

Final Announcement

XVI AGRICULTURAL SCIENCE CONGRESS & ASC EXPO

Transformation of Agri-Food Systems for
Achieving Sustainable Development Goals

10-13 October 2023 | Kochi, Kerala, India



Organised by
National Academy of Agricultural Sciences, New Delhi

Hosted by
ICAR-Central Marine Fisheries Research Institute, Kochi





XVI AGRICULTURAL SCIENCE CONGRESS & ASC EXPO

The Agricultural Science Congress (ASC), organised by the National Academy of Agricultural Sciences (NAAS), New Delhi, has a legacy of over two decades. The XVI edition of the ASC organised by NAAS will be hosted by the ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala from 10 to 13 October 2023. The venue of the ASC is Hotel Le Méridien, Kochi, Kerala. Considering the global and national importance of sustainability, the theme of the ASC has been chosen as 'Transformation of Agri-Food Systems for Achieving Sustainable Development Goals'.

The President NAAS and the Chairperson, Organising Committee, through this announcement, is requesting all stakeholders to join this mega event at Kochi. Please visit the website www.16asc2023.in for details and updates.



Dr Himanshu Pathak
Chairman XVI ASC
President NAAS
Secretary DARE & DG
ICAR, New Delhi

Established on 5th June 1990, the NAAS, New Delhi, is devoted to promoting agricultural research, education, knowledge pool, national and international partnerships, and science-society interface towards transforming agriculture and the related policies leading to comprehensive food, nutrition, livelihood, and ecology-secured and climate-smart India. I invite active participation of all researchers, policymakers, farmers, entrepreneurs and students to the Congress.

Conference

The XVI ASC will provide a vibrant platform for leading academicians, researchers, students, farmers and entrepreneurs to meet and share their ideas and experiences on ensuring food and nutritional security, climate action and mitigation, frontier and next-generation technologies, agriculture, horticulture, livestock, aquaculture and fisheries, nature-based and digital solutions to agriculture, precision farming, AI-based systems, policies and institutional interventions, quality education, information dissemination, youth and gender equity, international partnership, etc. to enable formulation of the way forward to transform India's agri-food system to meet the Sustainable Development Goals (SDGs) of the United Nations.

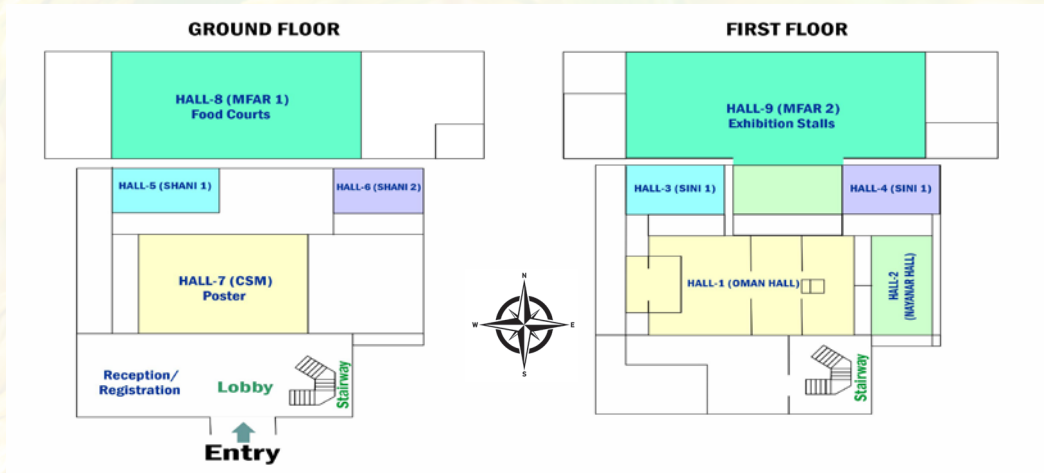
Venue

Hotel Le Méridien, Kochi is located on the National Highway 66, about 36 km from Kochi International Airport, 5 km from Ernakulam South Railway Station and 4.7 km from Vyttila Mobility Hub. It is about 6 km from the city center and within easy reach the city's landmarks like the heritage sites of Fort Kochi, Mattancherry, Willingdon Island, Bolgatty and Vypin Islands, major business hubs and popular shopping centers.



