



One Day International Seminar On

Impact of Climate Change on Aquaculture

Hybrid Mode On Feb 21st 2026

Organized By Department Of Zoology



REPORT

GOVERNMENT COLLEGE

RAJAHMUNDRY, ANDHRA PRADESH | **AUTONOMOUS**

ISO - 21001 : 2018, ACCREDITED BY - NAAC - A+

AFFILIATED TO ADIKAVI NANNAYA UNIVERSITY

IMPACT OF CLIMATE CHANGE ON AQUACULTURE

Report of One Day International Seminar on
Impact of Climate Change on Aquaculture

21st February 2026



Organized by

Department of Zoology

Government College (A), Rajamahendravaram, A.P., India

-mail: zoologyinternationalseminar26@gmail.com



CHIEF PATRON
Dr. K. Narayana Bharat Gupta, IAS
Director APJCCO



SPECIAL PATRON
Dr. Chappidi Krishna,
Joint Director APJCCO



SPECIAL PATRON
Dr. P.V. Krishnaji,
RJD ZPH - I



PRINCIPAL
Dr. K. Ramachandra Rao R.K
Government College (A),
Rajahmundry



CONVENER
Dr. D. Sailaja
Lecturer in Zoology, GCRJY

ORGANIZING SECRETARY :
K. Durga Rao, HOD, Dept. of Zoology

CO-CONVENORS :

Dr. K. Babu, Lecturer in Zoology

Sri G. Ravi Teja, Lecturer in Zoology

Smt. K. Subhashini Devi, Lecturer in Zoology

Smt M. Vijaya Santhi, Lecturer in Zoology

ADVISORY COMMITTEE

Dr. Ch. Tulasi, Academic Guidance Officer (AGO), CCE, Govt. of AP

Syed Fakrunnisa Begum, Associate Professor, Govt. College for Women, Usteri

Dr. Kiran Kumar Pappu, Lecturer in Zoology, PR College, Kakirada

Dr. B. Charan Kumar, Scientist, Marine Ecology, Kerala

M. Vijay Kumar, Lecturer in Zoology, GDC, Kakkalur

Dr. A.A. Annapurna, IQAC Coordinator

Dr. Muralidhar P. Ande, Scientist ICAR-CIFE, Kakirada

Dr. A. Rajeswari, Academic Coordinator
Prof. K. Rameswari, Dept. of Zoology, USCT, ANNU, Rajahmundry

RESOURCE PERSONS



Latika Santhi
Scientist
Innovation Technology Center
Research Institute, Anna Maria College, Coonoor



Dr. Nalin SA
Scientist Project - Ecotourism Services and
Aquaculture Technology Centre for Coastal
Research Institute of Anna Maria College, Coonoor



Dr. D. Sridhar
Industrialist
Dr. Scientist ICRD Division
BMR Group



Prof. P. Vijaya Nirmala
Principal, UCST ANNU
Rajahmundry



Dr. T. SAMUEL DAVID RAJ
PRINCIPAL,
GOVERNMENT COLLEGE FOR WOMEN, USTERI

ORGANIZING COMMITTEE

◆ **Dr T. Kusuma Kumari**

◆ **Kum. Ch. Jyothi Kumari**

◆ **Kum. N. Vara Kumari**

◆ **Kum. Ch. D. B. Hema**

◆ **Sri T. Sai Satya Raghuvver**

◆ **Kum. B. Nividetha**

Contact

☎ +91 9441495728

email : zoologyinternationalseminar26@gmail.com



GCRJY
GOVERNMENT COLLEGE RAJAHMUNDRY



AUTONOMOUS - NAAC - A+
An autonomous institution since 2000, Rajahmundry A.P. - 533105
Estd. 1853, affiliated with Adikavi Nannaya University



Department of Zoology
International Seminar

On

Impact of Climate Change
on Aquaculture

Hybrid Mode

FEB 21st 2026

INSTITUTION PROFILE

Government College (A), Rajahmundry, established in 1853, is one of the oldest and most reputed institutions in Andhra Pradesh. Affiliated to Adikavi Nannaya University, it offers UG and PG programs across disciplines. The Zoology Department is known for its academic and research excellence.

DEPARTMENT PROFILE

The Zoology Department, established in 1953, offers UG and PG programs in Zoology and Aquaculture, including NEP-aligned Honours and skill-based certificate courses. It features well-equipped labs, a museum, aquaculture pond, health center, and vermicompost unit. The department is led by innovative, student-centric faculty.

SEMINAR OVERVIEW

This National Seminar highlights the impact of climate change on aquaculture, focusing on adaptation, mitigation, innovation, and policy. It also addresses related issues like pollution, disease, and habitat loss, promoting dialogue for sustainable aquaculture practices.

SEMINAR SUB-THEMES

- ◆ Climate Resilience in Aquaculture Systems
- ◆ Metagenomics, Microbial, Bioremediation & Biofloc Technology.
- ◆ Aquatic Flora, Phytoplanktons, Fluctuations due to climate change in Aquatic eco System
- ◆ Genetic improvement for climate resilience
- ◆ Green Chemistry for Aquatic Life
- ◆ Climate Smart Aquaculture and adaptations Strategies
- ◆ Policy and Governance in Aquaculture
- ◆ Technological Innovations and Mitigation Strategies
- ◆ Environmental Issues and Pollution Management
- ◆ Sustainable Aquaculture Models
- ◆ Role of Education and Research
- ◆ AI in Aquaculture

◆ Not Limited to the above topics

IMPORTANT DATES

- ◆ Last Date for Abstract Submission: February 18, 2026
- ◆ Last Date for Full paper : February 19, 2026
- ◆ Last Date for Registration: February 21, 2026

TARGET PARTICIPANTS

- ◆ Faculty & Researchers from Life Sciences, Environmental Sciences & Chemistry
- ◆ PG & PhD Scholars

- ◆ Aquaculture Professionals
- ◆ Policy Makers & NGOs
- ◆ Environmentalists

CALL FOR PAPERS

Original research papers, review articles, and case studies are invited on the seminar themes.

Authors are requested to submit an abstract (maximum 250 words) to zoologyinternationalseminar26@gmail.com

In Times New Roman Font with Font Size 12 pts 1.5 Line Spacing must be Submitted in .doc/.docx file with authors name Affiliation & corresponding author email ID by 19th Feb 2026

All Accepted paper after pre review would be published in the conference proceedings with ISSN number

AWARDS

- Best Paper Award
- Oral Presentation
- Poster Presentation
- Memento with Certificate of Appreciation

Note:

No Accommodation will be Provided

SEMINAR OBJECTIVES

Raise Awareness on Climate-Related Challenges in Aquaculture :Highlight the impact of climate change on aquaculture systems, including rising temperatures, extreme weather, and ocean acidification. The goal is to inform and sensitize stakeholders about the urgent need for climate resilience in aquaculture.

Explore Adaptive and Mitigation Strategies for Sustainability: Promote sustainable practices that help aquaculture adapt to changing climate conditions. This includes resilient species, improved water management, and eco-friendly farming techniques to ensure long-term viability.

REGISTRATION DETAILS

Faculty / Scientists Rs.500/-
Research Scholars Rs.300/- Students Rs.100/-

Note: Publication charges, if applicable, are to be borne by the individual author(s) separately.

Payment Details :
A/c :- 50100189369555
IFSC:-HDFC0000215



Registration Link : <https://forms.gle/k6QhGApB3KTGagZ4A>

Academic Cell, Government College,
(Autonomous), Rajahmundry

Proceedings of the Principal, Government College (Autonomous), Rajahmundry Present: Dr. Ramachandra R.K, M.Sc., Ph.D.

Rc. No. 70/GCRJY /Zoology/ International Seminar/ 2025-2026 dt. 16.02.2026

Sub: Department of Zoology - International Seminar on “**Impact of Climate Change on Aquaculture**”
- Allocation of 50% of expenditure from internal funds- Sanction Orders – Issued - Reg.

Ref: 1. Resolutions adopted in the Staff Council Meeting dated 21.01.2026

2. Office Note submitted by the Department of Zoology on 16.02.2026.

Order

As per the reference (1) and (2) cited, the Principal, Government College (Autonomous) Rajahmundry is pleased to accord sanction for the allocation of 50% of the expenditure i.e., Rs.70,000/- (Rupees Seventy Thousand only) from the internal funds of the college to the Department of Zoology towards organizing the International Seminar titled ***Impact of Climate Change on Aquaculture*** on 21.02.2026.

Conditions:

1. The sanctioned amount shall be utilized strictly for the purpose for which it is sanctioned.
2. Expenditure shall be incurred as per the approved budget and institutional financial rules.
3. Proper bills, vouchers, and supporting documents shall be maintained for audit purposes.
4. A Utilization Certificate along with a Statement of Expenditure shall be submitted within 30 days after completion of the seminar.
5. Any expenditure exceeding the sanctioned amount shall be met from registration fees, sponsorships, or other external sources.
6. A detailed report of the seminar including photographs, list of participants, and outcomes shall be submitted to the Office for record.



