

NATIONAL CONFERENCE ON



WATER AND ENVIRONMENT: CHALLENGES AND OPPORTUNITIES FOR SUSTAINABLE DEVELOPMENT (NCWE'2023)



18TH - 20TH DECEMBER 2023



ORGANIZED BY

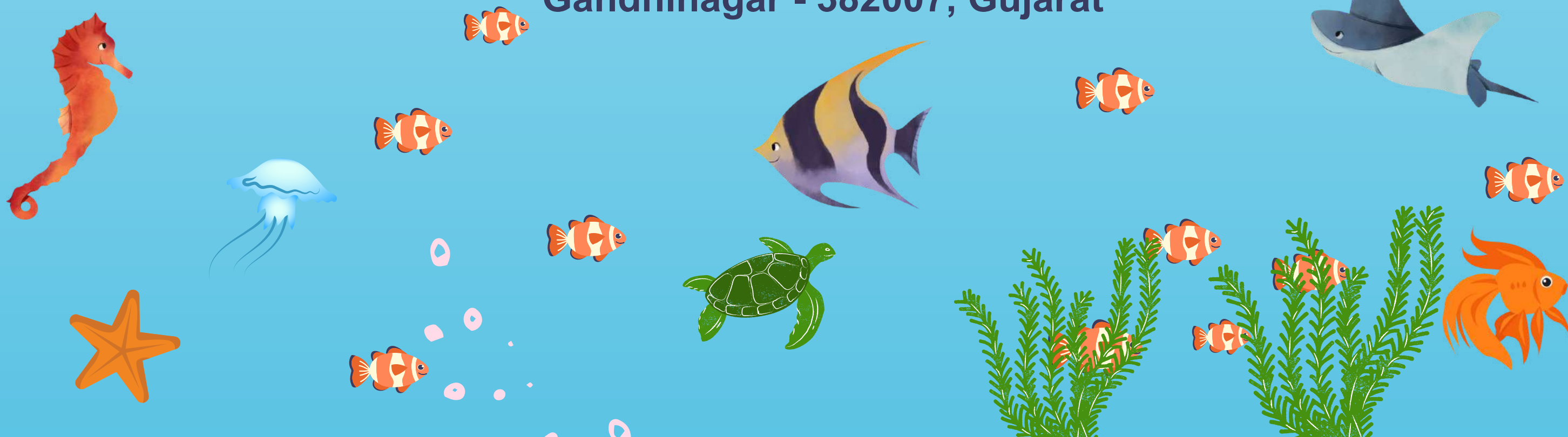


Gujarat Institute of Desert Ecology
Mundra Road, Bhuj - 370001
Kachchh, Gujarat - India

www.gujaratdesertecology.com
Email: ncwe2023@gmail.com
Mobile No: 8141276926

VENUE

NATIONAL FORENSIC SCIENCES UNIVERSITY,
Gandhinagar - 382007, Gujarat



ABOUT US

Gujarat Institute of Desert Ecology (GUIDE) was established in May 1995 and registered as a public trust and a society which ingresses in to its 25th year and persists to function as pioneering dryland and coastal/marine research institute striving to address the needs of the community through its research agenda; develop benchmark database for ecosystems of Kachchh and thereafter undertake continuous monitoring and trend-analysis through specific research activities; disseminate ecological information and communicate action plans to suit local conditions, through extension and other programs; and provide consultancy and training to various stakeholders in the principles of ecology, integrated management, and sustainable development. GUIDE has been recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Science and Technology (DST), Govt. of India, involved in Research, Teaching, and Consultancy activities on various aspects of Environment, Ecology, Biodiversity, Desertification, Climate Change and Natural Resource Manage.

ABOUT CONFERENCE

The National Conference on "Water and Environment: Challenges and Opportunities for Sustainable Development" organized by the Gujarat Institute of Desert Ecology aims to address the challenges and priorities in managing water resources. The conference emphasizes the importance of water and its complex value in households, culture, health, education, economics, and the natural environment. It recognizes that water is essential for life and its scarcity and pollution pose significant challenges in the present century.