Hotel Le Méridien, Kochi

Floor plan



Events

- Plenary, Special and Invited Lectures by Eminent Scientists to discuss the most recent trends, innovations, concerns as well as challenges and solutions
- Technical Sessions on Thematic Areas
- Symposia and Panel Discussions
- Poster Presentations
- Farmer-Scientist Interaction
- Industry Interface
- Students Elocution Contest
- Agri-Expo
- NAAS Business Meeting



Abstract and Poster Presentations

The abstracts accepted under each of the thematic areas are to be presented as posters by the respective author(s). Abstracts received will be reviewed before acceptance. Each poster session will have a Convener who will present a summary of the concerned session, which will aid in the formulation of recommendations. Selected abstracts in all the thematic areas will be included in the Book of Abstracts, and the registered author will present the poster. The guidelines and template for Abstracts and Posters are available at www.16asc2023.in

Themes/Sub-Themes

1. Ensuring Food & Nutritional Security: Production, consumption and value addition

Convener: Dr M. S. Bamji

- Problem of Malnutrition in India
- Farm and Food-based Strategies for Combating Hidden Hunger
- Resource-Efficient, Environment-Friendly Production of Nutrient-dense Farm Foods in India

2. Climate Action for Sustainable Agri-Food Systems

Convener: Dr P. K. Aggarwal

3. Frontier Science and Emerging Genetic Technologies: Genome Breeding, Gene Editing

Convener: Prof. K. C. Bansal

- Advances in Genomics and CRISPR-Cas Systems for Crop Improvement
- Application of CRISPR-Cas Systems for Crop Improvement and Sustainable Development
- Genome Editing: IPR Policy for Product Development and Socio-economic Considerations

4. Livestock-based Transformation of Food Systems

Convener: Dr K. M. Bujarbaruah

- Towards livestock production sector transformation
- Livestock Products, Health and Support Sciences

5. Horticulture-based Transformation of Food Systems

Convener: Dr S.K. Singh

- Fruit and Plantation Crops
- Vegetable and Tuber Crops
- Spices, Ornamental and Medicinal Plants
- Nutraceuticals and Value Addition

6. Aquaculture and Fisheries-based Transformation of Food Systems

Convener: Dr J. K. Jena

- Aquaculture Systems and Fisheries
- Genetics, Health and Nutrition
- Processing, Value Addition, Quality Control and Social Sciences

7. Nature-based Solutions for Sustainable Agri-Food Systems

Convener: **Dr Anil K. Singh**

- Water Harvesting and Enhancing Water Productivity
- Soil Health and its Restoration
- Ensuring Nutritional Security through Natural Resource Management

8. Next Generation Technologies: Digital Agriculture, Precision Farming and AI-based systems

Convener: **Dr Rajender Parsad**

- Digital Agriculture
- Artificial Intelligence based Systems

9. Role of Policies and Institutions for Transforming Agri-food Systems

Convener: **Dr P K Joshi**

- Food System Transformation: Role of Policies and Institutions
- Diet Diversification and Food System Transformation
- Agri-Food system Transformation towards High-value Commodities

10. International Partnership for Research, Education and Development

Convener: **Prof. Rajeev K. Varshney**

Each session will have one Lead speaker, three Invited session speakers and one Young Scientist/ Research Scholar speaker who will be selected from the abstracts received for the session. About 160 speakers are expected to deliver lectures in different thematic areas.

Panel Discussion

No.	Panel Theme	Convener
1.	Quality Education in Transforming Agri-food Systems	Dr R. C. Agarwal
2.	Innovation in Information Dissemination	Dr Ashok K. Singh VC, RLBCAU
3.	Farming Systems for Enhancing Nutrition and Sustainability	Dr V. K. Singh

Symposia

No.	Symposium	Convener
1.	Coastal Agriculture: Livelihood and Sustainability	Dr Parveen Kumar
2.	IYM 2023: Mainstreaming Millets	Dr Tara Satyavathi
3.	Repurposing Agriculture for achieving SDGs	Dr P. S. Birthal
4.	Youth and Gender Equity for Meeting the SDGs	Dr Malavika Dadlani

Farmer-Scientist Interaction

Convener: **Dr Ashok K. Singh**, VC, RLBCAU, Jhansi

The event will provide ample opportunities for the participating farmers/ stakeholders to interact with Scientists in the specialised fields to ask questions, clear doubts and gather technology/packages of practices to make their activities more efficient.

