



# World Water Day (WWD)

## 2024



# ROW/SOA Training Workshop, Bhubaneswar, Odisha

## Summary Report





# Training Workshop on Water, Waste Management & Climate Change

**19<sup>th</sup> & 20<sup>th</sup> April, 2024**

Venue: Centre for Environment & Climate (CEC), ITER

*Organised by*

RIVERS OF THE WORLD (ROW) FOUNDATION  
(USA)

&

SIKSHA 'O' ANUSANDHAN  
(DEEMED TO BE UNIVERSITY)  
BHUBANESWAR, ODISHA

This workshop by the **ROW)** Foundation (USA) in collaboration with the **SOA**, deemed to be University, Bhubaneswar, Odisha, included a comprehensive training in water, waste management, and climate change areas. The participants included graduate students, who were mostly PhDs and Masters level students in Environmental Science, Physics, Chemistry, Biomaterials, and other related fields.



Participants at the workshop with the training faculty members

The classroom (in-person) training workshop on **Day 1** was followed by a site visit and field training on water testing and evaluation of water bodies and impacted rivers near Bhubaneswar on **Day 2, April 20<sup>th</sup>, Saturday**. Interactions between the participants, faculty members and the experts from US, and India provided a great learning environment. The Workshop Agenda included below:

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### **Day 1 (April 19, 2024)**

#### **1. Introduction & Scope (0.5 hr.)**

- a. Opening Remarks ( VC/Dean SOA)
- b. Introduction (Dean IBCS)
- c. Overview of the training (Subijoy Dutta, P.E.) – Brief Summary

#### **2. Climate Change (2.0 hrs.)**

- a. Impact of Climate Change on Odisha Rivers (Dr. S.C. Sahu)
- b. Global impacts of Climate Change – Building resilience and reversal of global warming (Subijoy Dutta, P.E.)
- c. Q&A

Break - 10 minutes

#### **3. Water and Wastewater – Proper use and treatment for a healthy living (1 hr.)**

- a. Dr. Prakasam Tata
- b. Q&A

#### **4. Lunch (1 – 2 PM)**

#### **5. Improved Storm & Waste Water Management Using Low Impact Designs (LID), Prof. William E. Roper, President, ROW Foundation**

**6. Municipal Solid Waste – Waste to Energy Options (1 hr.)**

- a. MSW - Options for treating/Disposal of MSW (Subijoy (Dutta, P.E.)
- b. Q&A

**7. Stormwater Issues-Impacts Crofton, Maryland, USA - A Case Study( 30 min.)**

- a. Drainage inflow from Ridings to Crofton Colony –Analysis and Impacts– case studies (Subijoy Dutta, P.E)

**8. Wrap-up, Evaluation and Feedback (1 hr.)**

Wrap-up

Evaluation of Participants (multiple choice Qs)

Short Feedback from the participants

Certificates Presentation to Successful Participants from 2023

**9. Valediction**

**10. Certificates to 2023 participants**

# Pictures from the classroom (in-person) training workshop





Mr. Subijoy Dutta, Founding Director, ROW Foundation presenting a Check for Rs.12,000 (\$150) to Dr. Anup Samantaray, Dean IBCS, SOA University for **Best Education and Training - arranging a highly effective workshop and field testing of local rivers in Bhubaneswar, Odisha.**

## **Day 2 (April 20, 2024, Saturday)**

### **Visits to River Sites – Daya, Rushikulya, Brahmani and/or Others (10:00 AM – 2:00 PM)**

#### **1. Plan for the specific areas to be visited - 10:30 AM**

Finalize Rivers, locations with local coordinators + SOA – Activities: water testing; visiting with local people to listen to their concerns, comments, and willingness to help; collect data and information

