

SECOND 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



Organizer

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

Agriculture is the main stay for majority of the Indian population. The share of agriculture in the country's GDP is 18.3% 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 vulnerabilities are the biggest threats to agricultural sustainability and are severely impacting the livelihoods of the farmers. Low per capita land availability, limited resources, limited access to technologies, and finance for smallholders are the challenges for adaptation to climate change. Indian agriculture is facing climate change led second generation problems, such as decline in ground water, factor productivity, benefit: cost ratio, soil health, soil organic carbon and deterioration of natural resource base. These issues are threatening the food, water, nutrition, health and environmental security.

The pace of food production must be accelerated to achieve food and nutritional security, which is imperative for India as well as whole world to achieve the SDG of 'Zero hunger' 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 can be bridged. This is also a compelling need for sustainable food systems in face of climate change.

There is a vital role of science and technology driven innovations in achieving food and nutritional securities while making agriculture more efficient, competitive, profitable and sustainable.

As agriculture is sources, and the victim as well of climate change, hence the Climate-Smart Agronomy (CSA) is a holistic approach to ensure sustainability, resilience and mitigation in agriculture production system.

An integrated, evidence-based and transformative approach for addressing food and climate challenges requires coordinated actions at multiple levels, from research to policies and investments, and across private, public and civil society sectors to achieve the scale. The development and identification of appropriate location specific climate smart agronomy is the foremost step for agriculture sector to move onto climate smart pathways, which can effectively address climate, food security and poverty concerns in the short term and the livelihood and sustainability concerns in the long term.

The XXII 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, Ela, Goa, by The Indian Society of Agronomy (ISA). The proposed symposium will provide platform for interaction among the scientists, industrialists, policy makers, research scholars and farmers, working on various aspects of enhancing farmer's income and will come out with concrete recommendations for solving the emerging challenges of Indian Agriculture. The aim of the conference is to gather the 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 works on sustaining productivity in the era of climate change while managing the scarce natural resources.

The recommendations of the symposium will guide the researchers and policy planners in designing 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 and
9. Redesigning agronomy for knowledge and skill development

The proceedings of the National Symposium would be brought out and the recommendations will contribute in developing climate smart agronomic practices, resilient production systems which can contribute to enhanced farm income and sustainable livelihoods. We consider it our privileges to extend you a warm invitation for your active participation in the XXII Biennial National Symposium to accomplish its objectives. Looking forward to meet you in the Symposium at Goa.

Dr. Himanshu Pathak

Patron and Secretary, DARE & DG, ICAR
Krishi Bhawan, New Delhi

Dr. B.S. Mahapatra

President, The Indian Society of Agronomy and
Former Vice-Chancellor (BCKV, Mohanpur)



XXII BIENNIAL NATIONAL SYMPOSIUM IN BRIEF

CLOSING DATES

Receipt of Extended Summaries	:	September 10, 2023
Issue of Acceptance letters of papers	:	September 15, 2023
Receipt of full-length invited paper	:	September 15, 2023
Receipt of registration fee without late fee	:	September 20, 2023
Request for accommodation	:	September 20, 2023

XXII BIENNIAL NATIONAL SYMPOSIUM PROGRAMME

Registration (on-spot with late fee)	:	November 21–24, 2023
Inauguration	:	November 22, 2023
Symposia	:	November 22–24, 2023
Poster sessions	:	November 22–24, 2023
Plenary lecture	:	November 22–24, 2023
Concluding session	:	November 24, 2023
Field visit/Trip/Excursion tour	:	November 24, 2023

SYMPOSIUM VENUE

ICAR-CCARI, GOA

SYMPOSIUM THEME PRESENTATION FORMAT

- ◆ **Plenary Lecture:** World renowned scientists, policy makers and administrators shall be invited to deliver plenary lectures. They would present overview of the Symposium. The speakers will be requested to provide 3–4 pages write up of their talks along with brief biodata for inclusion in the pre-Symposium proceedings. Plenary lecture will be of 40–50 minutes duration.
- ◆ **Invited Lectures:** These Lectures would offer an insight into the Symposium. The technical committee constituted for each symposium will identify 5–6 speakers. Lecture of each speaker will be of 15–20 minutes duration followed by discussion. Lead speakers of the symposium will be requested to provide 4–5 pages write up of their talk and brief biodata for inclusion in the pre-Symposium proceedings.
- ◆ **Contributory papers:** This would provide an opportunity for oral presentation of research papers received/submitted for poster presentation. Limited number of papers will be selected by the committee for presentation on merit and speakers will be informed well in advance for making the presentation. The presentation will be of 7–8 minutes.
- ◆ **Posters presentation:** All the delegates will get an opportunity to present their contributory research papers through poster presentation. Poster presentation 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. Material for fixing the posters will be provided by the organizers. Guidelines for poster preparation have been given separately at <https://ns.isa-india.in>
- ◆ **Sponsor presentation:** Limited sponsor presentation will be arranged to provide an opportunity to the sponsors to share their views with the delegates.
- ◆ **Extended Summary:** Delegates will submit extended summaries of their research papers before the last date. These extended summaries will be published in pre-Symposium proceedings. The guidelines for preparation of extended summary are given at <https://ns.isa-india.in>. Delegates are requested to adhere to the guidelines while preparing the extended summary. Extended summaries which are not prepared according to the guidelines will not be accepted for publication.