Students Elocution Contest

Convener: **Dr Anupama Singh**, Joint Director (Education) & Dean, ICAR-IARI, New Delhi

A students' elocution contest on a topic of contemporary relevance will be

organised. Participants from State Agricultural Universities/Deemed to be Agricultural Universities/Central Agricultural Universities can apply for the contest.

Industry Interface

Convener: Dr S. N. Jha, DDG, Ag. Engineering, ICAR

The industry interface will provide a forum for scientists, farmers and academia to interact with agro-industry representatives to understand the issues, challenges and needs of the sector in order to strengthen collaborations.

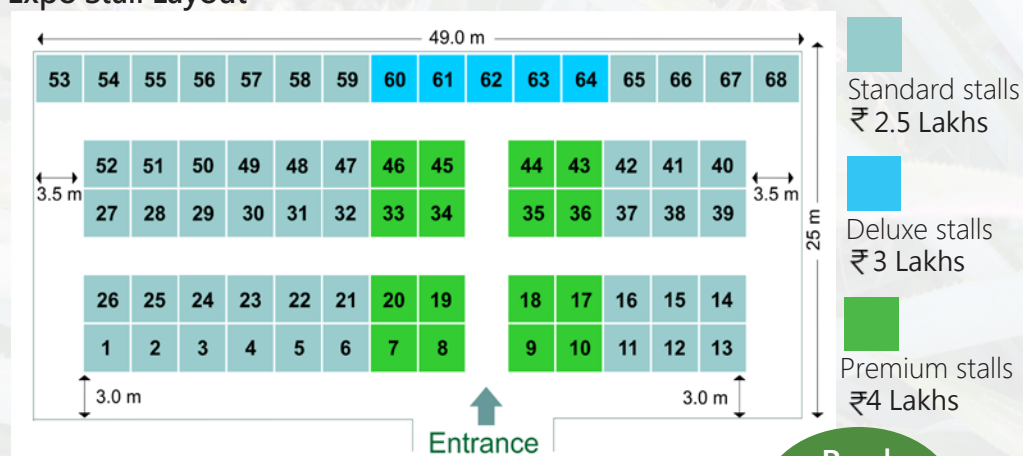
ASC Agri-Expo 2023

Convener: Dr A. Gopalakrishnan, Director, ICAR-CMFRI

A major attraction in the XVI ASC will be the Agri-Expo 2023, a mega event showcasing India's Agricultural Science and Technology. The expo will be a platform for exhibitors to showcase their products, services, technologies and strengths to Scientists, Policy makers, Regulators, Entrepreneurs, Business Representatives, Academicians, Researchers, Students and a large number of progressive as well as small-scale farmers across India. Expected participants include manufacturers of Agricultural Machinery/ Equipment, Fertilizers, Planting Materials, Agro Chemicals, Pesticides/Insecticides; Equipments for Soil/water testing, Irrigation & Water Management, Greenhouses, Precision Equipment for Farming, Climate Control, Storage and Packaging, Dairy, Poultry, Livestock and fishery products, Biotechnology/Tissue Culture Laboratories, Government Agencies/Departments, Banks & Insurance Services, Agri Consultants, IT Services, R&D Organisations and Allied Sectors.

Pre-fabricated stalls of a minimum unit area of 3 x 3 m will be provided, which can be opted in single or in multiples as needed. The layout and tariff for booking stalls are given below and can also be accessed from www.16asc2023.in

Expo Stall Layout



Tariff: Minimum unit area of a stall is 3x3 m

**Book
your space
now**

Bank details for remittance

Axis Bank Limited, Kochi Branch, 41/419, Ground Floor, Chicago Plaza, Rajaji Road, Ernakulam, Kerala-682035, Account Name: XVI ASC-CMFRI KOCHI, A/C No. 922020034429481, A/C. Type: Current, IFSC: UTIB0000081