Principal
Government College (Autonomous) Rajahmundry

Copy to :

1. The Individuals
2. Coordinator, IQAC
3. Administrative Officer
4. File



One day International Seminar on Impact of Climate change on Aquaculture

Organized by Department of Zoology Dt:21-2-2026

PROGRAMME SHEET

- 🍪 Inviting guest on to the dais (10am)
- 🍪 Prayer song by P. Teja sri from M.Sc., Zoology student
- 🍪 Lighting of the lamp
- 🍪 Opening Remarks by Dr. Ramachandra RK garu, Principal GC(A), RJY
- 🍪 Insights about the seminar by convener Dr. D. Sailaja garu
- 🍪 Key note address by Prof. P. Vijaya Nirmala garu, Principal AKNU
- 🍪 Overview of the seminar by Sri K. Durga rao garu, HOD: ZOOLOGY
- 🍪 Felicitation to the members on the dais

TEA BREAK

- | | |
|---|---|
| 🍪 Technical session – I (11am – 12pm) | 🍪 Technical session – II (12am – 1PM) |
| 🍪 Introduction of Listen Sir
LISTEN, Scientist, International Senior
Technical manager, China | 🍪 Introduction of Sridhar sir
By Dr. D. Sridhar, Senior Scientist –
HCP Division BMR Group, India |

LUNCH

- | | |
|--|---|
| 🍪 Technical session – III (2pm – 3pm) | 🍪 Technical session – III (3pm – 4pm) |
| 🍪 Introduction of Dr. Naidu SA sir
By Dr. Naidu SA, Scientist, Ecosystem Services
and Accounting – National Centre for Coastal
Research Ministry of Earth Sciences, Chennai | 🍪 Introduction of Dr. T. Samuel David R
By Dr. T. Samuel David Raj, Principal, GD
Porumilla |

TEA BREAK

- 🍪 **Technical session – IV (3pm – 4pm)**
- 🍪 Introduction of Dr. T. Samuel David Raj
By Dr. T. Samuel David Raj, Principal, GDC, Porumilla
- 🍪 Vote of thanks by Convener Dr.D. Sailaja garu

ROOM - 7 Post lunch session Paper Presentation

- Judges -1. Dr. B. Nageswari – HOD Biotechnology Department
2. Dr. A. Srinivas Rao – HOD Botany Department
3. D: Gowri Naidu – BRS Coordinator, Lecturer in Physics

**International Seminar on
Impact of Climate Change on Aquaculture
21 February 2026**

S. No. | Name of the Activity | Page No.

1. Brief note on International Seminar
2. Participation metrics
3. Invitation letter
4. Flyer for International Seminar
5. Flyer release by Chairman of International Seminar
6. Newspaper clippings informing about the Seminar
7. E-Souvenir
8. Inviting on to the Dias
9. Program schedule for the day

Program Details:

- Google Meet link for the Seminar
- Welcoming the Chief Guest & other dignitaries
- Welcoming the guests onto the dais
- Lamp lighting ceremony (Jyoti Prajvalanam)
- Prayer by college students
- Opening remarks by dignitaries on the dais
- Release of Seminar proceedings (Souvenir)
- Felicitations to Chief Guest

Technical Sessions / Talks:

- Online lecture by Dr. Listen (China)
- Invited talk by Dr. S.A. Appalanaidu, Chennai
- Invited talk by Dr. Sridhar, Senior Scientist, BMR Group of Companies
- Invited talk by Dr. D. Samuel David Raj, Principal, Porumamilla, Cuddapah

Felicitations:

- Felicitations to Prof. Dr. P. Vijaya Nirmala
- Felicitations to Dr. D. Sridhar
- Felicitations to Dr. D. Samuel David Raj
- Felicitations to Ramachandra Rk .Principal
- Felicitations to convenor Dr.D.Sailaja
- Felicitations to Sri.K.Durga rao,HOD&Secretary

Presentations & Activities:

- Oral presentations by participants 2-4 Room -7
- Poster presentations by participants 2-4 Room-5
- Media coverage
- Distribution of certificates and prizes to the winner

Contents :

- 1. Introduction**
- 2. Objectives and Scope of the Seminar**
- 3. Journal Collaboration**
- 4. Organizing Committee of the Seminar**
- 5. Technical Report of the Seminar**
- 6. Seminar Participants**
- 7. Outcome of the Seminar**
- 8. Concrete Suggestions emerging from the Seminar**
- 9. Event Photographs**

Introduction :

The impact of Climate Change (CC) on all aspects of human activity has been at the forefront of political, social and intellectual debate for many years. The impact of CC on marine and freshwater capture fisheries has wide implications but in terms of the food fish capture fishery the main effect will be on fish populations and distribution . Aquaculture, being a controlled environment, may be better placed to adapt to Climate Change but where open ponds or marine environments are used the effects of Climate Change on water characteristics such as acidification oxygen availability, temperature, salinity and sea level must be addressed. Other impacts could be through changes in monsoon rain patterns and the impact of disease under new climatic conditions. Responses to Climate Change must of course always take into account the socio-economic importance of capture fisheries and aquaculture which provide livelihoods, income and food for very many people . The impact of Climate Change (CC) on all aspects of human activity has been at the forefront of political, social and intellectual debate for many years. The impact of CC on marine and freshwater capture fisheries has wide implications but in terms of the food fish capture fishery the main effect will be on fish populations and distribution . Climate change is a defining challenge for the global aquaculture sector, primarily because its production depends heavily on the biophysical conditions of aquatic environments. As the world's fastest-growing food production system, aquaculture now provides over 50% of the global fish supply for human consumption. However, shifting climatic patterns are disrupting this stability, threatening the food security and livelihoods of billions, particularly in developing regions like Asia, which accounts for over 90% of global production.

2. Objectives and Scope of the Seminar:

An International seminar on the *Impact of Climate Change on Aquaculture* was successfully conducted with the objective of addressing the growing challenges faced by the aquaculture sector due to changing climatic conditions. The seminar brought together scientists, researchers, policymakers, industry experts, and students from various countries to exchange knowledge, share research findings, and discuss sustainable solutions.

3. Journal Collaboration:

The College of Government College (A), Rajahmundry has started the Journal with ISSN number and opportunity was given to the Department of Zoology in Particular as it was initiated at that time. It was decided to approve the selected for publication only after it was reviewed. The selected papers of International Seminar after peer review process, will be published in the following journals.

In view of the journal launched by the college named Samshodh it was planned to publish some good reviewed journals. The Department of Computer Science has given an opportunity to the Department of Zoology for getting some papers to get published.

4. Organizing committee of the Seminar :

Convenor :

Dr D.Sailaja ,Lecturer in Zoology

Co -Convenor :

Smt M.VijaySanthi, Lecturer in Zoology

Organizing Secretary:

Sri K.Durga Rao, Head of the Department , Zoology

Organizing Committee Members :

1. Dr K.Babu
2. G.Ravi Teja
3. Smt K.Subashini Devi
4. Sri K.Raghu
5. Kum Ch.Durga Bhavani Hema
6. Kum Ch.Jyothi
7. B.Nivedhitha

Technical report of the Seminar

On 21st February, 2026, the Department of Zoology has organized ‘One Day International Seminar on’ Impact of Climate Change on Aquaculture’ on Hybrid mode by the Department of Zoology and Aquaculture in Dr. B. R. Ambedkar Seminar Hall, Government College Autonomous, Rajahmundry.

At the outset, the organizing team whole heartedly render their gratitude to the Commissioner of Collegiate Education, AP, Sri Dr Narayan Bharat Gupta IAS Garu, Sri Ch .Krishna Garu ,Joint Director of Education and Sri Krishnaji ,Regional Joint Director of Education for encouraging to conduct the program and for issuing On Duty proceedings for the participants and I am thankful to the Principal Dr. Ramachandra R K Garu for granting permission and motivating the team to achieve this success. This International event would not have achieved such a great applause without the cooperation of all the teaching and non-teaching staff members of the college in general and members of the Department of Zoology in particular. Head of the Department of Zoology Sri K. Durga Rao acted as Organizing Secretary and Dr. Sailaja, Lecturer in Zoology acted as the Convenor and Smt Vijayanthi Lecturer in Zoology acted as Co-Convenor of this Seminar. The decision to conduct this program was taken in the departmental meeting no. and , held on 16-08-2023 & 17-08-2023.

International Seminar started with the ‘dwajaroohanam’, i.e., release of flyer on - 02 -26 by Principal sir in the presence of faculty members in the board room of the college. On 21st of February 26 International Seminar in Zoology was organized for which more than a couple of hundred participants took part (242 both online and offline). The resource persons were from across the spanning the countries like the China, making the program ‘International’ in its true spirit.

The Department of Zoology at Government College (Autonomous), Rajahmundry, under the esteemed leadership of Principal Dr. R. K. Ramachandra, successfully organized an International Seminar on the theme “Climate Change and Its Impact on Aquaculture” on 21- 02-2026. The seminar aimed to create awareness about the growing challenges posed by climate change to the aquaculture sector and to explore sustainable and innovative solutions for the future.