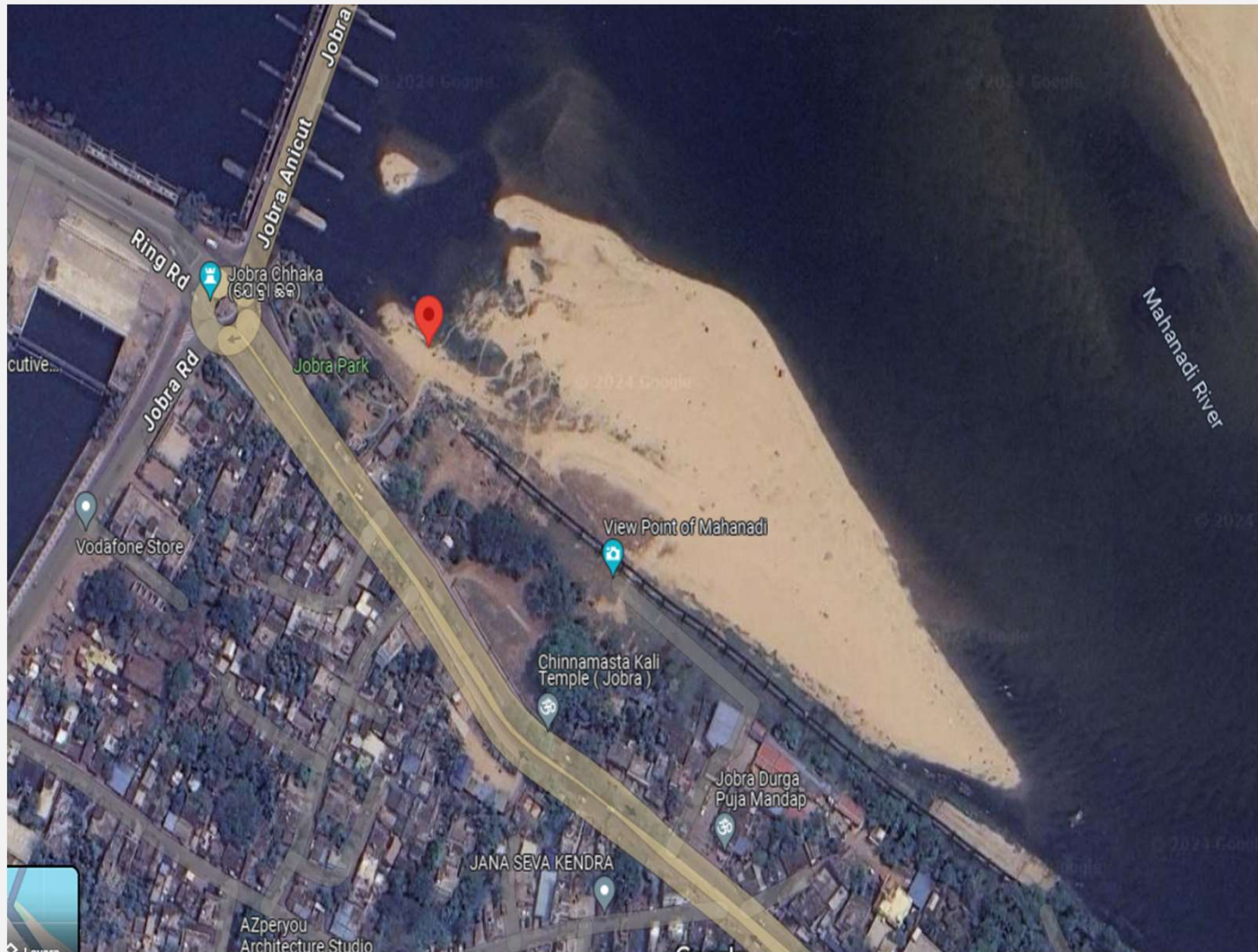
Four PhD students in Environment and Climate science participated in the field program.

Water testing at Daya River – measuring, Total dissolved solids (TDS), Conductivity, and Temperature.