Programme Layout & Daily Schedule

Day-1 10/10/2023 (Tuesday)	14.00-15.00		15.00-16.30		16.30-17.00		17.00-18.00		18.00-19.00		19.00-20.15		20.15-21.15					
	Registration		Inauguration (Oman Hall)		High Tea		Presidential Address (Oman Hall)		Dr. A. B. Joshi Memorial Lecture (Oman Hall)		Cultural Programme (Oman Hall)		Dinner (Hall-MFAR 1)					
Day-2 11/10/2023 (Wednesday)	09.00-10.00	10.00-10.15	10.15-10.45	10.45-12.45		12.45-13.45	13.45-15.45		15.45-16.00	16.00-16.30	16.30-18.30		18.30-19.30	19.45-21.15				
	Plenary Lect-1 (Oman Hall)	Tea	Theme 10-TS-1 (Oman Hall)	Theme	Venue	Lunch	Theme	Venue	Tea	Poster/ Expo	Theme	Venue	Plenary Lect-2 (Oman Hall)	Cultural Programme & Dinner				
				Theme 10-TS-1	Oman Hall		Panel Dis-1	Oman Hall			Symposia 1	Oman Hall						
				Theme 3-TS-3	Nayanar Hall		Theme 3-TS-2	Nayanar Hall			Theme 3-TS-1	Nayanar Hall						
				Theme 6-TS-1	Sini 1		Theme 6-TS-2	Sini 1			Theme 6-TS-3	Sini 1						
				Theme 1-TS-2	Sini 2		Theme 1-TS-1	Sini 2			Theme 1-TS-3	Sini 2						
				Symposia 4	Shani 1		Symposia 2	Shani 1			Symposia 2	Shani 1						
				Theme 7-TS-3	Shani 2		Theme 7-TS-1	Shani 2			Theme 7-TS-2	Shani 2						
				Poster (Theme: 2, 4, 8)	CSM Hall		Poster (Theme: 2, 4, 8)	CSM Hall			Poster (Theme: 5, 9)	CSM Hall						
				Farmers meet			Oman Hall	Theme 4-TS-1			Oman Hall	Tea			Poster/ Expo	Theme 4-TS-2	Oman Hall	Plenary Lect-4 (Oman Hall)
Students' prog.				Nayanar Hall	PPVFRA		Nayanar Hall	Industry meet			Nayanar Hall							
Theme 5-TS-1	Sini 1	Theme 5-TS-2	Sini 1	Theme 5-TS-3	Sini 1													
Theme 8-TS-1	Sini 2	Theme 8-TS-2	Sini 2	Panel Dis- 2	Sini 2													
Theme 9-TS-1	Shani 1	Theme 9-TS-2	Shani 1	Theme 9-TS-3	Shani 1													
Panel Dis- 3	Shani 2	Symposia 3	Shani 2	Tech. / Product Promotions	Shani 2													
Poster (Theme:6)	CSM Hall	Poster (Theme: 6)	CSM Hall	Poster (Theme: 1, 3, 7, 10)	CSM hall													
Plenary Lect-6		Oman Hall	Valedictory Function (Oman Hall)															
Theme 2-TS-1		Nayanar Hall																
Theme 5-TS-4		Sini 1																
MMP		Shani 1																
Tech. /Product Promotions		Shani 2																

*TS: Technical session

Advertisement and Sponsorship

The ASC also offer opportunities for the advertisement of your institution, company, product, services, etc. in the ASC Souvenir, which will be widely circulated nationally and internationally as hard copies and also on online platforms. The tariffs for advertising are as follows.

Outer back cover: Full page ₹ 3.0 lakhs; Inner side of front cover: Full Page: ₹ 2.0 lakhs; Inner side of back cover: Full Page: ₹ 2.0 lakhs; inside pages, Full page ₹ 1.5 lakhs and Half page ₹ 0.75 lakh.

Sponsorship

There will be ample opportunities for you to showcase your presence and reach through sponsorships. The different categories of sponsorships, tariff and benefits available for sponsors are as follows:

Diamond	Logo or name of the sponsor will be displayed in the backdrop of the inaugural and valedictory programmes, event banners, front cover of souvenir, book of abstracts and home page of congress website. A one-page profile of the sponsor will be given in the souvenir.	₹10 lakhs
Gold	Logo or name of the sponsor in the backdrop of the inaugural programme, souvenir and home page of the congress website.	₹8 lakhs
Silver	Logo or name of the sponsor in the backdrop, souvenir and book of abstracts	₹5 lakhs

Sponsoring sessions: Each Session **₹10 lakhs** (Name of the sponsor will be announced; display banners shall be placed and details of session sponsors will be indicated in Souvenir.