The Convenor and the Faculty members were highly thankful to Sri , G.N.V.Chandra Sekhar Reddy Garu and G.Venkat Reddy Garu, HIQ Pharma, Rajahmundry Asset for assisting the event by sponsoring to the tune of Rs. 20,000/- towards Seminar expenditure and also thankful to Prof. S.Prasanna Sri, Hon'ble Vice-chancellor, Adikavi Nannayya University, Rajamahendravaram, Prof. , Registrar, AKNU, and the Principal Smt Dr P.Vijaynirmala Garu Rajamahendravaram and all faculty members of the College for gracing the occasion and making it a grand success. The Convenor, Organizing Secretary and the Co -Convenor are equally thankful to all the resource persons who delivered their valuable talk on “ Impact of Climate Change on Aquaculture” , Department of Zoology , Government College (A), Rajahmundry .

The event commenced with the lightening of lamp and release of e-**Souvenir** an inaugural session highlighting the importance of aquaculture in global food security and the increasing threats posed by climate change, such as rising water temperatures, ocean acidification, extreme weather events, and changes in salinity. Keynote speakers emphasized the urgent need for adaptive strategies and resilient aquaculture practices.

Brief Introduction of the Speakers:

1. Key Note Address by P.Vijay Nirmala Garu : She is presently working as Professor in Zoology at Adikavi Nannayya University. She is the Principal for Science and Technology and Director for Board of Research Studies Rajahmundry. This keynote address synthesizes current knowledge on the impact of climate change on aquaculture, outlining the challenges, opportunities, and strategic pathways for a resilient future, The sustainability of aquaculture depends on immediate action to build resilience. We must move from static, traditional farming to dynamic, climate-ready aquaculture, combining scientific research with traditional knowledge to ensure food security for a growing population. She emphasised on technological innovation, Genetic enhancement and Smart Climate Aquaculture.
2. International Speaker : Lisen from China has completed his Post Graduation from Huazhong Agricultural University with specialization as Fisheries Development. His

research direction was from Aquatic Fishery -Solar Complementary Culture Model and Fish Symbiosis Culture Model and working as International Technical Manager ,Overseas Marketing Department ,Hinter Company ,China.

3. National Speaker : Dr. S. Appalanaidu is a marine ecologist specializing in ecosystem processes and climate change impacts in coastal and estuarine environments of India. His research integrates benthic ecology, biogeochemistry, and ecosystem functioning to understand how environmental stressors influence biodiversity and ecosystem services. He actively contributes to national and international programmes on biodiversity conservation, marine policy, and ecosystem-based management under climate change scenarios. Dr. Naidu completed his Ph.D. at CSIR–NIO, Visakhapatnam, in association with Adikavi Nannaya University, Rajahmundry. He joined the Ministry of Earth Sciences–National Centre for Coastal Research (MoES–NCCR), Chennai, as a Scientist (Project). He has published 28 peer-reviewed research articles reflecting his contributions to marine science. He was awarded the POGO–SCOR Fellowship (UK, 2019) and the Highly Cited Paper Award from the European Geosciences Union – Ocean Science (2023). He is a life member of the Ocean Society of India, Marine Biological Association of India, and Vijnana Bharati. He is currently involved in the Indo-Norwegian Project on Ecosystem Services and Accounting with NIVA, Norway.
4. Dr D.Sridhar He is presently working as Senior Scientist at HCP Division at BMR Group ,Bheem avaram and serving his research experience and versatile knowledge to the aquaculture stakeholders and Community .
5. Dr T.Samuel David Raj: He is presently working as Principal of Government Degree College, Porumamilla, YSR Kadapa District.He previously worked as Junior College Lecturer from 2002-2007 and Sub Registrar of Assurances in Registration Department and received best JKC Award (2013-15)was given by the Commissioner of Collegiate Education, A.P.

INVITED SPEAKERS BIODATA'S

1. KEY NOTE ADDRESS: Dr P. Vijay Nirmala



Dr. Pangi Vijaya Nirmala, M.Sc., B.Ed., M.Phil., Ph.D. Associate

Professor

**School of Life and Health Sciences, Adikavi Nannaya University, Rajahmundry,
Andhra Pradesh, India**

Dr. Pangi Vijaya Nirmala is an accomplished academican, researcher, and administrator with more than 25 years of experience in teaching, research, and academic leadership. She currently serves as Associate Professor, Principal of University College of Science & Technology, and Dean, Research and Development Cell at Adikavi Nannaya University. She has also held several prestigious academic and administrative positions, including Executive Council Member, Court Member of Central Universities, and SC/ST Cell Coordinator,

She obtained her Ph.D. in Zoology from Andhra University and has specialized in animal physiology, aquaculture nanotechnology, environmental biology, public health, and tribal studies. Her research interests focus on sustainable aquaculture, green nanotechnology, molecular biology, environmental monitoring, and community-based development.

Dr. Vijaya Nirmala has published over 42 research papers in reputed national and international journals, including *Scientific Reports*, *Results in Chemistry*, *Discover Applied Sciences*, and *BioNanoScience*. She has authored and edited 12 books and book chapters published by Elsevier and reputed academic publishers. She holds four patents in nanotechnology, biotechnology, and analytical instrumentation.

She has successfully completed three funded research projects and is currently leading and collaborating on multiple ongoing projects funded by ICSSR, RUSA, and other national agencies, with grants exceeding ₹1.5 crore. She has guided several Ph.D. scholars and actively mentors young researchers.

Dr. Vijaya Nirmala has received several prestigious honors, including the Dr. Sarvepalli Radhakrishnan Award (2025), Best Teacher Award (2017), Young Scientist Award (2015), and National Women Empowerment Award (2017). She also received recognition for her service during the COVID-19 pandemic.

She has delivered keynote lectures and invited talks at numerous international and national

conferences and has represented India at global academic forums, including in Indonesia. She serves as a reviewer and editorial board member for several international journals and is a life member of major professional bodies such as the Indian Science Congress and Indian Fisheries Association.

With strong commitment to academic excellence, innovation, and social responsibility, Dr. Pangi Vijaya Nirmala continues to contribute significantly to scientific research, higher education, and sustainable development at national and international levels.

2. INTERNATIONAL SPEAKER



Listen/Feng Lishen: yib870366@gmail.com Whatsapp number: +86-17820190295 Education

listen (Feng Lishen), aged 30, is a dedicated professional with a strong academic and technical background in aquaculture and bioengineering. He holds a Master's degree in Fisheries Development from Huazhong Agricultural University, where his research focused on innovative Aquatic Fishery–Solar Complementary Culture Models and Fish-Vegetable Symbiosis Culture Models. Prior to this, he completed his Bachelor's degree in Bioengineering at Fuzhou University, specializing in controllable ecological precision aquaculture technology. Professionally, he has served as an International Technical Manager in the Overseas Marketing Department at Hinter Company, where he applied his expertise in industrialized intensive aquaculture, pond aquaculture, and nutritional feed systems. Deeply passionate about advancing the aquaculture industry, he is committed to developing efficient, stable, and environmentally sustainable aquaculture models that can adapt to global climate change. His interests also extend to aquatic disease prevention and control, reflecting his holistic approach to improving aquatic farming systems. He can be contacted via email at yib870366@gmail.com or WhatsApp at +86-17820190295.



National Speaker Dr. Naidu SA

Scientist (Project) – Ecosystem Services and Accounting- Team-

National Centre for Coastal Research

Ministry of Earth Sciences

Chennai, Tamil Nadu, 600100

Tel: (work): 044 66783592; Email: snaidu@nccr.gov.in

Dr. S. Appalanaidu is a marine ecologist specializing in ecosystem processes and climate change impacts in coastal and estuarine environments of India. His research integrates benthic ecology, biogeochemistry, and ecosystem functioning to understand how environmental stressors influence biodiversity and ecosystem services. He actively contributes to national and international programmes on biodiversity conservation, marine policy, and ecosystem-based management under climate change scenarios. Dr. Naidu completed his Ph.D. at CSIR–NIO, Visakhapatnam, in association with Adikavi Nannaya University, Rajahmundry. He joined the Ministry of Earth Sciences–National Centre for Coastal Research (MoES–NCCR), Chennai, as a Scientist (Project). He has published 28 peer-reviewed research articles reflecting his contributions to marine science. He was awarded the POGO–SCOR Fellowship (UK, 2019) and the Highly Cited Paper Award from the European Geosciences Union – Ocean Science (2023). He is a life member of the Ocean Society of India, Marine Biological Association of India, and Vijnana Bharati.

He is currently involved in the Indo-Norwegian Project on Ecosystem Services and Accounting with NIVA, Norway.



DR D.Sridhar

Dr. Sridhar is an accomplished academician, researcher, and innovator in the field of Aquaculture and Aquatic Sciences, with over a decade of experience in teaching, research, and scientific leadership.

He completed his M.Sc. and Ph.D. from Aadikavi Nannayya University, where he specialized in Aquaculture. His doctoral research laid a strong foundation in Fish Diversity, Water quality Management aquatic animal health and sustainable aquaculture practices.

