



# NERIWALM NEWSLETTER



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**North Eastern Regional Institute of Water and Land Management**  
**Department of Water Resources, River Development & Ganga Rejuvenation,**  
**Ministry of Jal Shakti, Government of India,**  
**Tezpur, Assam - 784 027.**



## WORKSHOP ON TRAINING AND RESEARCH NEEDS ASSESSMENT

"Workshop on Training and Research Needs Assessment" (TARNA) was held on February 7th, 2025, at NIRD& PR- NERC, Guwahati. The workshop was organized by NERIWALM in collaboration with the National Institute of Hydrology (NIH) - North Eastern Regional Center, Guwahati, and the Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Government of India.

The workshop's purpose was to understand the skills and knowledge gaps of beneficiaries to plan effective training and need-based research in water and land management. It aimed to align training and research with organizational objectives, identify skill gaps, and enhance workforce capacity. Participants included 66 officials from state and central government departments, academic institutes, and NGOs working in the North Eastern Region. The workshop involved sessions on the significance and methodology of TARNA, presentations by NERIWALM and NIH, analysis of training needs questionnaires, presentations on training and research needs by various organizations, and discussions leading to recommendations.



## 12TH TECHNICAL ADVISORY COMMITTEE (TAC) MEETING

The 12th Technical Advisory Committee (TAC) meeting of NERIWALM was convened on March 10, 2025, at the Institute's premises. The meeting was chaired by Dr. Pradip Kumar Bora, Director, NERIWALM, and witnessed active participation from all TAC members—both in person and through hybrid mode. The session began with a comprehensive presentation on NERIWALM's ongoing activities, delivered by Dr. Ch. Victoria Devi, Training In-charge. The discussions primarily centered around the accomplishments of various technical initiatives and included in-depth deliberations on upcoming activities, particularly the training programs proposed for the year 2025–26.



## TECHNICAL LECTURE ON GOOD PRACTICES AND ETHICS IN RESEARCH AND PUBLICATION

 9 JANUARY, 2025

The lecture was delivered by Dr. Dilip Datta, Professor of Mechanical Engineering at Tezpur University. The session focused on key aspects of ethical research practices, including the purpose of conducting research, the importance of research ethics and integrity, responsible publication practices, and the identification and avoidance of research misconduct. Additionally, the discussion explored the concepts of land ethics and water ethics, highlighting the relevance of ethical considerations in environmental and resource management research. The event aimed to promote a culture of ethical awareness and integrity among researchers, scholars, and professionals in the field.



# NERIWALM PARTICIPATES IN CLIMATE CHANGE SUMMIT

12 FEBRUARY, 2025

GUWAHATI

NERIWALM, Tezpur, actively took part in the "Climate Change Summit – A Call to Future," held on 12th February at the NEDFi Convention Centre, Guwahati. The event, comprising both an exhibition and a conference, was organized by NE Focus. The summit brought together stakeholders from various sectors to discuss pressing environmental challenges and sustainable solutions.. NERIWALM's participation highlighted its commitment to climate resilience and knowledge sharing in the North Eastern Region.



## DONATION OF DESKTOP COMPUTERS UNDER VIDYANJALI SCHEME

19 MARCH, 2025

GOLAGHAT

Under the Vidyanjali Scheme, which promotes the donation of educational resources to schools, NERIWALM donated a total of five computers on 19.03.2025 to two schools in Golaghat District, Assam-two computers to Lunpuria L.P. School and three to Dergaon Higher Secondary School.





# WORKSHOP ON WOMEN'S RIGHTS AND EMPOWERMENT IN THE EVENT OF INTERNATIONAL WOMEN'S DAY

NERIWALM marked International Women's Day by organizing a workshop on "Rights, Equality and Empowerment of Women", which saw enthusiastic participation from students and faculty members representing nine colleges.

The event commenced with a warm welcome and an insightful address by the Director of NERIWALM, setting an inspiring tone for the day. Dr. Madhurima Goswami, Associate Professor in the Department of Women's Studies at Tezpur University, graced the occasion as the Chief Guest, while Ms. Pratiba Meshram, Assistant Commissioner (IAS), honored the program as the Guest of Honour.

The workshop featured engaging sessions by distinguished resource persons. Smt. Krishna Bormudoi, a successful woman entrepreneur from KB Hydroponics Academy, delivered a motivating talk on empowering women in agriculture. Mr. Stephen Ekka, Director of PAJHRA, addressed critical issues including women's atrocities, human trafficking, and domestic violence.

With over 230 participants in attendance, the workshop was a vibrant and impactful celebration of women's achievements and a strong call for continued advocacy toward gender equality and empowerment.