CALL FOR EXTENDED SUMMARIES

The extended summaries of all the contributory papers will be published and provided to the delegates as soft copy during the Symposium. These must reach to the Organizing Secretary in the prescribed format latest by **September 10, 2023**. The guidelines for extended summary are given at <https://ns.isa-india.in>. Extended summary prepared without following the style and format and guidelines will not be accepted for publication.

Presidential Address and Dr. O.P. Gautam, Memorial Lecture

- Chair** : Dr. Himanshu Pathak, Secretary, DARE & DG, ICAR, New Delhi
Co-Chair : Dr. D.M. Hegde, Former Director, IOR, Hyderabad
Convener : Dr. J.V.N.S. Prasad, PC, AICRPDA, ICAR-CRIDA, Hyderabad

1. Organic farming and natural farming

- Chair** : Dr. B.R. Kamboj, VC, CCSHAU, Hisar
Co-Chair : Dr. S. Bhaskar, Former ADG (AAF&CC), ICAR, New Delhi
Dr. S.K. Sharma, ADG (HRM), ICAR-KAB II, New Delhi
Convener : Dr. H.B. Babalad, Dean, Organic Farming Research Centre, UAS, Dharwad

2. Precision input management

- Chair** : Dr. B.S. Mahapatra, President, ISA & Former VC, BCKV, Kalyani
Co-Chair : Dr. N.T. Yaduraju, Former Director, ICAR-DWR, Jabalpur
Dr. P.S. Brahmanand, Project Directorate, WTC, ICAR-IARI, New Delhi
Convener : Dr. S.K. Shukla, Director, UPCR, Shahjahanpur

3. System approaches for agro-ecosystem sustainability and integrated farming systems

- Chair** : Dr. A.K. Vyas, VC, Agriculture University, Kota
Co-Chair : Dr. D.K. Sharma, Former Director, ICAR-CCSRI, Karnal
Dr. Sunil Kumar, Director, ICAR-IIFSR, Modipuram
Convener : Dr. N. Ravisankar, PC, (IFS), ICAR-IIFSR, Modipuram

4. Machine learning and artificial intelligence in smart agronomic management

- Chair** : Dr. V. Praveen Rao, Former VC, PJTSAU, Hyderabad
Co-Chair : Dr. P.S. Pandey, VC, Dr. RPCAU, Pusa Samastipur, Bihar
Dr. Rajendra Prasad, Director, ICAR-IASRI, New Delhi
Convener : Dr. E.V.S. Prakasa Rao, Former Head, CIMAP, Bengaluru

5. Carbon management in agricultural production systems

- Chair** : Dr. S.K. Chaudhary, DDG (NRM), ICAR, New Delhi
Co-Chair : Dr. Rajbir Singh, ADG (AAF&CC), ICAR, New Delhi
Dr. V.K. Singh, Director, ICAR-CRIDA, Hyderabad
Convener : Dr. S.S. Rathore, Head, Division of Agronomy, ICAR-IARI, New Delhi

6. Millets (Shree Anna) for human and environmental health

- Chair** : Dr. Arun Kumar, VC, SKRAU, Bikaner
Co-Chair : Dr. Praveen Singh, Former VC, SKNAU, Jobner
Dr. Vilas Tonapi, Former Director, ICAR-IIMR, Hyderabad
Convener : Dr. G. Suresh, PS, ICAR-IOR, Hyderabad

7. Agro-ecological approaches for biotic and abiotic stress management

- Chair** : Dr. P.K. Ghosh, Director, ICAR-NIBSM, Raipur
Co-Chair : Dr. N.P. Singh, Former Director, ICAR-NIASM, Baramati
Dr. K. Sammi Reddy, Director, ICAR-NIASM, Baramati
Convener : Dr. G. Ravindrachary, Former PC, AICRPDA, ICAR-CRIDA, Hyderabad

