

### ENPHO Laboratory and Production

ENPHO laboratory, accredited by the government agency "Nepal Bureau of Standard and Metrology" under NEPLAS system based on ISO 17025, provides services for testing household water, waste water, air, soil and food quality. ENPHO laboratory is well equipped with modern instruments, filtration units, various incubators, autoclave and laminar flow hood for different types of analysis. The laboratory has developed field test kits for water, arsenic, free residual chlorine, and coliform presence/absence vial. ENPHO laboratory has become an important platform for research and development in water, sanitation and environment sectors.



### Knowledge Management and Advocacy

Knowledge-based education and advocacy campaigns are a core activity of ENPHO which is managed by its Resource Centre. This unit collects stores and disseminates information and uses them to conduct education and advocacy campaigns on environment and public health.

### Training and Capacity Building

ENPHO provides a learning platform that designs and delivers professional training programmes using innovative tools for capacity development at community and organizational levels. With the developmental of new technology and concept, it is crucial to train human resources along with regular monitoring, consultation and feedback. The Water Expertise and Training Centre (WET-Centre), established in 2009, focuses on building capacity of professionals and communities on household level water treatment and sanitation technologies.

### ENPHO's Milestones

1990	Water quality monitoring of Bagmati River and Kathmandu Water Supply System
1990	ENPHO Laboratory accredited by Government body "Nepal Bureau of Standard and Metrology" under NEPLAS system based on ISO 17025
1992	Initiated Air Quality Monitoring for the first time in Nepal within Kathmandu Valley
1994	Production and distribution of PIYUSH® chlorine solution started
1997	Introduced Constructed Wetlands for Wastewater Treatment System in Nepal
2000	Production of ENPHO test kits, Arsenic Testing and Mitigation activities initiated in the Terai
2001	Initiated Research on SODIS and ECOSAN
2003	Received award for Kanchan™ Arsenic Filter at World Bank Development Marketplace
2005	Environment Award from Ministry of Environment, Science & Technology
2006	Conducted Country Environment Analysis for the World Bank
2007	Initiation of Integrated Community based WATSAN Programme & Declaration of Open Defecation Free (ODF) at community level
2008	Scaling up of waste water treatment system at municipal level and integration of bio-gas system
2009	Received "Partnership for Clean Indoor Air (PCIA)" Award for Air Quality Improvement
2009	Establishment of Environment & Public Health Institute (ENPHI) within ENPHO
2009	Initiation of <i>Paschim Paaila</i> , a youth campaign against diarrhoea epidemic in Western Nepal
2009	Establishment of Nepal Node for Sustainable Sanitation
2010	ODF declaration at VDC level
2011	ECO-SAN poster received 1 <sup>st</sup> prize in pre-SACOSAN IV in Colombo, Sri-Lanka
2012	Started working on urban disaster risk reduction with focus on emergency WASH
2013	Promotion of Roof Top Agriculture as an adaptation to climate change
2014	Faecal sludge management – service delivery, business model and private sector engagement – in Kathmandu valley
2015	The Kyoto World Water Grand Prize (2015)
2015	Co-winner of the Water and Food (WAF) - 2015 Award
2016	Establishment of first pre-fabricated faecal sludge treatment plant
2017	Partnership with EcoConcern Pvt. Ltd. Publication of ENPHO's first Scientific Journal - "Journal of Environment and Public Health"



### Environment and Public Health Organization

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# Environment & Public Health Organization





## Vision

Creating Eco-Societies

## Mission

To develop, demonstrate and disseminate (3-D) appropriate technologies to enable societies become healthy and environment friendly.

## Strategic Objectives

- ◆ Improve household and community access to safe drinking water
- ◆ Promote integrated water optimization technologies
- ◆ Promote environmental and sustainable sanitation systems
- ◆ Enhance knowledge on hygiene behaviour and sanitation practices
- ◆ Improve WASH preparedness in disaster management



## Introduction

For ENPHO, 2016 marks the completion of 25 successful years of service. Established in 1990, ENPHO is a service-oriented, scientific, national non-governmental organization that is contributing to sustainable community development by combining research, action and support in the areas of environment and public health. ENPHO develops and promotes eco-friendly technologies such as water treatment options (e.g. chlorine solution, SODIS, filters), Rain Water Harvesting, ECOSAN toilets and waste water treatment through reed bed systems.

ENPHO promotes integrated community based approaches for safe water, sustainable sanitation, solid waste management, hygiene behavior, improving indoor air, and environmental and air quality monitoring for creating healthy and environmental friendly societies. Knowledge-based education, trainings and advocacy campaigns are provided that help achieving ENPHO's mission.

ENPHO is governed by a General Assembly comprising of 107 members that elects an Executive Board once every three years. The Executive Director leads the 275-member staff of which 42% are women.



## Thematic Programs

### Safe Water

Although Nepal has made significant progress over the years in providing access to drinking water facilities, the quality of the water remains a major concern. In order to increase access to safe water to people, particularly the poor and vulnerable groups, ENPHO is focusing on developing and promoting Point of Use (PoU) water treatment and arsenic mitigation options and advocating Water Safety Plans.

ENPHO is promoting PoU water treatment options such as chlorination, Solar Water Disinfection (SODIS), filtration (colloidal silver filters and Biosand Filters) and boiling. These options have been scaled up both at household and institutional levels throughout Nepal.

### Sustainable Sanitation

ENPHO is promoting sustainable sanitation systems that are economically viable, socially acceptable, technically and institutionally appropriate, and environmentally sustainable. ENPHO is providing services on waste water management; solid waste management; faecal sludge management and developing sanitation systems for urban, peri-urban areas and emerging small towns in Nepal. Additionally, ENPHO has been working with various municipalities to develop City Sanitation Plan.



### Integrated Water, Sanitation and Hygiene

ENPHO is promoting integrated water, sanitation and hygiene in communities, municipalities, small towns and schools for safe water, sustainable sanitation and personal hygiene. The approach of Safe Water, Sanitation and Hygiene for All (SWASTHA) has been used as an integrated WASH approach contributing to improved access to safe drinking water and better sanitation.

### Climate Change Adaptation and Disaster Risk Preparedness

Urban WASH Preparedness and Community Based Disaster Risk Reduction project have been initiated with an aim to reduce human suffering and loss of life during natural disasters. The project on enhancing the health sector preparedness in the event of a high intensity earthquake in Kathmandu Valley is being implemented. Through effective mass casualty management system, the project is aiming to contribute towards prevention and minimization of casualty and damage.

ENPHO is promoting integration of urban agriculture with sustainable sanitation as a potential climate change adaptation strategy. Household level roof-top gardening with use of harvested rainwater and recycling the organic waste is attracting much attention of users, donors and development professionals.