From 2017 to 2025, he served as an Assistant Professor in the Department of Aquaculture, contributing significantly to academic development, research mentorship, and curriculum design. He also served as: Convener and Member, Board of Studies (BoS), Aquaculture Faculty Associate in the Office of the Dean, Academic Affairs

He was twice shortlisted and attended the prestigious APPSC Group I Interview, reflecting his academic excellence and leadership capabilities.

At present, Dr. Sridhar is working as a Senior Scientist, HCP Division, BMR Group, India, where he is actively engaged in advanced research and product innovation for sustainable aquaculture systems.

Dr.Sridhar has an outstanding research portfolio that includes:

30 Research Papers in reputed national and international journals., 20 Book Chapters, 3 Academic Books and 3 Patents

Recently he filed for granted patent on a Natural Immunostimulant for Shrimp, aimed at enhancing disease resistance and sustainable shrimp farming

He has presented and participated in numerous national and international seminars and conferences, sharing insights on Sustainable aquaculture, aquatic animal health, and innovative aquaculture technologies.

Recipient of 3 prestigious awards recognizing excellence in research and academic contribution including, Young Scientist Award (2024) from Matrix Research Foundation shows his courage in research.

With this brief note now I would like to invite Dr. Sridhar, Sr. Scientist BMR to deliver his talk

Dr T.Samuel David Raj

Dr. T. Samuel David Raj

Principal, Government Degree College, Porumamilla YSR Kadapa District,
Andhra Pradesh

□ • haisamhai@yahoo.com | 8897992401

Professional Summary

Dedicated academician and administrator with over 18 years of experience in higher education. Expertise in Zoology (Physiology, Biotechnology), research supervision, and institutional leadership. Published several papers in national and international journals.

Academic Qualifications

- Ph.D. (Zoology – Physiology) – Andhra University
- M.Phil. (Zoology – Nutrition) – Andhra University (Distinction)
- M.Sc. (Zoology – Physiology) – Andhra University (Distinction)
- B.Sc. (C.B.Z.) – Andhra University (Distinction)

Professional Experience

- Principal, Govt. Degree College, Porumamilla
- Lecturer, Govt. Degree Colleges (2008–Present)
- Sub-Registrar, Registration Department (2007–2008)
- Junior Lecturer, Govt. Junior Colleges (2002–2007)

Research & Publications

- Published several research papers in national and international journals
- Ph.D.: Reproductive Behaviour of Mud Crab (*Scylla oceanica*)
- M.Phil.: Nutritive Value of Commercial Crustaceans
- Research areas include Physiology, Nutrition, Marine Biology, and Biotechnology

Research Guidance

Recognized Research Guide since 2014. Guided several scholars in Biotechnology, including M.Phil. and Ph.D. candidates. Successfully supervised M.Phil. research of P. Suman (2016) and B. Narasinga Rao (2017), and guided Ph.D. scholars P. Suman (2019), Y. Ramkumar (2023), T. Saroja (2023), and A. Srujana (2024).

Achievements

- Qualified UGC-NET (1995)
- Secured 7th Rank in M.Sc. Zoology (Andhra University)
- Achieved State Rank in AURCET (1995)
- Selected for multiple APPSC positions including Lecturer, Sub- Registrar, and Deputy Tahsildar
- Recipient of Best JKC Award (2013, 2015)

TECHNICAL SESSIONS REPORT

4. Technical Sessions Report :

The Department of Zoology at Government College (Autonomous), Rajahmundry, under the esteemed leadership of Principal Dr. R. K. Ramachandra, successfully organized an International Seminar on the theme “Climate Change and Its Impact on Aquaculture” on 21-02-2026. The seminar aimed to create awareness about the growing challenges posed by climate change to the aquaculture sector and to explore sustainable and innovative solutions for the future.

The event witnessed the participation of eminent scientists, academicians, researchers, and industry experts from India and abroad. The seminar served as a vibrant academic platform for exchange of ideas.

International speaker Lisen addressed on Ecological Future Aquaculture models on aquaculture practices and impact of climate on aquaculture posing on various technical issues. At every time adaptation of mitigation strategies pose a solution to the problem.

Dr S.A Naidu spoke on raising water temperatures ,Ocean acidification ,effect on ecosystem . Aquaculture holds the potential to combat climate change impacts on food security. However, its future depends on proactively adopting climate-resilient practices today to transition from a "vulnerable" industry to a "sustainable" one.

Dr. Sridhar delivered an insightful and thought-provoking session on the theme “Climate Change – What Has Changed?” The talk effectively highlighted the visible and measurable changes occurring in our environment due to climate change. He clearly explained the increase in water temperature, emphasizing its impact on aquatic ecosystems, marine biodiversity, and fisheries. The discussion helped participants understand how rising temperatures disturb ecological balance. The session also addressed unpredictable rainfall patterns, which are affecting agriculture, water availability, and livelihoods. The explanation connected global climate trends with local experiences, making the topic relatable. Dr. Sridhar elaborated on the increasing frequency of floods and droughts, showing how extreme weather events are becoming more common and severe. This part of the talk created awareness about the urgent need for preparedness and sustainable planning.

Another important issue discussed was salinity intrusion in coastal areas, particularly affecting coastal agriculture and drinking water sources. The speaker effectively explained how sea-level rise contributes to this growing concern. Overall, the session was informative, well-structured, and highly relevant to current environmental challenges. The

resource person presented scientific concepts in a simple and understandable manner, encouraging participants to think critically about climate action and sustainability.

The talk was impactful and created strong awareness about the need for collective responsibility in addressing climate change.

I specially thank Dr D,Sridhar Garu ,Senior Scientist for BMR Group of Companies ,Bheemavaram ,west Godavari District for finalizing the resource Persons and Dr Suneel Garu for computer technical assistance in particular made all the way to attend the seminar. And thankful to all the participants for their meaningful involvement in the conference.

Dr T.SAMUEL David Raj has delivered the role of AI in aquaculture with special emphasis on Climate monitoring by Predictive analysis and steps to tap the resources in an efficient manner for precision aqua farming and mobilising the resources in a judicious manner by combatting the diseases outbreak and increasing aqua productivity to meet the future demand. AI has a significant and growing environmental footprint, driven by energy- intensive data centers, high water consumption for cooling, and manufacturing emissions.

While AI helps optimize energy use and fight climate change, it currently risks increasing global carbon emissions. Training a single large model can emit hundreds of tons of carbon

The Technical sessions covered a wide range of topics, including climate-resilient fish species, sustainable feed development, water quality management, disease outbreaks linked to climate variability, and the use of modern technologies such as remote sensing and AI in aquaculture monitoring. Several case studies were presented, showcasing successful adaptation practices from different regions.

Panel discussions focused on policy frameworks, international collaboration, and the role of governments and organizations in supporting climate-smart aquaculture.

Participants stressed the importance of integrating traditional knowledge with scientific innovation to enhance sustainability.

The seminar concluded with recommendations to promote research, strengthen capacity building, encourage eco-friendly practices, and develop climate-resilient infrastructure in aquaculture. Overall, the seminar provided a valuable platform for dialogue and collaboration, contributing to a better understanding of how to mitigate and adapt to the impacts of climate change on aquaculture.

Paper presentations and Poster presentation was also conducted both on online and offline mode. The Winners were awarded with cash prize and mementos.

**SEMINAR
PARTICIPATION LIST**

Conclusion:

The seminar highlighted that while climate change poses significant challenges to aquaculture, proactive measures, innovation, and global cooperation can ensure the sustainability and growth of the sector.

1. SEMINAR PARTICIPATION LIST

offline participants

1	Dr	V GURUMURTHY	Associate professor	Government Degree College for Women, Madanapalle	Andhrapradesh	India	8919527265	online
2	Dr	Dr Kiran Kumar Pappu	Associate professor	Pithapur Rajah's Govt College (A), Kakinada	Andhra Pradesh	India	9494701772	online
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67	V. SEETHA RAMA RAJU	STUDENT	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapradesh	India	offline	Participation only
68	V. NAVADEEP	STUDENT	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapradesh	India	offline	Participation only
69	M. SAI CHARAN	STUDENT	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapradesh	India	offline	Participation only
70	K. SRINVAS	STUDENT	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapradesh	India	offline	Participation only
71	L. KARTHIK	STUDENT	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapradesh	India	offline	Participation only

7 2	V. CHETAN	STU DEN	ADITHYA DEGREE COLLEGE	Andhrapr adesh	Indi a	off lin	Partic ipatio
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		T	,KAKINADA			e	n only
7 3	CH. SURYA	STU DEN T	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapr adesh	Indi a	off lin e	Partic ipatio n only
7 4	T. VIDYA SRI	STU DEN T	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapr adesh	Indi a	off lin e	Partic ipatio n only
7 5	SK. NADIYA	STU DEN T	ADITHYA DEGREE COLLEGE ,KAKINADA	Andhrapr adesh	Indi a	off lin e	Partic ipatio n only

OUTCOME OF THE SEMINAR:

The key outcomes regarding the impact of climate change on aquaculture emphasize that while the sector is growing, negative effects currently outweigh the positive ones, necessitating urgent, climate-resilient adaptations. Climate change will have indirect impacts on aquaculture through changes in fisheries, which provide inputs such as feed and seed. These impacts will affect the suitability of areas for aquaculture species, the availability and prices of resources like fish protein for fish feed, and the production of aquafeed. The availability and prices of fishmeal and fish oil, key ingredients in aquafeed, will be affected by climate-driven changes in fisheries. Additionally, the increasing diversion of plant materials for biofuel production may lead to limited availability and high costs of aquafeed ingredients.

