

### **Civil defence personnel sharpen environmental response skills at CSIR-NEERI**

In a significant initiative to bolster environmental emergency preparedness, seventeen Civil Defence Personnel from various regions visited the CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) on 10 June 2024. The CSIR-NEERI scientists imparted in-depth knowledge and practical insights into advanced environmental response mechanisms as part of the 'Chemical Disaster First Responders Course' being conducted by the National Disaster Response Force Academy (NDFRA), Nagpur.

Dr. K. V. George, Chief Scientist, CSIR-NEERI, discussed "Emergency Response to Environmental Hazards," highlighting case studies and best practices for dealing with environmental crises.

Dr. Ritesh Vijay, Senior Principal Scientist, briefed the personnel on decentralized sewage treatment plants and the patented advanced Dry Toilet with Faeces-Urine Separation and Treatment (DToi-FUrST) system, designed for cold and arid regions to provide hygienic and odor-free sanitation.

Dr. Ganesh Kale, Sr. Principal Scientist, CSIR-NEERI, gave an overview of the prototypes placed in the Technology Park and their role in implementing waste-to-wealth projects.

Dr. Asheesh Sharma, Principal Scientist, CSIR-NEERI, demonstrated the use of Geographic Information System (GIS) mapping and remote sensing technology in assessing environmental hazards. He also briefed the personnel on the software developed by CSIR-NEERI to digitize water bodies and tackle water crises. This session underscored how real-time data can significantly enhance the effectiveness of emergency response strategies.

The lab tour provided the civil defence personnel with a closer look at the sophisticated tools and methodologies used in modern environmental science. The visit significantly enhanced their understanding of environmental issues and emergency response strategies, improving their ability to effectively handle environmental crises.



**Dr. K. V. George, Chief Scientist, CSIR-NEERI highlighting case studies and best practices for dealing with environmental crises**



**Dr. Ritesh Vijay, Senior Principal Scientist, briefing about the patented advanced Dry Toilet with Faeces-Urine Separation and Treatment (DToi-FUrST) system**



**Dr. Ganesh Kale, Sr. Principal Scientist, CSIR-NEERI, gave an overview of the prototypes placed in the Technology Park**





**Dr. Asheesh Sharma, Principal Scientist, CSIR-NEERI, demonstrated the use of Geographic Information System (GIS) mapping and remote sensing technology in assessing environmental hazards**



The Civil Defence Personnel at Harit Sangrahalaya