# NERIWALM HOSTS WATER USERS' AND FARMERS' CONCLAVE ON WORLD WATER DAY 2025

To mark World Water Day 2025, NERIWALM organized the Water Users' and Farmers' Conclave, which brought together around 400 participants, including farmers from various irrigation divisions of Assam, Meghalaya, Arunachal Pradesh, and Nagaland, as well as engineers and officials from the Water Resource Departments of these states.

The conclave was graced by Shri S. K. Sinha, Commissioner (B&B), DoWR, RD & GR, Ministry of Jal Shakti, Government of India, who attended as the Chief Guest. The Director of NERIWALM delivered the welcome address, setting the stage for meaningful discussions on regional water concerns.

Eminent speakers enriched the event with their insights, including Prof. Debendra Chandra Baruah from Tezpur University; Shri G.L. Bansal, Chief Engineer, BBO, CWC, Guwahati; Shri K. Hutoi Sema, Chief Engineer, WRD, Nagaland; and Smti M.B. Ritsong, Additional Chief Engineer, WRD, Meghalaya. The conclave also saw the participation of key officials such as Shri Gopal Chetri, Deputy Secretary, Government of Assam, and Shri L.S. Rawat, Superintending Engineer, Arunachal Pradesh, alongside a wide spectrum of departmental engineers including Executive Engineers (EEs), Assistant Executive Engineers (AEEs), Assistant Engineers (AEs), Junior Engineers (JEs), Section Officers (SOs), and Section Assistants (SAs).

The event served as a dynamic platform for dialogue on sustainable water resource management, encouraging collaborative approaches to address challenges and promote efficient water use across the North Eastern states.





**"Cleanliness is not a task; it is a way of life. Let's make cleanliness a part of our culture, and together we will transform India."**

**–Prime Minister Shri Narendra Modi**

## NERIWALM OBSERVES SWACHHATA PAKHWADA 2025 WITH CAMPUS-WIDE CLEANLINESS INITIATIVES

As part of the nationwide Swachhata Pakhwada 2025 initiative, NERIWALM launched a series of cleanliness drives within its campus, aligning with the theme "Swachhata – Everyone's Business." The observance began on March 16, 2025, and will continue until March 31, 2025, emphasizing collective responsibility in maintaining hygiene and cleanliness.

On March 17, 2025, NERIWALM officials led a mass campus cleaning drive, actively participating to set a strong example of community involvement. The commitment to cleanliness was further reaffirmed when all officials took the Swachhata Pledge on March 21, 2025.

Throughout the week, from March 18 to March 21, and again on March 26, a series of cleanliness activities were organized across different parts of the campus. These efforts saw enthusiastic participation from staff members, fostering a sense of shared ownership and environmental responsibility.

The collective initiative not only helped enhance the campus environment but also reinforced the institute's dedication to supporting national cleanliness goals through consistent action and awareness.





# IN-CAMPUS TRAINING PROGRAMMES

## INDUCTION LEVEL TRAINING ON " OVERVIEW OF WATER AND LAND MANAGEMENT AND SPRINGSHED MANAGEMENT

 **6-10 JANUARY, 2025**

The program engaged newly recruited officers of the CGWB to equip participants with foundational knowledge and practical insights relevant to the water and land management challenges of the northeastern region. The training covered key topics such as integrated water resources management, land use planning, groundwater assessment, springshed development, watershed management, and the use of geospatial tools.

 **20-24 JANUARY, 2025**



## INDUCTION LEVEL TRAINING ON " SOIL-CROP WATER MANAGEMENT AND AGRICULTURAL ENGINEERING

 **24-29 MARCH, 2025**

The training included officers of the CWES and delivered topics such as soil-water-plant relationships, irrigation scheduling, crop water requirements, micro-irrigation systems, and climate-resilient agriculture. The program combined lectures, practical sessions, and field visits to enhance participants' understanding of sustainable water and land management in agriculture.





# OFF-CAMPUS TRAINING PROGRAMMES

## REMOTE SENSING & GIS APPLICATION IN WATER RESOURCE MANAGEMENT

22-24 JANUARY 2025

KOHIMA



The three-day training program was conducted for the officials of the Water Resources Department, Nagaland, at Kohima. The training aimed to enhance participants' knowledge and technical skills in remote sensing, GIS tools, and their practical applications in water conservation and management.

## AWARENESS PROGRAMME ON WATER CONSERVATION AND WATER MANAGEMENT

24 JANUARY 2025

KOHIMA

The training was conducted at Thizama Village, near Kohima, Nagaland, for 50 farmers and members of the Village Council. The training focused on raising awareness about sustainable water use and improving local water management practices. The sessions highlighted the role of soil conservation and afforestation in preserving water resources. Practical demonstrations were conducted on efficient irrigation methods like drip and sprinkler systems. Participants were encouraged to develop village-level water management plans tailored to their local needs and environment.