Concrete Suggestions emerging from the Seminar:

It focusses on enhancing resilience, diversifying production, and employing innovative technologies to mitigate risks like rising temperatures, ocean acidification, and extreme weather events. Key strategies include Implementing Integrated Multi-Trophic Aquaculture (IMTA), Selective Breeding for Climate Resilience, Utilizing Early Warning Systems (EWS), Developing Sustainable Feed Alternatives, Adopting Recirculating Aquaculture Systems (RAS), Diversifying Production and Livelihoods, Strengthening Infrastructure **and** Farm Design: and Emerging Trends & Adaptive Strategies and follow Policy decisions and Governance.

PHOTOGRAPH'S

8. Event Photographs.

Release of Brochure



P.R.COLLEGE,KAKINADA

ASD COLLEGE



SKVT COLLEGE,RAJAHMUNDRY



SKRCOLLEGE,RAJAHMUNDRY





Adikavi Nannaya University
,Rajamahendravaram

SEMINAR PHOTOGRAPHS
QR CODE-E Souvenir





One Day International Seminar On



Impact of Climate Change on Aquaculture

Hybrid Mode On Feb 21st 2026

Organized By Department Of Zoology



SOUVENIR

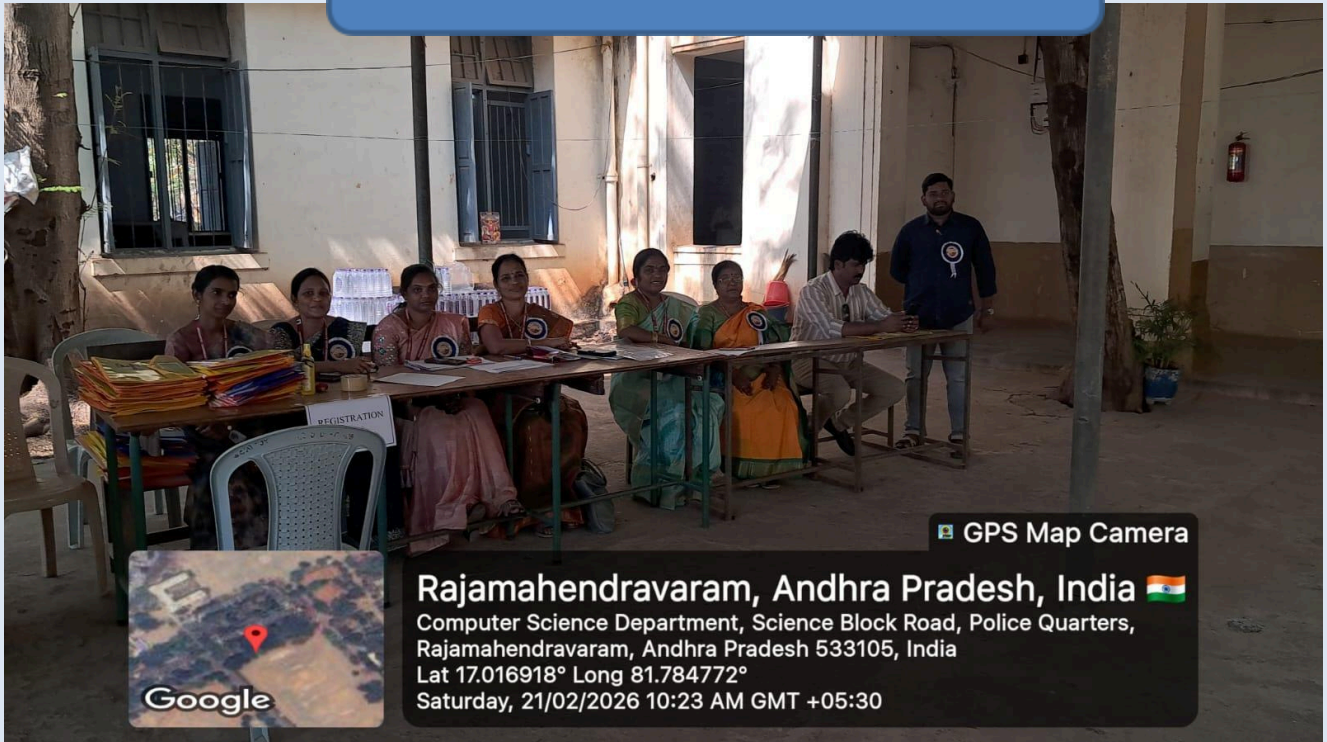
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RAJAHMUNDRY, ANDHRA PRADESH | **AUTONOMOUS**

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AFFILIATED TO ADIKAVI NANNAYA UNIVERSITY

REGISTRATION



DEPARTMENT OF ZOOLOGY REGISTRATION



INAGURUAL PHOTOS



PRAYER SONG



LIGHTING OF THE LAMP



Opening remarks by Dr. Ramachandra Rk garu,Principal Government College(A),Rjy



Keynote address by P.Vijaya Nirmala garu,Principal AKNU ,Rajamahendravaram



Seminar insights by Dr. K.Durga rao garu, Organising Secretary Government College (A), Rajamahendravaram



Opening of E Souvenir by the dignitaries

FELICITATION'S



Felicitation of P.Vijaya Nirmala garu,Principal AKNU ,Rajamahendravaram



Felicitation to Dr. Ramachandra Rk garu,Principal Government College(A),Rjy



Felicitation to Dr.D.Sridhar ,Scientist BMR group Rajahmundry.



Felicitation to Dr T.Samuel David Raj- Principal Porumamilla



Felicitation of Dr. K.Durga rao garu, Organising Secretary Government College (A), Rajahmundry



Felicitation of Dr. D.Sailaja garu Convenor Government College (A), Rajahmundry



Felicitation of.M. vijaya santhi co-covener Government College (A),Rajahmundry



Felicitation of Dr. K. Babu COE, Government College (A),Rajahmundry



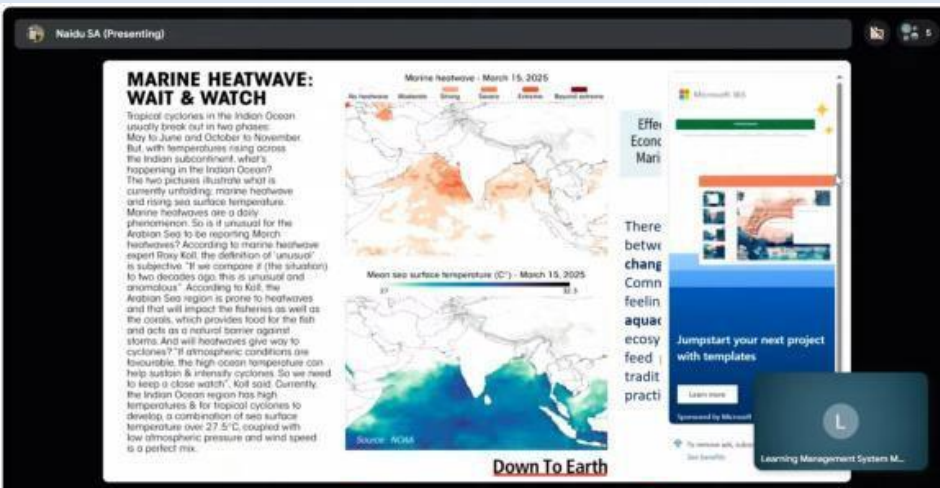
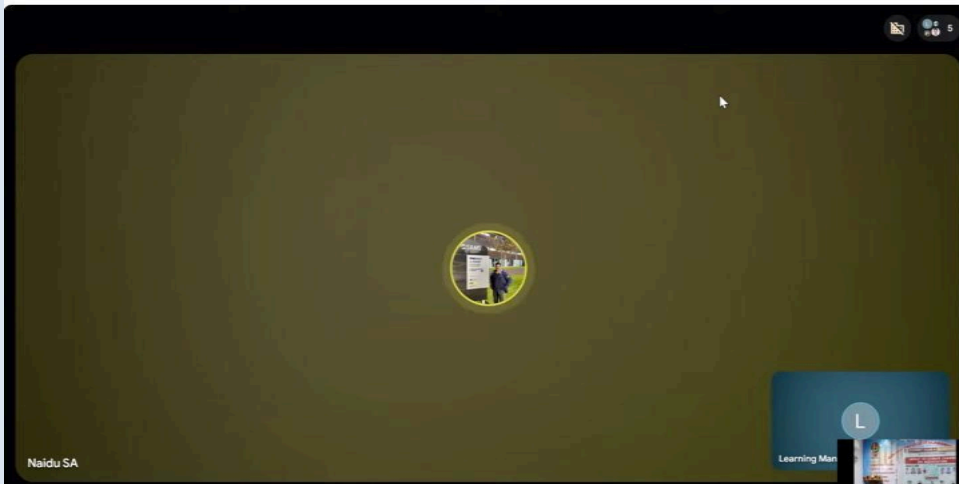
Felicitation of T. Sai Satya Raghuveer Government College (A), Rajahmundry

