

# ANNUAL REPORT 2017



ENVIRONMENT & PUBLIC  
HEALTH ORGANIZATION



## Environment and Public Health Organization (ENPHO)

# ENPHO Annual Report 2017

### Submitted To:

26<sup>th</sup> Annual General Meeting 2074/2017  
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**16 September 2017**

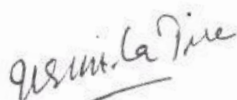


## Message from the Chairperson and the Executive Director

The year 2016-17 was remarkable for ENPHO. We continue to grow and mature, both in terms of quantity and quality. This year we have 275 staff working in 22 different projects at 54 districts in Nepal. We established the partnership with EcoConcen Pvt. Ltd. – a social enterprise, to scale up our services through innovative business model. This is the major milestone in our history as this partnership will significantly contribute in achieving ENPHO's mission and goals. We continued to grow as research-based organization. The publication of first scientific journal "Journal of Environment and Public Health" is another milestone for us. This year we finalized ENPHO's five-year strategic plan that will guide us into the new strategic direction in the future.

The post-earthquake and DRR projects, with financial and moral support of generous donors and partners, continued in the year. Several new projects have been initiated and several are in the pipeline. We have successfully completed 1<sup>st</sup> year activities of five-year SUAHARA II project with good outcomes. We focused on expanding our services on Faecal Sludge Management and Wastewater Management. The detailed feasibility studies on FSM have completed in 11 municipalities. We have received several requests from newly elected municipal representatives from different municipalities for effective management of faecal sludge and wastewater. We have been providing technical support to establish two Decentralized Wastewater Treatment Systems and one Decentralized Solid Waste Management System in various cities. The simple, user-friendly costing tools on sanitation systems has proved to be useful cost estimation tool for the sector. We continued to perform research and monitoring of FSTP in Lubhu and the case study has been presented in several national and international forums. We able to conduct several capacity building activities including an International Training on DEWATS and FSM. The cholera mass awareness interventions contributed in sensitizing general public of Kathmandu Valley on preventive measures of cholera and other water borne diseases. We continued our collaboration with University of Illinois and MIT to perform research on drinking water quality improvements.

We continued to deliver WASH services with funding support mainly from UNICEF, UNHABITAT, HKI, OXFAM, JICA, Practical Action Nepal, WaterAid, CAWST, BORDA, EAWAG, WASTE, RUAF and Fund Board. The year 2016-17 was phenomenal at ENPHO in many ways. We thank the staff, partners, government agencies and donors for this excellent year. We are committed to delivering quality services through continued partnership and collaborations with all.



**Ms. Urmila Joshi**  
Chairperson



**Bipin Dangol**  
Executive Director





## Acknowledgement

ENPHO sincerely acknowledges the technical, financial, moral and institutional support provided by the following partners in achieving our mission.

- 500B Solutions Pvt. Ltd.
- ACF
- Action Nepal
- Alternative Energy Promotion Center (AEPC)
- American Embassy
- Asian Development Bank
- Asian Institute of Technology (AIT), Thailand
- Australian Embassy
- Bagmati Rural Municipality (Gimdi)
- Baishnodevi Fiber Udhog
- Bandana Trading Concern (BTC)
- Bardiya Municipality
- Bhaktapur Municipality
- Best Paani Pvt. Ltd.
- Bharatpur Wastewater Treatment Plant
- Biosand Filter Entrepreneurs' Association Nepal (BiFEAN)
- Birendranagar Municipality
- Bremen Overseas Research and Development Association (BORDA), Germany
- B.P.S. Traders
- Budhanilkantha Municipality
- Care Nepal
- Centre for Affordable Water and Sanitation Technology (CAWST), Canada
- Center for Integrated Urban Development (CIUD)
- Centre Horticulture Centre (CHC)
- Changunarayan Municipality
- Clean Energy Nepal (CEN)
- Creative Media House Pvt. Ltd
- Crossover Nepal Pvt. Ltd.
- Consortium of DEWATS Dissemination Society (CDD Society), India
- CEMAT lab
- Center for Research for Environment Energy and Water (CREEW)
- Dashinkali Municipality
- DEPROSC Nepal
- Department of Food Technology and Quality Control (DFTQC)
- Department for International Fund Development (DFID)
- Department of Plant Resources
- Department for Water Supply and Sewerage (DWSS)
- Design and Print Pvt. Ltd.
- Dhulikhel Hospital
- Dhulikhel Municipality
- District Education Office (DEO)
- District Public Health Office (DPHO)
- District WASH Coordination Committee (DWASHCC) of various districts
- DISVI International, Italy
- Drinking Water Supply and Sanitation Division Office (DWSSDO) of various districts
- Dubai EXPO 2020
- Dutch WASH Alliance (DWA)
- Equal Access Nepal
- Eco Concern Pvt. Ltd.
- European Commission
- Faith International
- FAMAS.Com Pvt Ltd
- FHI 360
- Federation of Drinking Water and Sanitation Users' Committee Nepal (FEDWASUN)
- Focus Nepal
- Gagan Chumbi Sagarmatha Catering & Tent House
- Global Affairs Canada (GAC)
- Godawari Municipality
- Gramin Janahit Sewa Samiti (JGSS)
- Graphics Interior Solutions Pvt. Ltd.
- Gulmeswor Trading Private Limited
- Gulariya Municipality
- Guthi
- Helen Keller International (HKI)
- HELVETAS Nepal
- Home Net Nepal
- iDream Technology Pvt. Ltd.
- Impact Marathon Series (IMS)
- Imperial College, London