## TRAINING ON IRRIGATION WATER MANAGEMENT

30 JANUARY 2025

AGARTALA, TRIPURA



The training was organized in collaboration with the Public Works Department (Water Resources), Tripura and attended by 45 Junior Engineers (JE), Assistant Engineers (AE), and Executive Engineers (EE) from various districts across Tripura. It aimed to strengthen the capacity of engineering personnel in optimizing irrigation water use and ensuring sustainable agricultural productivity.



# OFF-CAMPUS TRAINING PROGRAMMES

## TRAINING ON MULTIPLE CROPPING AND WATER MANAGEMENT


**31 JANUARY 2025**

**GOMATI, TRIPURA**


The training was organized in collaboration with KVK, Gomati, Tripura, with active participation from 36 farmers, the majority of whom belonged to the Scheduled Tribe (ST) community. The program focused on promoting sustainable agricultural practices through multiple cropping systems, crop planning based on water availability, efficient water use techniques, and integrated water management strategies.

## WORKSHOP ON WATER MANAGEMENT IN HORTICULTURAL CROPS

NERIWALM, in collaboration with the Assam Horticultural Society, Sonitpur District Branch, organized a one-day workshop on “Water Management in Horticultural Crops” as part of the 19th Sonitpur District Horticulture Show – 2025. The workshop was attended by 39 farmers and focused on improving water use efficiency in horticulture. Key topics discussed included drip and sprinkler irrigation systems, moisture conservation techniques, crop-specific water requirements, scheduling of irrigation, and the role of mulching and organic practices in water management.


**10 FEBRUARY 2025**

**TEZPUR**


## TRAINING PROGRAMME ON IRRIGATION WATER MANAGEMENT


**18-20 MARCH 2025**

**KOKRAJHAR**


The training was conducted for members of the Water Users Association (WUA) and farmers associated with the Champamati Major Irrigation Project at Kokrajhar. The program was funded by the Irrigation Department, BTC, Government of Assam. Participants actively took part in soil sample collection from the Champamati command area and gained hands-on experience through field exposure visits.



**“The small wisdom is like water in a glass: clear, transparent, pure. The great wisdom is like the water in the sea: dark, mysterious, impenetrable”**

**—Rabindranath Tagore**

## राजभाषा से सम्बंधित



5 MARCH 2025



GUWAHATI

भारत सरकार, गृह मंत्रालय, राजभाषा विभाग द्वारा, 05 मार्च 2025 को ब्रह्मपुत्र हॉल, मेफेयर स्पिंग वैली रिसॉर्ट, गुवाहाटी, असम में अयोजित, पूर्व एवं पूर्वोत्तर क्षेत्र का संयुक्त क्षेत्रीय राजभाषा सम्मेलन में, नेरिवालम से श्री सुरुज कुमार बोरा, लेखाकार, श्री अभिषेक कुमार, कनिष्ठ अभियंता, श्रीमती दीपाली मोहन, आशुलिपिक, और श्री रूपक गोहाई, अवर श्रेणी लिपिक ने भाग लिया है।



## TRAININGS & WORKSHOPS ATTENDED BY THE EMPLOYEES OF NERIWALM

- Dr. Uzzal Mani Hazarika, Associate Professor (WRE) and Shri Ritu Thakur, Assistant Professor (Agriculture) attended a residential training programme on “Building High Performance Organization Through Visionary Leadership”, organized by the Greater Noida Productivity Council, held at Port Blair from 14<sup>th</sup> to 18<sup>th</sup> January, 2025.
- Dr. Uzzal Mani Hazarika, Associate Professor (WRE) participated in the State-Level Workshop on the State Specific Action Plan (SSAP) for the Water Sector of Tripura, organized by the National Water Mission (NWM) on 29<sup>th</sup> January 2025.
- Dr. Sagarika Patowary, Assistant Professor (WRE) and Dr. Luna Moni Das, Assistant Professor (S. Sc) participated in the IN-Space Application Adoption Workshop (SAAW) titled “Space for Assam”, organized by the Assam Space Application Centre in collaboration with IN-SPACE, held on 29<sup>th</sup> January, 2025 at the Assam Water Centre, Guwahati.
- Shri Ritu Thakur, Assistant Professor (Agriculture) attended and presented a paper in the International Groundwater Conference (IGWC 2025), held during 5<sup>th</sup> to 7<sup>th</sup> March, 2025 at National Institute of Hydrology (NIH), Roorkee, India.



## PUBLICATIONS

Thakur, R. (2025, March 5–7). Comparative hydrogeochemical assessment of shallow tubewell water in parts of north and south bank plain of the Brahmaputra [Paper presentation]. International Groundwater Conference (IGWC 2025), National Institute of Hydrology (NIH), Roorkee, India.