8. Post-harvest management to achieve the farm-to-fork concept

- Chair** : Dr. S.N. Jha, DDG (Agril. Engineering), ICAR, New Delhi
Co-Chair : Dr. D.C. Joshi, Former VC, Agriculture University, Kota
Dr. Nachiket Kotwaliwale, Director, ICAR-CIPHET, Ludhiana
Convener : Dr. S.K. Sarangi, Principal Scientist, ICAR-CSSRI, RS, South 24 Parganas

9. Redesigning agronomy for knowledge and skill development

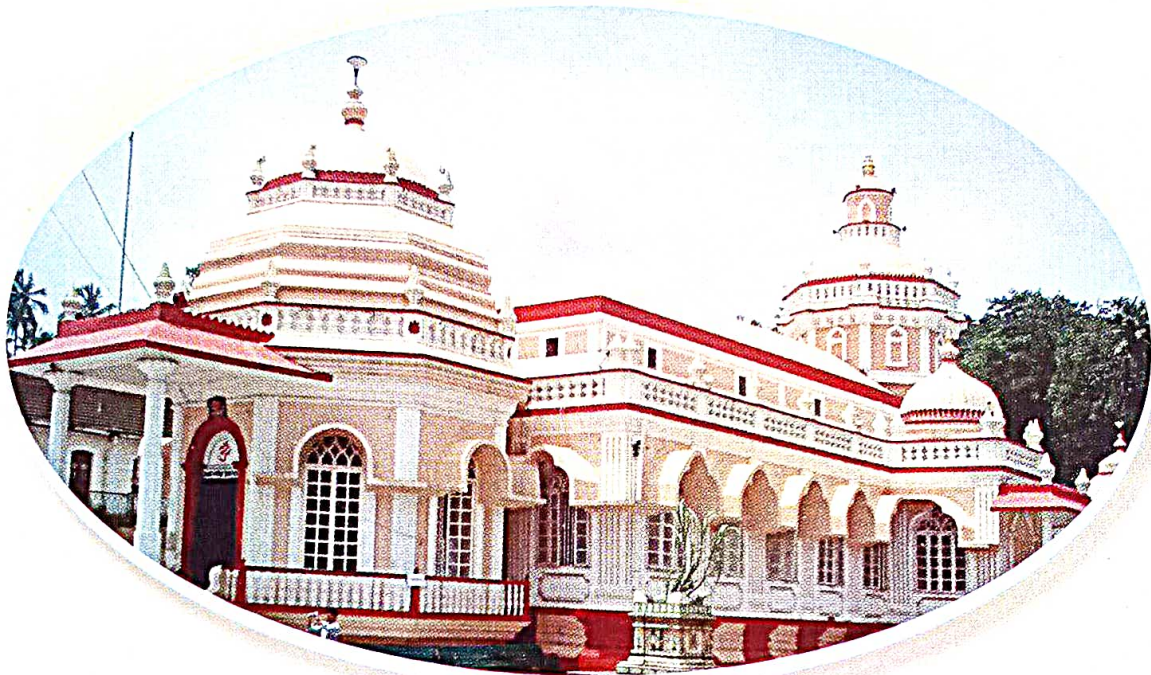
- Chair** : Dr. Arvind Kumar, Former VC, RLBCAU, Jhansi
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Dr. Kalyan Singh, Former Dean, BHU, Varanasi
Convener : Dr. Pratap Singh, Director of Research, Agriculture University, Kota

Plenary/Evening Lecture

- Chair : Dr. T.C. Jain, Former Senior Agriculturist, World Bank, Gurugram
Co-Chair : Dr. B. Gangwar, Former Director, ICAR-IIFSR, Meerut
: Dr. R.K. Rai, Former Professor and Head, Agronomy, ICAR-IARI, New Delhi
Convener : Dr. N.K. Jain, NC, NAHEP, ICAR, New Delhi

General/Valedictory Session

- Chair : Dr. Panjab Singh, Chancellor, RLBCAU, Jhansi, U.P.
Co-Chair : Dr. J.S. Mishra, Director, ICAR-DWR, Jabalpur, M.P.
: Dr. M.A. Shankar, Former Director Research, UAS, Bengaluru
Convener : Dr. D.S. Rana, Former Emeritus Scientist, ICAR-IARI, New Delhi



