.in/awards>. Last date for receipt of nomination is 10<sup>th</sup> January 2023.

### **Dr. J. S. P. Yadav Best Paper Award**

The Indian Society of Coastal Agricultural Research (ISCAR) has introduced the “Dr. J. S. P. Yadav Best Paper Award” to the author(s) for the best research paper published in the Journal of the Indian Society of Coastal Agricultural Research. The quality of the paper including the originality of scientific information, innovation, field applicability, etc. will form the criteria for selection of the award. The best research paper will be selected by a panel of experts. The panel will be selected by the President of the Society and will be valid for two years. The final recommendation of the committee will be placed before the Executive Council for its approval. This award is for one paper only in every two years, published during the 2021-2022. A token cash amount will be awarded to the author(s). In addition to the cash award, a certificate and a citation will be given to the awardee. The awardee will be requested to present the paper as a ‘Special Award Lecture’ in the NSFRCA.

### **Dr. H. S. Sen Best Poster Presentation Award**

The award is given for the best poster presentation at the Seminar/Symposium of the Society. A committee is nominated during the seminar/symposium to go through the poster presentations and select the best poster presentation. The award carries a certificate, a citation and token cash award. The award is conferred at the plenary session of the symposium.

### **ISCAR Best Paper Presentation Award for Early Career Researchers**

The Society confers best paper presentation award to early career researchers (below 40 years) during the Symposium. The candidate has to submit a brief resume with date of birth and willingness to compete for the award along with the research paper. The researcher intending for the award must be first author of the paper and it should be based on original research work and not submitted anywhere for publication. Based on the quality of the paper and relevance to the coastal ecosystem and Society’s mandate, the selected researchers as recommended by evaluation committee constituted by the Society will be invited for presentation during Symposium. For details please visit <https://www.iscar.org.in/awards>. Last date for receipt of nomination is 10<sup>th</sup> January 2023.

### **Best Oral and Poster Presentation Awards**

During the symposium awards will also be presented for best paper presentation in oral and poster categories. The award will be given for each theme, based on the recommendation made by the evaluation committee constituted by the society.



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