**“In the Amrit Kaal, India is looking towards water as the future” Water conservation is the culture of our society and the centre of our social thinking”**

**——Prime Minister Shri Narendra Modi**

## STUDENT'S CORNER

A group of 23 M.Tech students and 4 scientific staff from NERIWALM undertook an exposure visit cum training program at the National Water Academy (NWA) and the Central Water and Power Research Station (CWPRS), Pune, from March 3 to 7, 2025. The program provided in-depth learning on a wide range of topics including Google Earth Engine (GEE), QGIS, Artificial Intelligence (AI) and Machine Learning (ML) applications in water resources, design of irrigation structures, water-related acts and policies, physical flood modeling, sediment traps, and water quality assessment. Participants also had the opportunity to visit important hydraulic infrastructures and institutions such as the Upper Khadakwasla Division (UKD), Central Water Commission (CWC) facilities, and the Khadakwasla Dam. The hands-on training and field exposure greatly enriched the participants' understanding of both theoretical and practical aspects of water resource management.



## ADMISSION OPEN FOR M.TECH IN WATER RESOURCE MANAGEMENT AT NERIWALM

NERIWALM is now accepting applications for the M.Tech in Water Resource Management programme for the academic session 2025–26.

Important Dates:

- Application Submission Opens: 1st April, 2025
- Application Submission Closes: 15th July, 2025

This advanced programme is designed to equip students with the technical expertise and management skills necessary to address the challenges of sustainable water resource development and management.

For more information, including detailed eligibility criteria, application procedures, and other important dates, please visit the official NERIWALM website: [www.neriwalm.gov.in](http://www.neriwalm.gov.in)



# ADMISSION ANNOUNCEMENT

**2025-26**

## M.Tech WATER RESOURCE MANAGEMENT

Approved by AICTE

Affiliated to **Assam Science and Technology University (ASTU)**  
Guwahati

### FACILITIES

- ✓ Smart class rooms
- ✓ Library
- ✓ Gymnasium
- ✓ Laboratories
- ✓ Single seater hostel room



SCAN TO APPLY



## NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT (NERIWALM)

*An Institute under the Department of Water Resources, River Development &  
Ganga Rejuvenation, Ministry of Jal Shakti, Govt. of India*

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## DIRECTOR'S DESK

Institutions, like rivers, are shaped not by force but by persistence—by the small, consistent currents of intent and action. At NERIWALM, the first quarter of 2025 has embodied this spirit, presenting valuable opportunities to listen, engage, and respond to the needs of our land and its people.

We began the quarter with the Workshop on Training and Research Needs Assessment, organized in collaboration with NIH and other esteemed partners. This initiative allowed us to evaluate emerging capacity gaps and better align our efforts with the region's evolving requirements. Such engagements not only enhance our training modules but also deepen our understanding of the dynamic landscape we serve.

The 12th Technical Advisory Committee Meeting, held in March, further helped to consolidate our priorities and sharpen the focus of our programmes and initiatives for the coming year.

One of the most resonant moments was the Water Users' and Farmers' Conclave on World Water Day. This was not just an event—it was a mirror reflecting the concerns of farmers, the foresight of engineers, and the responsibility of policymakers. From Arunachal to Nagaland, voices united not in debate, but in a shared commitment. The key takeaway was clear: the future of water management lies in collaborative action, not isolated efforts.

Our observance of International Women's Day reminded us that empowerment is not a mere promise—it is a continuous process. The presence of bold voices, from grassroots leaders to academic thinkers, reaffirmed our conviction that gender equity must be actively embedded in all developmental agendas.

In an age overwhelmed by information, integrity stands as our most valued currency. As we look forward, we remain committed to ensuring that NERIWALM is more than a technical institution—it is a space for ethical practice, inclusive dialogue, and dedicated service. Every initiative we undertake, no matter how small, contributes meaningfully to the larger vision of sustainable and inclusive development.

## EDITORIAL BOARD

### Chief Editor:

**Dr. Uzzal Mani Hazarika, Associate Professor (WRE)**

### Editors:

**Dr. Ch. Victoria Devi, Assistant Professor (SSc)**

**Dr. Sagarika Patowary, Assistant Professor (WRE)**

**Dr. Luna Moni Das, Assistant Professor (SSc)**

### Designing Team:

**Shri Shuvajit Das, Laboratory Assistant (Engineering)**

**Ms. Mridusmi Hazarika, Young Professional (Library)**

### Liaisoning Officer:

**Shri Binay Krishna Das (Library and Information Assistant)**



## ABOUT NERIWALM

The North Eastern Regional Institute of Water and Land Management (NERIWALM) is under the Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, Govt. of India to provide capacity building, undertake research and provide technical services to the line departments in order to manage water and land for improving agricultural production and socio-economic status of the people in North East India.

The Institute caters to all the eight states of North Eastern Region of India namely Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. The technical expertise's of the Institute is also reach out to other part of the country and neighboring countries specially South East Asian countries.



**Director**

### **NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT**

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