MANGESH TEMPLE, GOA




SHREE MARUTI

REGISTRATION

REGISTRATION FEE AND MODE OF PAYMENT

Catogory	Delegates	Up to 20-09-2023	After 20-09-2023
1.	ISA Members (In-service)	₹ 9,000/-	₹ 10,000/-
2.	ISA Members (Retired)	₹ 5,500/-	₹ 6,000/-
3.	Non-ISA members	₹ 11,000/-	₹ 12,500/-
4.	ISA members-RA/SRF/JRF/Students	₹ 5,500/-	₹ 6,000/-
5.	Non-ISA member RA/SRF/JRF/Students	₹ 7,000/-	₹ 7,500/-
6.	Exhibitor/Corporate Delegate	₹ 17,000/-	₹ 18,000/-
7.	Accompanying Member	₹ 4,000/-	₹ 4,500/-

BANK DETAILS	Name of Account holder: Indian Society of Agronomy	Bank Account No: 91212010007024 Type of Account: Saving Bank	 <p>INDIAN SOCIETY OF AGRONOMY 91212010007024@cnrb</p>
	Bank: CANARA BANK Beej Bhawan, Pusa Campus New Delhi 110 012, Ph. No. 011-25848197	IFSC: CNRB0019121 MICR: 110015429 Swift code: CNRBINBBBFD	
PAYMENT MODE	<ul style="list-style-type: none"> ◆ Through NEFT ◆ Throuth QR Code 	<ul style="list-style-type: none"> ◆ Through Credit Card 	

IMPORTANT POINTS

- ◆ XXII Biennial National Symposium will be open to registered participants only.
- ◆ The registration fee for the participant will cover participation in all scientific sessions, the proceedings and other soft and printed material of the symposium, welcome reception, lunch and dinner, tea/coffee during session breaks. It does not include charges for accommodation.
- ◆ For registration please visit the website www.isa-india.in and follow the guidelines.

DATES TO REMEMBER

- Last date for submission of Extended Summary: **September 10, 2023**
- Last date of registration with normal fee: **September 20, 2023**
- Date of Symposium: **November 22–24, 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.

CALL FOR PAPERS

Agronomists, scientists, students and other stakeholders of related disciplines are invited to participate and share their experiences in the symposium. They are requested to contribute articles for poster presentation in the form of "Extended Summary". The ISA will publish soft copy of the Extended Summaries of the papers meant for poster presentation. The "Extended Summary" may be submitted on ISA website: www.isa-india.in latest by September 10, 2023 as per the guidelines given.

INVITED PAPERS

Keynote addresses and lead papers from eminent experts have been planned for presentation.

EXHIBITION

An exhibition will be organized at the XXII Biennial National Symposium venue during 22–24 November, 2023 at ICAR-CCARI, Goa. The exhibition area will be the focal point of the Symposia 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 well in advance. Exhibitors will get 3 m × 3 m space within the Exhibition area, having three side wall, carpet, 1 table, 2 chairs, one standard electric power point, two spotlight and dust bin. The charges for the 3 m × 3 m space is ₹ 50,000. Space preference will be on the 'first come first served' basis.

SPONSORS

Organizers will be delighted to have sponsors in this National Symposium event for addressing the issues of "Climate Smart Agronomy for Resilient Production Systems and Livelihood Security". This Symposium is a unique opportunity to promote your organization on the stage. Sponsors of this symposium will get marketing exposure to extensive on-site visibility to post-event coverage. Sponsoring the symposium is the ideal way to reach a huge gathering of scientists, administrators, policy and decision makers and consumers. This will provide an excellent opportunity for cost effective marketing. In order to provide maximum flexibility to the sponsors, we have different sponsorship levels, detail of which along with other information is available at the ISA website: <https://ns.isa-india.in>. Sponsors may contact the organizers to negotiate various combinations in order to maximize their opportunities.

Levels of sponsorship to provide maximum flexibility to sponsors

Category	Contribution
Diamond sponsor	₹ 4,00,000+
Gold sponsor	₹ 3,00,000+
Silver sponsor	₹ 2,00,000+

Package benefits to various categories of sponsors

Standard benefit	Diamond	Gold	Silver
Time slot in Technical session	10-15 minutes	–	–
Advertisement/space in Souvenir	Full page	Full page	Half page
Opportunity to insert 1–2 pages of promotional write-up and photo in registration kit	Yes	Yes	Yes
Logo on sponsorship signage	Yes	Yes	Yes
Acknowledgement in Souvenir and symposium proceedings	Yes	Yes	Yes
Thank you, recognition, at programme venue	Yes	Yes	Yes

ADVERTISEMENT

In Souvenir of the Symposium which will contain message from VIPs and articles from renowned scientists, policy makers and administrator have provision for advertisement by the companies. Souvenir is a very important publication of the Symposium and is usually kept by the delegates for long period and used as reference book. Interested Companies may contact the organizers for giving their advertisements. Space preference will be on first come first served basis.