International Speaker on Online mode (Hybrid Mode)

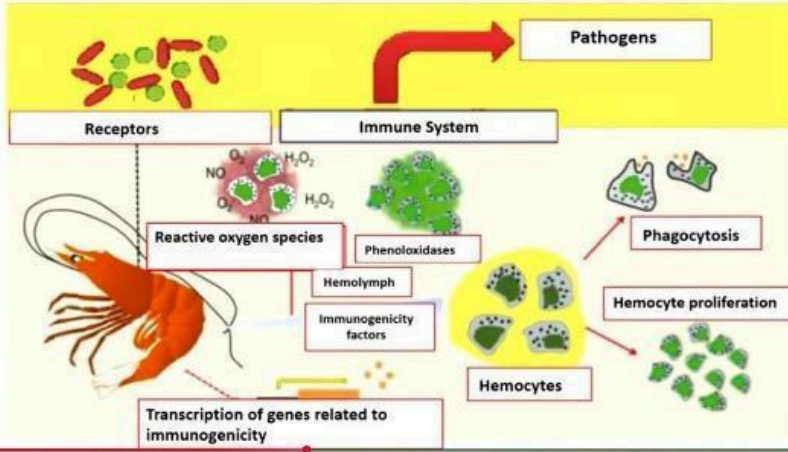
Lisen : China



S.Appala Naidu : TamilNadu

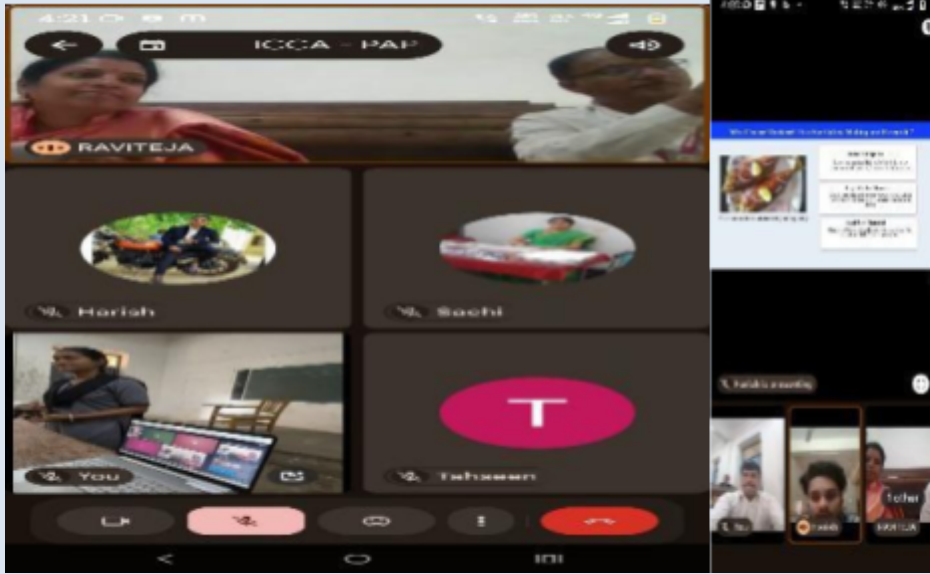


How probiotics act in shrimp – by direct inhibition of pathogens by modulation of the immune system of the shrimp and the production of inhibitory substances that could interact directly with pathogens, and are also capable of manipulating the microflora and the physico-chemical conditions of the pond ecosystem.



Dr T.Samuel David Raj- Principal Porumamilla





4:02

PAPER PRESENTATIONS



Why Choose Mackerel Fish For Cutlets Making and Research ?



Most Famous Dish: Mackerel Fry Or Bagda Fry

Demersal Species


Important marine fish landed in Gujarat by commercial trawlers, found up to 50m depth

High Market Demand

Good domestic and export market value, which contributes significantly to marine landings in India

Ideal Raw Material

Highly stable myofibrillar protein, excellent for surimi and fish Cutlets production

 Harish is presenting



3:47



113 KB/s VoNR 5G+



PRESENTATION





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File Home Tools View Design Transitions Animations Slide Show Record Review View Help

PROTECTED VIEW: Documents from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. [Disable Blocking](#)

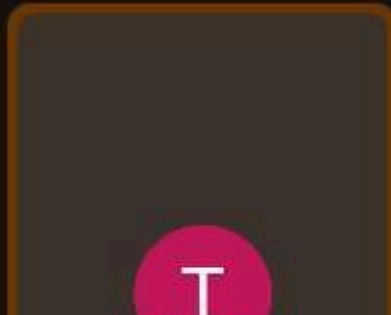
3) MAJOR ENVIRONMENTAL IMPACTS

1. Nutrient Pollution - Eutrophication
2. Water Contamination - Algal blooms
3. Habitat Destruction
4. Antibiotic Resistance
5. Carbon Footprint



2024-10-26 17:58

Tahseen is presenting



3:45



PER PRESENTATI



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1) INTRODUCTION

Aquaculture is the fastest-growing food production sector globally.

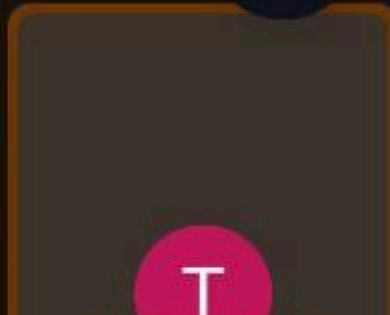
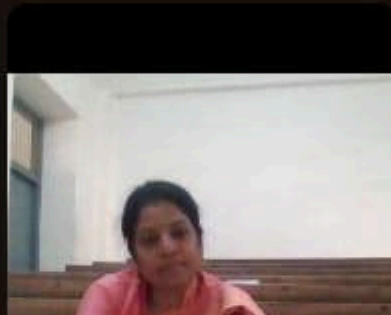
It supplies over 50% of Global fish consumption

Plays a major role in food security, employment, and economic growth.

However, rapid expansion has raised environmental concerns.

Global

Tahseen is presenting



4:21

259 KB/s VoNR 4G



ICCA - PAP



RAVITEJA



Harish



Sachi



POSTER PRESENTATION

15:38

Vo LTE 5G 50



ufd-qygf-vtm



ARTIFICIAL INTELLIGENCE IN AQUACULTURE

Madhur Garg

College of Fisheries Science, Veraval- 362265

gargmadhur22@gmail.com

You are sharing your entire screen. Stop Sharing

INTRODUCTION

Production exceeded 130.9 million tonnes... 2% of fish for human consumption. Demands smarter, data-driven

Intelligence (AI) into aquaculture — Precision Aquaculture — Labour-intensive monitoring to management.

of water quality, automated fish analysis, yield forecasting, and supply-chain optimization, reducing both operational costs and

Global aquaculture market is projected to grow from USD 5.2 billion by 2027 at a CAGR of 15%.

15% CAGR of aquaculture market (2022-2027)



AI MODEL

LSTM Neural Network for Long Short-Term water temperature prediction with RMSE = 0.05.

Convolutional Neural Network for image-based fish health classification achieving 94.7% accuracy.

Reinforcement Learning for dynamic feed scheduling in response to changing environmental conditions.

Satellite + IoT for integrated environmental monitoring using sensor arrays for water quality and temperature.

Graph Neural Networks for disease spread prediction and water quality monitoring.

Ensemble Models for climate-resilient aquaculture site selection under 8.5 scenarios.

Madhur is presenting

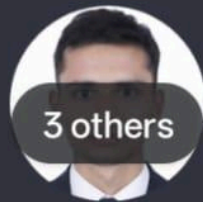
CASE STUDY- INDIA

Smart Farming Initiative - Andhra Pradesh, India (2022-Present)

Background: Norway (2018-2022)



You



3 others

Madhur



15:27



Vo LTE 5G 52



ufd-qygf-vtm



D+



Effects of Climate Change on Aquatic Flora and Fauna

Aarati Mupparathil Suseel*
*College of Fisheries Science, Veraval
**Kamdhenu University
Email: aarun2002@gmail.com

Major Guide: Dr. E. V. Bonchanga

WATER TEMPERATURE CHANGES

- Coral bleaching and reef degradation
- Altered zooplankton growth and reproduction
- Decline of temperature sensitive species
- Increased harmful algal blooms (HABs)

OCEAN ACIDIFICATION

- Reduced calcification in corals and shellfish
- Weakening of planktonic organisms (e.g. zooplankton)
- Disruption of marine food webs
- Threat to aquaculture industries

BIODIVERSITY LOSS & SPECIES SHIFTS

- Poleward and depth-wise migration of species
- Extinction of non-native species
- Local extinction of endemic flora and fauna
- Changed predator-prey interactions



IMPACTS ON AQUATIC FAUNA

- Reduced reproductive success
- Altered spawning seasons
- Decreased disease resistance
- Reduced fishery yields...

