



FIRST CIRCULAR



XXII Biennial National Symposium

on

Climate Smart Agronomy for Resilient Production Systems and Livelihood Security

November 22-24, 2023

at

ICAR-Central Coastal Agricultural Research Institute, Ela, Goa



Organized by

The Indian Society of Agronomy
Division of Agronomy



ICAR-Indian Agricultural Research Institute, New Delhi 110 012

In collaboration with

ICAR-Central Coastal Agricultural Research Institute, Ela, Goa 403 402



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About Symposium

BACKGROUND

Agriculture is the main stay for majority of the Indian population. The share of agriculture in the country's GDP is ~16% and 45% of the population is solely dependent on agriculture. Indian agriculture is dominated by small holders who are more prone to the effects of climate change. Climate change and variability are the biggest threats to agricultural sustainability and are severely impacting the livelihoods of the farmers. Low per capita land availability, limited infrastructure, limited access to technologies, and finance for smallholders for adaptation to climate change. The loss of farm revenue due to extreme temperatures and rainfall shocks has been estimated to be as high as ~12% for rainy and ~6% for winter crops in India.

The pace of food production must be accelerated to achieve food and nutritional security, which is imperative for India to achieve the 'zero hunger' goal by 2030. A comprehensive approach is necessary for increasing food production and for improving its distribution and delivery mechanisms in view of the rapidly changing climatic conditions and depletion of natural resources which exert unprecedented pressure on production systems. We need a transformative shift in Indian agriculture through innovations and interventions so that the gap in income between agriculture and non-agriculture-dependent workers can be bridged. Similarly, we need to develop pathways for enhancing farmers' income, nutritional security, and sustainable food systems in face of climate change.

There is a vital role of science, technology and innovation in achieving food and nutritional security while making agriculture more efficient, competitive, and sustainable. Climate-Smart Agronomy (CSA) is an approach to help people to manage agricultural production systems and respond effectively to climate change. It emphasizes on the sustainable increase in productivity and incomes and promote adaption of climate mitigation practices to reduce greenhouse gas emissions, where ever possible.

The strategies such as multiple stress tolerant crops, their varieties, breeds of animals, water, energy, nutrient management, feed and health improvement of animals and poultry, integrated crop, livestock, aquaculture and agroforestry systems, landscape approaches; improved grassland and forestry management; restoring degraded lands; precision input management, improvement in soil carbon and soil health, crop diversification, conservation agriculture strategies, etc. aim at adaptation to climatic variability. They further increase agricultural productivity, resource use efficiency and contribute to climate mitigation co-benefits. A critical look at these strategies and the evidences of their performance with respect to the climatic stresses will help in targeting and mainstreaming them in developmental planning.

An integrated, evidence-based and transformative approach for addressing food and climate security requires coordinated actions at multiple levels, from research to policies and investments, and across private, public and civil society sectors to achieve the scale and rate of change required. The development and identification of appropriate location-

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specific technologies is the foremost step for agriculture sector to move onto climate smart pathways which can effectively address climate, food security, poverty concerns in the short term and the livelihood and sustainability concerns in the long term.

The 22nd Biennial National Symposium on “Climate Smart Agronomy for Resilient Production Systems and Livelihood Security” is being organized during 22–24 November, 2023 at ICAR-Central Coastal Agricultural Research Institute, Goa, by The Indian Society of Agronomy (ISA). The aim of the conference is to gather professionals working in the field of Agronomy, Soil Science, Soil & Water Conservation Engineering, Forestry, Horticulture and allied agricultural sciences, UG/PG Students, Research Scholars, Faculties and Scientists from R&D industries academic institutions and NGOs to participate and present their work on sustaining productivity in the era of climate change while managing the scarce natural resources. The deliberations will cover the successful initiatives made on climate resilient production systems, latest technological interventions adopted in mitigating the climate change, adaptation practices needed to minimize the impact of various climatic stresses to enhance productivity and to stabilize farm income. Opportunities emanating on various aspects like carbon management, abiotic and biotic stress management, redesigning agricultural research, extension and education, diversified land use promotion with integrated farming systems for mitigation of climate change impacts would be discussed extensively. The proceeding of the national symposium would be brought out and the recommendations contribute to developing climate smart agronomic practices, resilient production systems which can contribute to enhanced farm income and sustainable livelihoods.

The recommendations of the symposium will guide to the researchers and policy planners in designing of climate resilient cleaner production policy for sustainable food production and environmental sustainability. The papers in the symposium are invited on innovative ideas and approaches under 9 sub-themes:

1. Organic farming and Natural Farming
2. Precision input management
3. System approaches for agro-ecosystem sustainability and integrated farming systems
4. Machine learning and artificial intelligence in smart agronomic management
5. Carbon management in agricultural production systems
6. Millets (Shree Anna) for human and environmental health
7. Agro-ecological approaches for biotic and abiotic stress management
8. Post-harvest management to achieve the farm-to-fork concept
9. Redesigning agronomy for knowledge and skill development

VENUE

The symposium is scheduled to be held during **22–24 November 2023** at **ICAR-Central Coastal Agricultural Research Institute, Ela, Goa.**

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ABOUT GOA

Goa is a state on the south-western coast of India within the Konkan region, geographically separated from the Deccan highlands by the Western Ghats. It is located between the Indian states of Maharashtra to the north and Karnataka to the east and south, with the Arabian Sea forming its western coast. Panaji is the state's capital, while Vasco da Gama is its largest city.