1. Latitude: 20° 28' 43.73737" N 85° 54' 5.89462" E

Water testing at Mahanadi River site near Jobra Barrage



**Water Quality –**

TDS – 142 ppm

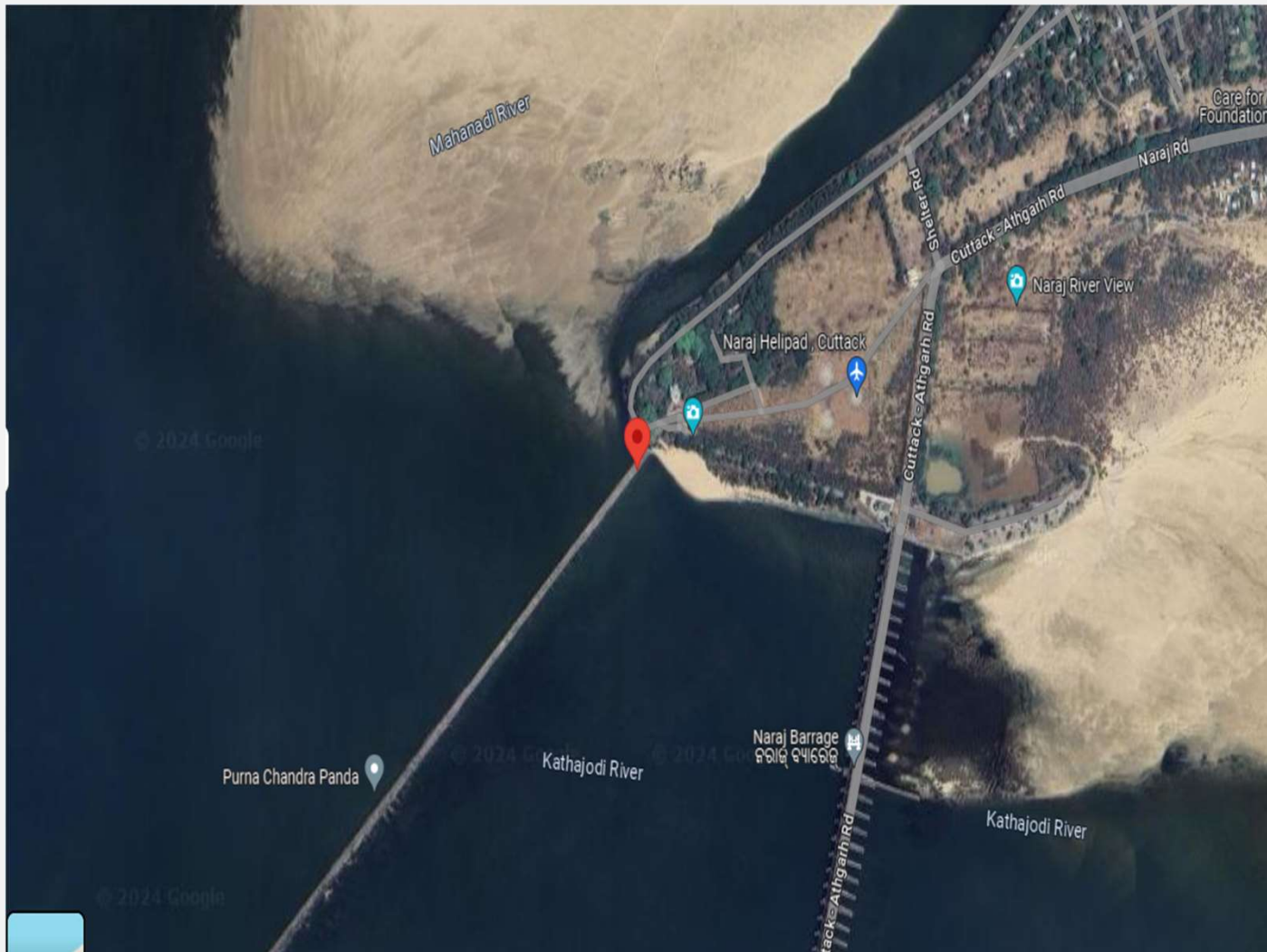
Conductivity -286 umho/cm

Temp- 32.3°C

Elevation - 26ft

2. Latitude: 20° 28' 47.81837" N 85° 46' 34.64908" E

Water testing at Kothajodi River site near Naraj Barrage



**Water Quality –**

TDS – 124 ppm

Conductivity – 244 umho/cm

Temp- 33°C

Elevation - 42ft

## Water Testing Pictures

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## Water Testing Pictures





A scary Bull fight - we encountered an open fight between two charging Bulls



Pictures from the site visit.

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# Participants at the field testing site





THANK YOU FOR VIEWING THE WWD-2024 REPORT ON ROW/SOA TRAINING WORKSHOP, BHUBANESWAR, ODISHA. YOUR COMMENTS WILL BE VALUABLE.

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For more information, please visit the **ROW Foundation website at <https://rowfoundation.org>**. You can also reach out with questions or comments to the ROW Foundation [rowfoundation@gmail.com](mailto:rowfoundation@gmail.com).



**Rivers of the World**

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*Mending Our Water Ways*