Dinner/Lunch: Joint sponsorship (**₹5 lakhs each/day**) or in multiples (sponsor details will be displayed on all advantage locations in the entry and inside the dinner/ lunch hall; announcement in the events)

Side event: Those who want to take advantage of the mega event, can organise their side event (for 30 persons) as half-day event (**₹25 lakhs**, including hall, audiovisuals, lunch, session tea)

Important dates

Last date for submission of Abstracts : 10 September 2023

Acceptance of Abstracts : 15 September 2023

Regular registration closing date : 20 September 2023

Registration

International Participant	USD 250
International Student & Research Scholar	USD 150
International Accompanying Person	USD 150
National Participant	₹ 10000
National-Accompanying Person	₹ 5000
National-Student & Research Scholar	₹ 6000
Farmer	₹ 3000
On Spot	₹ 12000
Corporate	₹ 20000

Individual Registrations should be done Online

Cultural Programme

A cultural evening has been planned on the day of the inauguration and on second day to display the best of the diverse performing/fine arts of the country.

Local Travel/Accommodation

Local travel (Airport/Railway Station/Bus Stand/Venue) and accommodation shall be arranged by our assigned event management partner as per your eligibility or requirement on payment basis.

Those who require such assistance may contact Ms. Deepa by e-mail (stay@16asc2023.in) or by phone **+91-9446591804**.

October month being peak tourist season at Kochi, we request all participants to confirm and book your accommodation at the earliest

Conference secretariat

Dr A. Gopalakrishnan

Organizing Secretary and Director

ICAR-Central Marine Fisheries Research Institute(CMFRI)

Kochi-682 018

Website: www.16asc2023.in

Contact: E-mail: 16asc2023@gmail.com

Telephone: +91-484-2394867

Fax: +91-484-2394909; 2396685



National Steering Committee

Dr H. Pathak President NAAS, Secretary DARE & DG ICAR, Chairman XVI ASC

Dr T. Mohapatra Former DG ICAR & Past President NAAS, Co-Chairman, XVI ASC

Dr Panjab Singh Former DG ICAR & Former President NAAS

Dr R. S. Paroda Chairman TAAS, Former DG ICAR & Former President, NAAS

Dr R. B. Singh Former Chancellor CAU & Former President NAAS

Dr. Mangala Rai Former DG ICAR & Former President NAAS

Dr S. Ayyappan Former DG ICAR & Former President NAAS

Dr. Ramesh Chand Member NITI Aayog

Dr C. D. Mayee Former Chairman ASRB & Former Vice-President NAAS

Dr A. K. Srivastava Former Chairman ASRB & Former Vice President NAAS

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Dr P. K. Ghosh Director ICAR-NIBSM, Raipur

Dr Sujay Rakshit Director ICAR-IIAB, Ranchi

Dr K. Sammi Reddy Director ICAR-NIASM, Baramati

Prof. Ajay Kumar Sood Principal Scientific Adviser, Govt. of India

Shri Manoj Ahuja Secretary DA&FW, Govt. of India

Dr N. Kalaiselvi Secretary DSIR, Govt. of India & DG CSIR

Dr Rajesh S. Gokhale Secretary DBT, Govt. of India

Dr S. Chandrasekhar Secretary DST, Govt. of India

Dr A. K. Mishra VC CAU, Imphal

Dr Ashok K. Singh VC RLBCAU, Jhansi

Dr P. S. Pandey VC RPCAU, Samastipur

Dr. Rajiv Bahl Secretary DHR, Govt. of India & DG ICMR

Shri Rajesh Kumar Singh Secretary DAHD, Govt. of India

Smt. Anita Praveen Secretary FPI, Govt. of India

Dr Hebbbar K. B. Director ICAR-CPCRI, Kasaragod

Dr G. Byju Director ICAR-CTCRI, Thiruvananthapuram

Dr R. Dinesh Director ICAR-IISR, Kozhikode

Dr B. Ashok IAS VC KAU, Thrissur

Dr M. Rosalind George VC KUFOS, Kochi

Prof. (Dr.) M.R. Saseendranath VC KVASU, Wayanad

Dr George Ninan Director ICAR-CIFT, Kochi & Co-Organising Secretary XVI ASC

Dr A. Gopalakrishnan Director CMFRI Kochi & Organising Secretary XVI ASC



Dr A. Gopalakrishnan
Organising Secretary
XVI ASC and Director
ICAR-CMFRI, Kochi

CMFRI, twice adjudged as the best ICAR Institute is well known and has organised several mega national and international events in the past. Our team, in collaboration with other sister Institutions, is taking all efforts to make this event a grand success. We are in touch with renowned speakers and presenters, besides making our best arrangements for your comfortable stay at Kochi. Register and book your slot at the earliest. More details at www.16asc2023.in