The rate for exhibition + advertisement will be as follows:

Category	Contribution
Full page insertion (Coloured)	₹ 60,000
Half page insertion (Coloured)	₹ 30,000
Full page insertion + space for exhibition	₹ 80,000
Half page insertion + space for exhibition	₹ 70,000+

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- Chairman** : Dr. Gopal R. Mahajan, Goa
Convener : Dr. Chaudhari Ganesh Vasudeo, Goa
: Dr. Mona Nagargade, New Delhi

Medical Assistance Committee

- Chairman** : Dr. V. Arunachalam, Goa
Convener : Dr. Admira Fernandes (Medical Officer), Goa

ACCOMMODATION DETAILS

The registration fee does not include accommodation charges. The accommodation facilities are available in two categories.

1. Guest House

Category	Tariff per night exclusive of taxes (₹)	
AC rooms	Double 2,500/-	Single 1,500/-
Non-AC rooms	1,500/-	800/-
Non-AC rooms (3 bedded)	-	500/- per bed

For accommodation in guest house please fill the requisition form available with accommodation committee. Please see the announcement about accommodation on ISA website <http://www.isa-india.in>.

2. Budget Hotels

The three private hotels (*all nearby within walking distance to each other*) are located at Dona Paula (25 minutes drive from the conference venue) which is a popular tourist attraction in proximity to the beach.

Hotel	Category	Occupancy	Tariff per night + taxes (₹)
Green Valley Beach Resort, Dona Paula info@greenvalleybeachresort@gmail.com Phone No. 07030387088	AC Double	Double/Single	4500/-
2. Sandalwood Hotel & Suites, Dona Paula info@sandalwoodgoa.com Phone No. 09552518755	AC Double	Double/Single	4500/-
3. Rendezvous Beach Resort, Dona Paula rendezvousresortgoa@gmail.com Phone No. 09322895804	AC Double	Double/Single	4500/-

The delegates who wish to stay at the above-mentioned hotels are requested to contact the hotels directly at the respective e-mail addresses/phone nos. mentioned above. Kindly mention the code **ISACON2023** in the email while booking to avail the above special tariffs. The bus shuttle service between the conference venue and accommodation will be provided only to the above-mentioned three hotels.

Notes: Limited accommodation is available in Hotels. Delegate may reserve these directly on first come first serve basis.

POST SYMPOSIUM TOUR

Post symposium paid tours will be organized to: **North Goa Tour:** Aguada Fort, Candolim Beach, Calangute Beach, Baga Beach, Anjuna Beach, Vagator Beach; **South Goa Tour:** Old Goa Church, Mangeshi Temple, Shantadurga Temple, Spice Garden, Dona Paula, Miramar Beach, Boat Cruise; **Dudhsagar Tour:** Dudhsagar Waterfall, Tamdi Surla Temple; **Donapaula Tour:** Dona Paula and Panaji (Duration: 4 hours); Pick & Drop: Panaji to Old Goa

For more details regarding Accommodation and Post Symposium tour program please see ISA website: www.ns.isa-inida.in

GENERAL INFORMATION

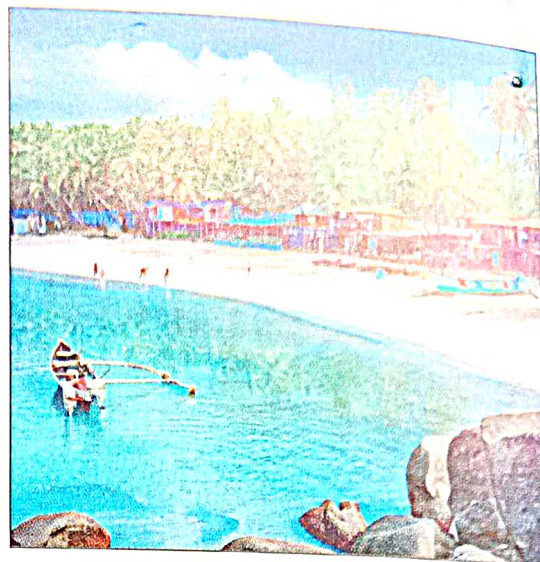
INSURANCE: The Organizing Committee assumes no liability for participants' personal accidents, sickness, and theft or property damage. Participants are requested to make their own arrangements with respect to health and travel insurance.

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

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. For more details please visit website of Goa Tourism Development Corporation Ltd. (<https://goa-tourism.com>)



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