Water scarcity, driven by factors such as population growth and economic expansion, affects social, economic, and environmental well-being. Water stress is particularly severe in countries like India, which have limited freshwater resources and face the consequences of pollution and inadequate treatment of wastewater. The pollution of water bodies, including rivers, lakes, and ponds, has far-reaching effects on agriculture, human health, and ecosystems. Water conservation and prevention of pollution are crucial for sustainable water resource management. Efficient control and conservation of both groundwater and surface water resources are necessary to ensure future water availability.

Groundwater, being the most widely available and dependable source of water in India, plays a significant role in meeting the diverse needs of various sectors and requires better management, governance, and monitoring to ensure its sustainability in the face of climate change. Climate change poses additional challenges to freshwater resources globally. Extreme weather events, changing precipitation patterns, and other climate impacts directly affect water security. The ultimate goal of the conference is to enhance understanding, address challenges, and share good practices related to water and its associated issues. By doing so, it strives to contribute to the sustainable governance, use, and management of water resources worldwide and also helps to recognize the need to maintain the sustainability of water resources and protect fragile water environments in the face of increasing uncertainty and intensive water use.

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The conference aims to promote the sharing and exchange of scientific and policy knowledge related to water and the environment and provides a platform for participants from different backgrounds, including government departments, academia, scientists, professionals, experts, and policymakers, to present their research, experiences, and solutions. By addressing various thematic areas and promoting interdisciplinary collaboration, this conference contributes to the understanding and protection of water and the environment.

THEMES

Theme 1: Water and Health

- Drinking Water and Health – Contamination, Supply and Sanitation.
- Wastewater- Treatment, Reuse and Ramification.
- Impacts of Pollution on Water Resources.
- Innovative Analytical Methods for Emerging Contaminants.

Theme 2: Wetland Conservation and Management

- Status of wetlands: State, National and International Scenario.
- Wetlands and Biodiversity.
- Conservation, Restoration and Management of Wetlands.

Theme 3: Water and Climate Change

- Impacts of Climate Change on water resources in Drylands
- Water and Climate Change in the Agricultural Sector.

Theme 4: Water Resource Management

- Issues and Challenges of Water Resource Management.
- Participatory Water Resource Conservation and Management in India (Case Studies).
- Exigency of Emerging Technology and Applications in Water Management.

Theme 5: Water Governance, Policy and Planning

- Water Laws, Policies and Planning: Problems and Challenges.
- Water Economics and Water Footprint along with Virtual Water Calculations.
- Site Specific Water Governance Plans – Need of the Hour.

KEYNOTE ADDRESS



Dr. Deepak Apte
Member - Expert Advisory Committee
- IA Policy, MoEFCC, Gol.
Former Chairman, EAC (CRZ & Infrastructure 1), MoEFCC, Gol.

INVITED EXPERT SPEAKERS

THEME 1: WATER AND HEALTH

Dr. S. Haldar
Sr. Principal Scientist
Central Salt and Marine Chemicals
Research Institute, Gijubhai Badheka
Marg, Bhavnagar-364002, Gujarat.



THEME 2: WETLAND CONSERVATION AND MANAGEMENT



Dr Ritesh Kumar
Director
Wetlands International South Asia
NSIC Business Park, Okhla Industrial
Estate, New Delhi-110020

THEME 3: WATER AND CLIMATE CHANGE

Dr. Jagdish Krishnaswamy
Dean - School of Environment
and Sustainability
Head - Long-term Urban
Ecological Observatory (LTUEO),
Indian Institute of Human
Settlements,
Sadashivanagar, Bangalore-
560080, Karnataka.



THEME 4: WATER RESOURCE MANAGEMENT



Prof. Ashish Pandey
Bharat Singh Chair Professor & Head
Department of Water Resources
Development & Management,
Indian Institute of Technology,
Roorkee-247667,
Uttarakhand.

THEME 5: WATER GOVERNANCE, POLICY AND PLANNING

Mr. Nitin Bassi
Senior Programme Lead
Council on Energy, Environment and
Water (CEEW),
ISID Campus, 4, Vasant Kunj
Institutional Area
New Delhi - 110070



PATRONS

Sh. P. K. Taneja, IAS (Retd), Chairman, Gujarat Institute of Desert Ecology, Bhuj, Gujarat
Ms. Vijayalaxmi Sheth, IPoS, Vice-Chairman, Gujarat Institute of Desert Ecology, Bhuj, Gujarat.