The historic city of Margão in Goa still exhibits the cultural influence of the Portuguese, who first voyaged to the subcontinent in the early 16th century as merchants, and conquered it soon thereafter, where upon Goa became an overseas territory of the Portuguese Empire, part of what was then known as Portuguese India, and remained as such for about 456 years until it was annexed by India in 1961. Goa's official language is Konkani. Goa is visited by large numbers of international and domestic tourists each year because of its white-sand beaches, active nightlife, places of worship, and World Heritage-listed architecture. It also has rich flora and fauna because it lies very close to the North Western Ghats rainforests, one of the rare biodiversity hotspots of the world.

CALL FOR EXTENDED SUMMARIES

Agronomists, Scientists, Students and other Stakeholders of related disciplines are invited to participate and share their experience in the symposium. They are requested to contribute articles in the form of "Extended Summary". The ISA will publish the Extended Summaries of the papers meant for presentation. The "Extended Summary" is to be submitted online as per the guidelines. It should contain title, name of authors with place of work (name of person making presentation along with his mailing address to be indicated as footnote), objectives of study, methodology, results and conclusion. The data, if necessary, may be restricted to one small table. References should be restricted to 2-3 only. **For more details visit www.ns.isa-india.in**

INVITED PAPERS

Keynote addresses and invited papers from eminent experts from India & abroad have been planned for presentation.

REGISTRATION FEE AND MODE OF PAYMENT

Delegates	Up to 14-8-2023	After 14-8-2023
Members (In service)	₹ 9,000/-	₹ 10,000/-
Members (Retired)	₹ 5,500/-	₹ 6,000/-
Non ISA members	₹ 11,000/-	₹ 12,500/-
RA/SRF/JRF/Students	₹ 5,500/-	₹ 6,000/-
Exhibitor/corporate Delegate	₹ 17,000/-	₹ 18,000/-
Accompanying Member	₹ 4000/-	₹ 4000/-

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BANK DETAILS	Name of Account: Indian Society of Agronomy	Bank Account No: 91212010007024 Type of Account: Saving
	Bank: CANARA BANK Beej Bhawan, Pusa Campus, New Delhi	IFSC: CNRB0019121 MICR: 110015429 Swift code: CNRBINBBBFD
PAYMENT MODE	◆ Through NEFT ◆ Through QR Code	◆ Through Payment gateway

DATES TO REMEMBER

- Last date for submission of Extended Summary 30 June 2023
- Last date of registration with normal fee 14 August 2023
- Date of Symposium 22-24 November 2023

OFFICIAL LANGUAGE:
The Official language of the symposium is English.

FIELD VISIT & POST SYMPOSIUM TOUR:
It is proposed to organize a field visit and tour to the places around Goa during the symposium.

CONTACT

ADDRESS FOR CORRESPONDENCE

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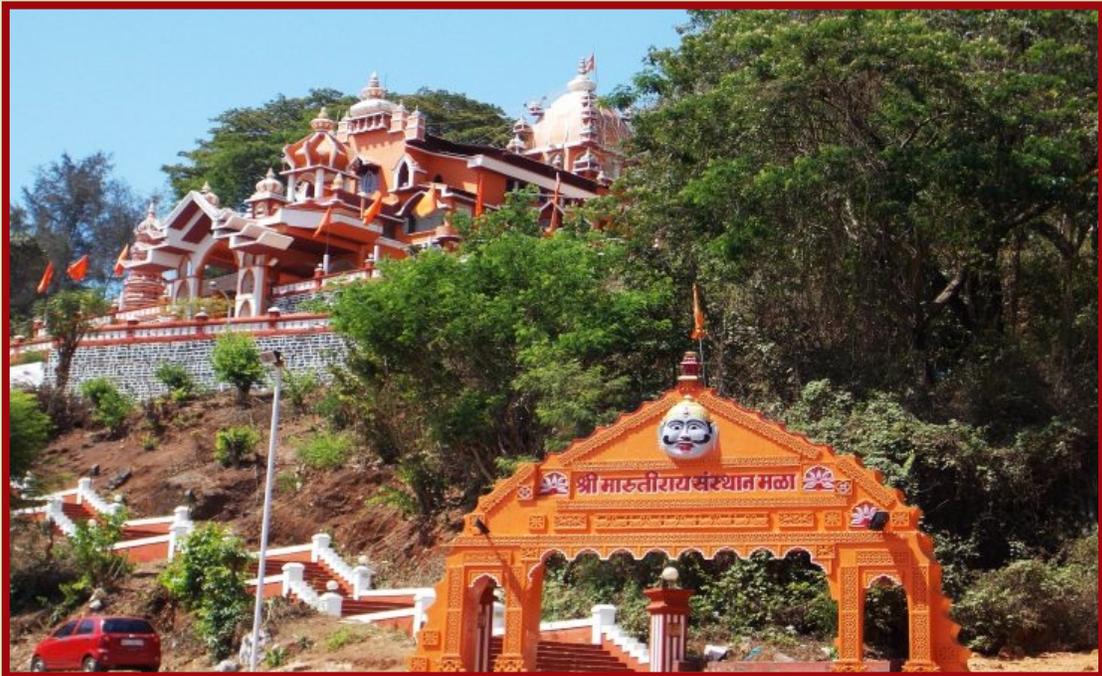
Dudhsagar Falls



Velsao Beach



Mangesh Temple, Goa



Shree Maruti