IMPACTS ON AQUATIC FLORA

- Decline in seagrass and kelp forests
- Reduced photosynthetic efficiency
- Changes in phytoplankton community structure
- Loss of primary productivity in some regions



Case Study: Climate Change Impacts on Ghazal Habitat in Indian Rivers:
Ghazal, a river flowing from the Himalayas to the Indian Ocean, is affected by the altered river flow, rising water temperatures, and changing monsoon patterns due to climate change.
Key impacts:
- Habitat degradation: Changes in river morphology and water levels reduce the extent of shallow, slow-flowing areas critical for Ghazal's biodiversity.
- Increased thermal stress: Rising water temperatures affect Ghazal's physiology and can reduce survival of eggs and juvenile individuals.
- Changed prey availability: Altered monsoon conditions influence food abundance - the primary food source for Ghazal - thereby threatening feeding success.

Case Study: Climate Change and Coral Bleaching in Earth in the Gulf of Mannar & Lakshadweep Islands (India):
Rising sea surface temperatures due to global warming are causing repeated coral bleaching events. Warmer water causes the symbiotic algae inside corals, leading to loss of color, reduced growth, and higher mortality. This has led to the systematic loss of coral reefs, which support thousands of fish and invertebrate species. Coral bleaching also reduces reef complexity, harming marine life (fish, sponges) and human livelihoods (tourism, fishing). This highlights the need for health workers, coastal protection, fisheries productivity, and tourism value.

Aarati is presenting



You



2 others



Aarati





PRIZE WINNERS

Poster Presentation

In the Poster Presentation category, **Mr. Omkar Yogesh Dani** secured the **First Prize** for his work on *“Environmental Impact Assessment and Auditing.”* of *College of Fisheries Science, Veraval, Gujarat.*

Ms. Valavala Aasrwitha Bhandhavaya was awarded the **Second Prize** for her presentation on *“Impact of Climate Change on Aquaculture.”* of *PR Government College (A), Rajahmundry*

Ms. Tejaswini also actively participated in the poster presentation session on Impact of Climate change and contributed to the academic discussions of Government College (A), Rajahmundry

Paper Presentation

In the Paper Presentation category, **Mr. Nayak Harishchandra Parshuram** won the **First Prize** for his research titled *“The Effect of Clove Oil, Cinnamon Oil, and Ginger Oil on the Shelf-life of Fish Cutlets Made from Indian Mackerel (Rastrelliger kanagurta) During Refrigerated Storage.”* of *College of Fisheries Science, Veraval, Gujarat*

Mr./Ms. V. Seetha Ramaraju secured the **Second Prize** for the presentation on *“Impact of Climate Change.”* of *Aditya fisheries college Kakinada*

Ms. M. Ramya Keerthana was awarded the **Third Prize** for her presentation on *“Biofloc technology.”*

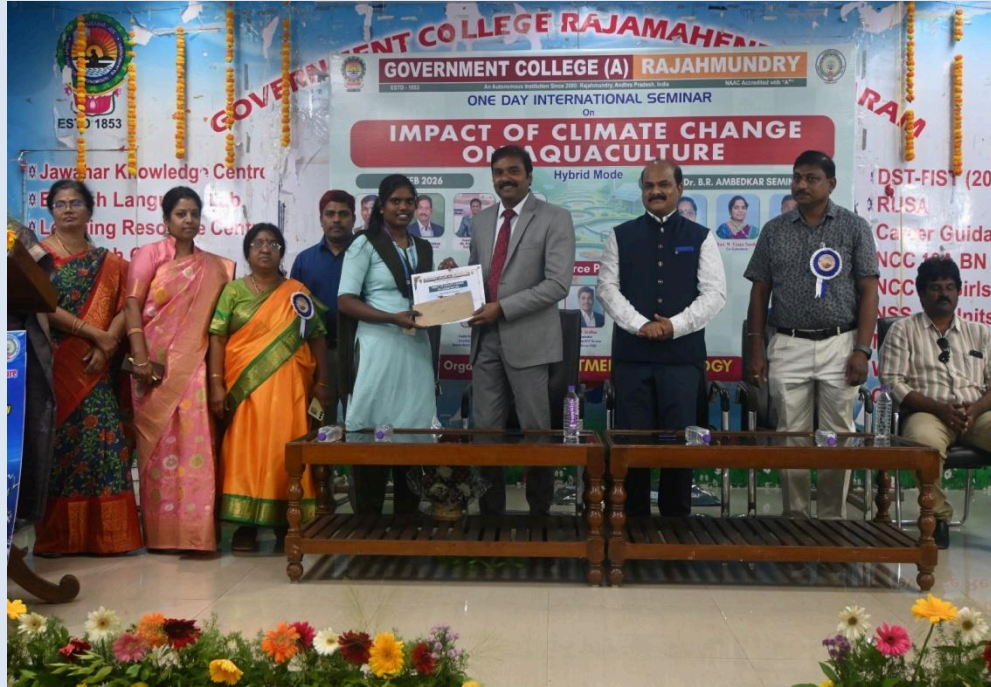
Cash Awards to Winners

Cash prizes were awarded to the winners in recognition of their outstanding performance in both Poster and Paper Presentation categories:

- **First Prize:** ₹1000/-
- **Second Prize:** ₹700/-
- **Third Prize:** ₹500/-

These awards were presented to encourage academic excellence and active participation among the students.

PRIZE DISTRIBUTION TO WINNERS



Ms. Tejaswini also actively participated in the poster presentation session on Impact of Climate change and contributed to the academic discussions of Government College (A),Rajahmundry



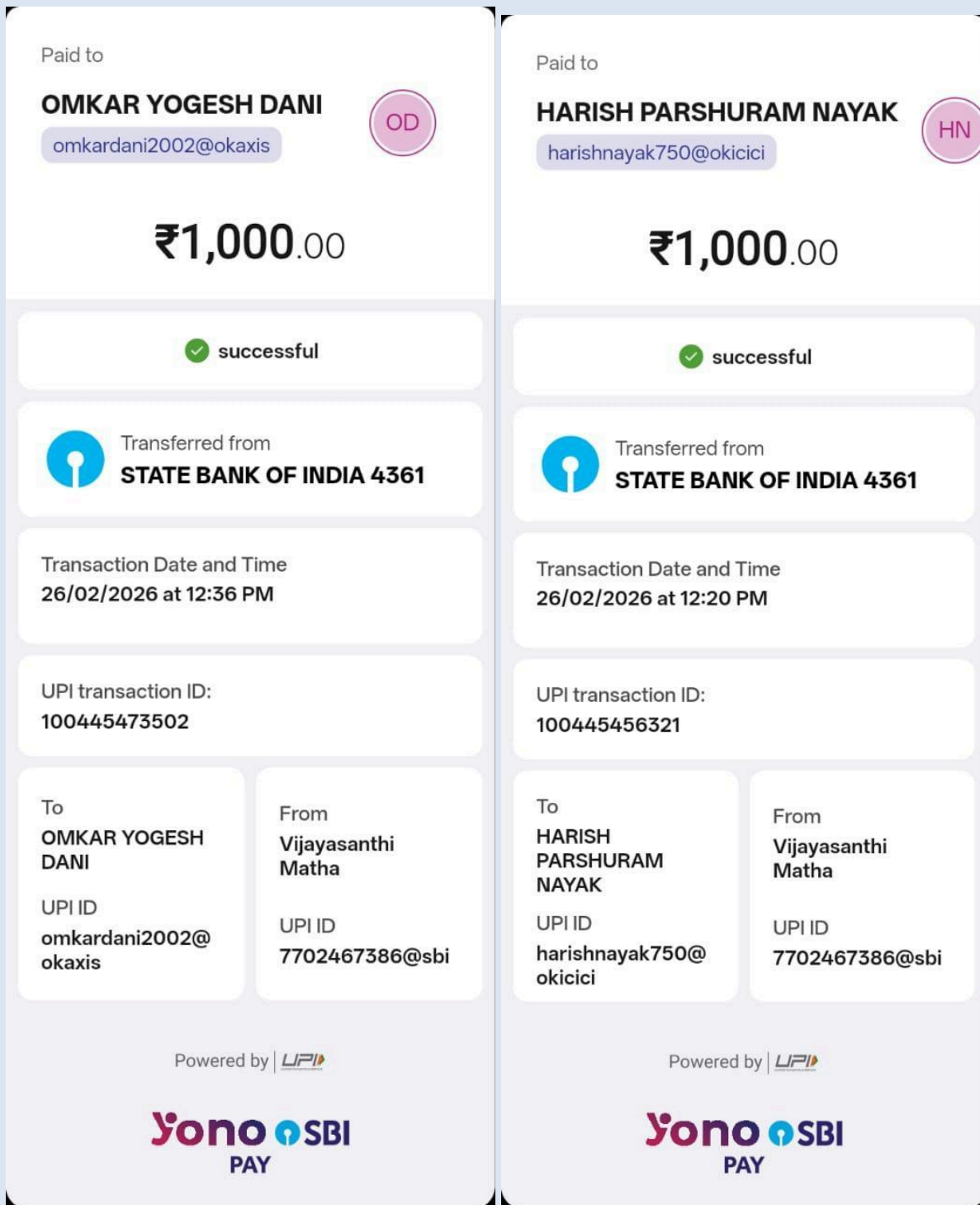
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Mr.V. Seetha Ramaraju secured the **Second Prize** for the presentation on “*Impact of Climate Change.*” of *Aditya fisheries college Kakinada*

Ms. M. Ramya Keerthana was awarded the **Third Prize** for her presentation on “*Biofloc technology.*”





In the Poster Presentation category, **Mr. Omkar Yogesh Dani** secured the **First Prize** for his work on “*Environmental Impact Assessment and Auditing.*” of College of Fisheries Science, Veraval, Gujarat.