CONVENOR

Dr. V. Vijay Kumar, Director, Gujarat Institute of Desert Ecology, Bhuj, Dist: Kachchh, Gujarat

NATIONAL ADVISORY COMMITTEE

Sh. Shyamal Tikadar, IFS (Retd.) Former PCCF (Wildlife), Gujarat Forest Department, Gujarat.
Sh. D.M. Thacker, Member Secretary, Gujarat Pollution Control Board, Gandhinagar, Gujarat.
Dr. AP Singh, IFS, APCCF (Monit. & Evaluation), Gujarat Forest Department, Gandhinagar, Gujarat.
Sh. K. R. Parikh, Secretary, The Gulf of Khambhat Development Project (KALPASAR), Gandhinagar.
Sh. V.J.Rana, IFS, Former CCF, Bhuj, Kachchh, Gujarat.
Dr. R. Parthasarathy, Visiting Professor, Lal Bahadur Shastri Nat. Acad. Admin, Uttarakhand.
Dr. K. K. Lal, Director, ICAR-Central Institute for Brackish water Aquaculture, Chennai, Tamilnadu.
Dr. Yogesh Jadeja, Director, Arid Communities and Technologies, Bhuj, Gujarat.
Dr. Meera Mehta, Emeritus Prof. & Head, Center for Water and Sanitation, CEPT University, Ahmedabad.
Prof. M. G. Thakkar, Director, Birbal Sahni Institute of Palaeosciences, Lucknow, Uttar Pradesh.
Prof. M. Muthukumar, Dean & Head, Dept. of Env. Science, Central University of Kerala, Kasargod.
Dr. Asifa Qureshi, Principal Scientist, CSIR-NEERI, Nagpur, Maharashtra.

ORGANIZING SECRETARY

Dr. G. Jayanthi, Scientist, GUIDE, Bhuj

CO-ORGANIZING SECRETARY

Dr. K. Karthikeyan, Assistant Director, GUIDE, Bhuj

ORGANIZING COMMITTEE

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Dr. Kapilkumar N. Ingle, Project Scientist, GUIDE
Mr. Manish P. Vyas, Administrative Officer, GUIDE
Ms. Geeta Goswami, Accounts Officer, GUIDE

The abstracts are invited for oral/poster presentation. It is intended to publish the proceedings of the Conference. Contributors are requested to submit their Abstract through Google form.

1. Title: Times New Roman, Centrally aligned, Bold, 14 font
2. Authors' name: Times New Roman, Centrally aligned, 12 font, presenting author name underlined; Affiliation details and Corresponding author e-mail.
3. Keywords: Maximum 5
4. Main text: Maximum of 300 words in Times New Roman, 12 Font, justified, 2.5 cm margin all around with single-spacing

Poster: The size of the poster should be 90 x 60 cm on a glossy sheet.
Oral: Presentation will be restricted to 10 minutes followed by discussion.

Best Paper Awards for each theme in the Oral and Poster presentations category will be awarded.

Registration Deadline and Submission of Abstract: **30th November 2023**

UG / PG Students* : Rs. 1000/-
Research Scholars* : Rs. 1500/-
Faculty from Academia/ Research Institutions: Rs. 2000/-
Representatives from Industries: Rs. 2500/-
Accompanying Person: Rs. 1000/-
Spot Registration: Rs. 500/- in addition to the Registration. Fee.

*Students should produce an Institutional ID card; If not provided, a fee of Rs. 1500/- will have to be paid.

Registration Fees can be paid through Cash/DD/RTGS/NEFT/Online payment.

* **Note:** DD should be drawn in favor of **"Gujarat Institute of Desert Ecology"** payable at Bhuj.

* * For RTGS/NEFT/Online transfer, bank details are **Gujarat Institute of Desert Ecology, ICICI Bank, Bhuj branch, Account No: 008601004190, IFSC Code: ICIC0000086**

The conference registration can be completed through two simple options. The provided Google form link can be clicked to fill out the necessary information, or the QR code can be scanned using your smartphone or a QR code scanner app, and it will direct you to the same Google form. A confirmation email will be sent to you once the form is submitted. If you have any questions or encounter any issues, please feel free to contact us for assistance.

Google form link: <https://forms.gle/kKYpno2fivgrc6yW6>

