

CSIR – National Environmental Engineering Research Institute (NEERI) Nagpur



Organizing

Two days Training Programme

On

**Biological Monitoring Analysis and Testing
(Microbiology, Bio-Assay and Bio-monitoring) SOPs,
Data Interpretation and Quality Assurance**

Date: 28-29th Oct, 2021



Sponsored by

Central Pollution Control Board

Under

NATIONAL HYDROLOGY PROJECT (NHP)

Project Highlights

National Hydrology Project is a Central Sector Scheme with Budget Outlay about Rs 3,640 Crore, with World Bank Assistance for a project duration of 8 years being implemented in India by Ministry of Water Resources. There are 50 Implementing Agencies (including 11 from Central Government, 34 from States, 02 from Union Territories and 03 from river basins)

Project Objective

To improve the extent, quality, and accessibility of water resources information, decision support system for floods and basin level resource assessment/planning and to strengthen the capacity of targeted water resources professionals and management institutions in India.

Components of NHP

1. Water Resources Monitoring Systems
2. Water Resources Information Systems
3. Water Resources operations and planning Systems
4. Institutional capacity Enhancement

Day 1, Thursday, 28th October, 2021

Inaugural Session

<i>Inaugural Address</i>	<i>Welcome Address</i>	<i>About CSIR-NEERI</i>	<i>Opening remark</i>	<i>Brief about the Training</i>
 <p>Dr. Prashant Gargava Member Secretary, CPCB</p>	 <p>Dr. S. Chandrashekhar Director, CSIR-NEERI</p>	 <p>Dr. Sadhana Raylu Senior Most Scientist and Head EMD CSIR-NEERI</p>	 <p>Dr. Atya Kapley Sr. Pri. Scientist & Head, EBGD CSIR-NEERI</p>	 <p>Dr. Harshvardhan Singh Sr. Pri. Scientist & Head, TSDD CSIR-NEERI</p>

Convenor

Dr. Sharda Kosankar, Senior Scientist
Environmental Biotechnology and Genomics Division
CSIR-NEERI, Nagpur

 <p>Planktons and Macroinvertebrates as an Ecological indicators: Identification and calculation Dr. Sharda Kosankar Sr. Scientist, EBGD, CSIR-NEERI</p>
 <p>Overview on Biomonitoring of lakes and rivers of India Dr. Purushottam Sakhare Scientist E/ Additional Director, MoEFCC, RO, Nagpur</p>
 <p>Molecular microbiology and ecological assessment Dr. Asifa Qureshi Principal Scientist, EBGD, CSIR-NEERI</p>
 <p>Biomonitoring of freshwater fisheries resources of India Dr. M Muruganandam Sr. Principal Scientist, Fisheries and Aquaculture, ICAR-Indian Institute of Soil and Water Conservation (ICAR-IISWC)</p>
 <p>Study of aquatic plants as an indicator of trophic status of surface water bodies Dr. Rajkumar Khapekar, Asso. Professor and HOD Dept of Botany, Sindhu Mahavidyalaya, Nagpur</p>

Day 2, Friday, 29th October, 2021



***Biomonitoring of Macroinvertebrates: Z-Score evaluation
and result interpretation***
Dr. Sharda Kosankar, Sr. Scientist, EBGD, CSIR-NEERI



***Assessment and identification of aquatic insects as an ecological
indicator***
Dr. Nitisha Patankar, Assistant professor, Hislop College, Nagpur



Biomarkers in aquatic environmental monitoring
Dr. Beena Joshi, Associate Professor and Head
Dolphin Post Graduate college of Medical and Natural Sciences, Dehradun



Bioassay: a tool for estimation of Toxicity of Water
Dr. Sharda Kosankar
Sr. Scientist, EBGD, CSIR-NEERI



Impact of quality of water on the aquatic biota
Dr. Amit Mishra
Chief Executive Officer, Terran India Foundation, Nagpur

Valedictory Function and Way Forward