Dr George Ninan
Co-Organising Secretary
XVI ASC and Director
ICAR-CIFT, Kochi

CIFT, thrice adjudged as the best ICAR Institute, is well known for R&D on fishing technologies and fish processing, and is a National Referral Laboratory. With our experience in organising a number of large national and international events in the past, we join hands with CMFRI to make the XVI Agricultural Science Congress a grand success. We also welcome you to Kochi for the deliberations and also to enjoy its natural beauty.



About Kochi

Kochi known as 'Queen of the Arabian Sea' deeply rooted in history, offers a blend of old-world charm and the convenience of modernity. The city is abounded by mesmerizing backwaters, estuaries, rivulets, small islands, coastal townships and hill stations. The Chinese fishing nets and enchanting sunsets are hallmarks of this destination. Visitors also get opportunity to enjoy the rich cultural heritage of Kerala, God's Own Country, and the traditional classical art forms like Kathakali, Mohiniyattam, Kalarippayattu, etc. Kochi also has beautiful monuments and a variety of linguistic and ethnic communities including natives, Jews, Konkanis, Gujaratis, Punjabis and so on, living in absolute harmony. For centuries, Kochi had been the main port city for the entire Indian Peninsula. Since the 14th century, Kochi has had shipping from Asian and European countries. The traders and travellers from across the globe were whole heartedly welcomed, which greatly helped in its growth into a cosmopolitan city. Visitors can also enjoy traditional as well as speciality cuisines from all over the world, from a large number of popular eateries and restaurants dotting all over the city.

Important Local Contacts

Phone No.

Dr A. Gopalakrishnan, Director, CMFRI and Org. Secretary & Convener	9847115515
Dr George Ninan, Director CIFT & Co-Org. Secretary	9447414011
Dr V. V. R. Suresh, Principal Scientist and Head, CMFRI & Co-Org. Secretary	9830108768
Dr Bobby Ignatius, Principal Scientist, CMFRI & Co-Convener	9446739731
Dr Rekha J. Nair, Principal Scientist, CMFRI & Co-Convener	9446415736
Dr Nikita Gopal, Principal Scientist and Head, CIFT & Co-Convener	9447091328
Dr R. Ratheesh Kumar, Scientist, CMFRI & Co-Convener	7977153409
Dr Pratibha Rohit, Principal Scientist and HoRC, CMFRI & Chairperson, Reception	9916129255
Dr Kajal Chakraborty, Principal Scientist and Head, CMFRI & Chairperson, Student coordination	9446418432
Dr T. M. Najmudeen, Principal Scientist, CMFRI & Chairperson, Transport and Accommodation	9447233910
Dr Somy Kuriakose, Principal Scientist, CMFRI & Chairperson, Registration	9446375363
Dr K. S. Sobhana, Principal Scientist, CMFRI & Chairperson, Abstract & Publication	9037423360
Dr N.K. Sanil, Principal Scientist, CMFRI & Chairperson, Hall management	9249869305
Dr Geetha Sasikumar, Principal Scientist, CMFRI & Chairperson, Technical Sessions	9448163651
Dr P. Laxmilatha, Principal Scientist, CMFRI & Chairperson, Poster Sessions	9446473096
Dr Vipinkumar. V. P., Principal Scientist, CMFRI & Chairperson, Exhibition/Trade Expo	9048540766
Dr Shinoj Subramannian, Principal Scientist and Head, KVK & Chairperson, Farmer Sci. Interaction	9061120666
Dr Shyam S Salim, Principal Scientist, CMFRI & Chairperson, Industry Interface	9746885361



Congress Secretariat

ICAR-Central Marine Fisheries Research Institute

P.B. No. 1603, Ernakulam North P.O., Kochi 682 018, Kerala, India.

Telephone: +91-484-2394867, Fax: +91-484-2394909, 2396685

E-mail: 16asc2023@gmail.com, Website: www.16asc2023.in