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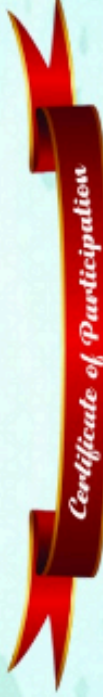


One Day International Seminar
On

IMPACT OF CLIMATE CHANGE ON AQUACULTURE

Organised by

DEPARTMENT OF ZOOLOGY



Certificate of Participation

This is to certify that Prof./Dr./Mr./Mrs.....
Research Scholar/Student/Lecturer inof.....
has participated/Presented a Paper / Poster Entitled on.....
.....One Day International Seminar in "IMPACT OF CLIMATE CHANGE ON
AQUACULTURE" held on 21st Feb, 2026.

Dr. D. Sailaja
Convenor

Sri K. Durga Rao
Organizing Secretary

Principal
Dr. Ramachandra R K
Govt. College(A), Rajahmundry

We sincerely thank our sponsor, HIQ Pharma, Rajahmundry, for their generous contribution of ₹20,000 towards the seminar. Your support plays a vital role in making this event a success, and we truly appreciate your commitment to promoting knowledge and collaboration.





A stall was arranged showcasing ornamental fisheries along with value-added products such as pickles. The display highlighted innovative practices in ornamental fish culture and a variety of locally prepared pickles, attracting significant interest from participants and visitors.

సాక్షి తూర్పుగోదావరి

ఆదివారం, 22 ఫిబ్రవరి, 2026

ఆర్ట్ కళాశాలలో అంతర్జాతీయ సెమినార్

కంబాలవెరువు(రాజమహేంద్రవరం): స్థానిక ప్రభుత్వ అటానమస్ కళాశాలలో ప్రెస్బిటేరియన్ డాక్టర్ రామచంద్ర ఆర్ట్ అభ్యర్థులలో జంతు శాస్త్ర విభాగం వారు ఆర్ట్ కలర్స్ పై వాతావరణ మార్పు దాని ప్రభావం అనే అంశంపై అంతర్జాతీయ సెమినార్ ను కనీసావరణ నిర్వహించారు. ఈ సందర్భము దేశ విదేశాల నుంచి ప్రముఖ శాస్త్రవేత్తలు పాల్గొని తమ విలువైన ప్రవచనాలతో అవగాహన కల్పించారు. శ్రీనా దేశానికి చెందిన శాస్త్రవేత్త డాక్టర్ లిస్సన్ ఆర్ఎస్ఎస్ బిల్బాలజీపై సమగ్రంగా వివరించారు. లొయ్యల సాగులో ఆరు నిక సాంకేతికత వినియోగం, ఉత్పాదకత పెంపు ఏ విధంగా పొందాలో తెలిపే మార్గాలపై అవగాహన కల్పించారు. సీనియర్ సైంటిస్ట్ డాక్టర్ శ్రీధర్ లొయ్యల సాగులో సహజ రోగనిరోధక శక్తిని పెం పొందించే పద్ధతులను వివరించారు. పర్యావరణ అనుకూల విదానాల ద్వారా ఆర్ట్ కలర్స్ పై అభివృద్ధి చేయవచ్చన్నారు. సైంటిస్ట్ డాక్టర్ ఎస్ఎ నాయుడు ఈరో సెస్టమ్ సర్వీసెస్ అండ్ ఆకౌంటింగ్ అంశంపై ప్రవచించి, తమిళనాడు సముద్ర పరిసరాల సమ తుల్యతను కాపాడాల్సిన అవసరాన్ని వివరించారు. డాక్టర్ పి.సామయ్యలే డేవిడ్ రాజ్ బర్లా ఎదానమీ ప్రాధాన్యతను వివరించి, సముద్ర వనరుల సుస్థిర వినియోగం ద్వారా అర్ధవార్షికోత్సవ సాధ్యమని తెలిపారు.



అంతర్జాతీయ సెమినార్ లో మాట్లాడుతున్న ప్రెస్బిటేరియన్ డాక్టర్ రామచంద్ర

కీనోత్ స్పెకల్ ప్రొఫెసర్ పి.విజయనిర్మల శ్రీమేట్ యార్జన్ పై సమగ్ర అవగాహన కల్పిస్తూ, వాతావరణ మార్పులను ఎదుర్కోడానికి విద్యాసంస్థలు తీసుకో వాల్సిన చర్యలను వివరించారు. ప్రొఫెసర్ రామచంద్ర రావు వాతావరణ మార్పుల వల్ల కలిగే ప్రతికూల ప్రభావాలను తెలిపారు. అంతర్జాతీయ సందర్భము కన్వీనర్ గా డాక్టర్ డి.శైలజ, కో కన్వీనర్ గా ఎం.వి జయశాంతి, అధ్యక్షులుగా సుశ్రవణిగా జంతు శాస్త్ర విభాగాధిపతి డాక్టర్ కె.దుర్గారావు, జంతు శాస్త్ర విభాగ అధ్యాపకులు, అధ్యాపకీతర సిబ్బంది, విద్యార్థులు పాల్గొన్నారు.

ఈనాడు తూర్పుగోదావరి

ఆదివారం ఫిబ్రవరి 22, 2026

5



సావనీర్ను ఆవిష్కరిస్తున్న ఆచార్య విజయనిర్మల,
ప్రిన్సిపల్ డాక్టర్ రామచంద్ర, ఇతర అధ్యాపకులు

పర్యావరణ అనుకూల విధానాలతో ఆక్వారంగం అభివృద్ధి

దేవీచౌక్: పర్యావరణ అనుకూల విధానాల ద్వారా ఆక్వారంగాన్ని అభివృద్ధి చేయవచ్చని వక్తలు పేర్కొన్నారు. శనివారం రాజమహేంద్రవరం ప్రభుత్వ ఆర్ట్స్ కళాశాల జంతుశాస్త్ర విభాగం ఆధ్వర్యంలో ఆక్వాకల్చర్పై వాతావరణ మార్పు, దాని ప్రభావం అంశంపై అంతర్జాతీయ సదస్సు జరిగింది. ఈ సందర్భంగా వక్తలు మాట్లాడుతూ సముద్ర వనరుల సుస్థిర వినియోగం ద్వారా ఆర్థికాభివృద్ధి సాధ్యమన్నారు. పోరుమామిళ్ల ప్రభుత్వ డిగ్రీ కళాశాల ప్రిన్సిపల్ డాక్టర్ పి. శామ్యూల్ డేవిడ్రాజ్, నన్నయ విశ్వవిద్యాలయం వైన్స్ విభాగం ప్రిన్సిపల్ ఆచార్య పి.విజయనిర్మల, ఆర్ట్స్ కళాశాల ప్రిన్సిపల్ డాక్టర్ రామచంద్ర ఆర్కే పాల్గొన్నారు.

Feedback form | International Seminar on Impact of Climate change on Aquaculture organized by Department of Zoology GC(A)-Hybrid Mode

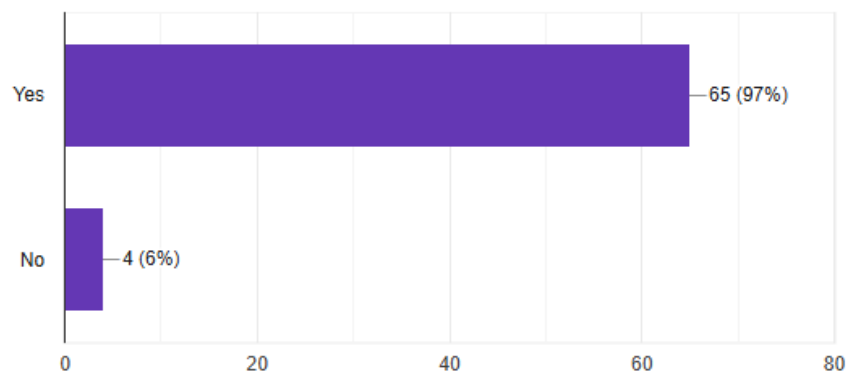
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Hybrid Mode

FEBRUARY 21 2026

Salutation *

1. Dr
2. Prof
3. Mr
4. Mrs
5. Miss



Learning Outcome

 [Copy chart](#)

Will the knowledge gained be useful in your academic/research/professional work?

67 responses