- Innovative Solution Pvt. Ltd.
- Japan International Cooperation Agency (JICA)
- Japan World Water Forum
- J.P. Art Center
- Janaki Technology Private Limited
- Jaya Baba Biswokarma Enterprises
- Kamala international
- Krishna Metal and Medical Equipment Industries
- Kathmandu Metropolitan City
- Kathmandu University
- Kathmandu Upatyaka Khanepani Limited (KUKL)
- Karyabinayak Municipality
- Kyonjosho Rural Municipality (Chaughare)
- Lalitpur Metropolitan City
- LUMANTI Support Group for Shelter
- Madhyapur Thimi Municipality
- Mahalaxmi Municipality
- Mahankal Rural Municipality (Thula Durlung)
- Massachusetts Institute of Technology (MIT), USA
- MinErgy Pvt. Ltd.
- Ministry of Urban Development
- Natural Graphics
- Nature's Conservation
- Nepal Bureau of Standards & Meteorology (NBSM)
- Nepal Engineering College (NEC)
- Nepal Red Cross Society (NRCS)
- Nepal WASH Alliance (NWA)
- Nepal Water For Health (NEWAH)
- Nepali Technical Assistance Group (NTAG)
- Nepal Bangladesh Bank Ltd
- Nepal Creative House Pvt. Ltd.
- New Camera Home
- New Loyal Distributor Pvt. Ltd
- New Manakamana Furniture
- Nissan Security Service Pvt. Ltd.
- Niva construction Pvt Ltd
- NGO Forum for Urban Water & Sanitation
- One Planet Solution Pvt. Ltd.
- Oxfam Nepal
- Panauti Municipality
- Park Village Water Front Resort, Pokhara
- Plan International Nepal
- Practical Action Nepal
- Pulse Inc Pvt. Ltd.
- Rain Foundation, Netherlands
- Raj Media and Marketing
- Rajdhani Fast Food
- Rotary International
- RUAF Foundation, the Netherlands
- Rural Water Supply and Sanitation Fund Development Board
- Saligram Bal Griha, Lubhu
- Sagarmatha Insurance Company Limited
- Sambridhi Enterprises
- Sharada Media & Printers Pvt. Ltd
- Shrestha Photocopy
- Sine wave Electronics Pvt. Ltd.
- Standard Chartered Bank Nepal Limited
- Subisu Cabienet Pvt. Ltd
- Shree Satya Sai Shiksha Sadan, Tokha
- Siddhipur Water Supply and Sanitation User Organization
- Srikhandapur Wastewater Treatment Plant Management Committee
- SNV Nepal
- Social Welfare Council (SWC)
- Society for Urban Poor (SOUP)
- Soil Test Pvt. Ltd
- SOMNEED Nepal
- SOYA
- SPUR
- Standard Metrology Testing and Quality (SMTQ) forum Nepal
- Stockholm Environment Institute, Sweden
- Sustainable Sanitation Alliance (SuSanA)
- Sushma Koirala Memorial Hospital
- Swedish International Development Cooperation Agency (Sida)
- Swiss Federal Institute for Environment Science and Technology (Eawag), Switzerland
- Terrain Nepal travels and tours
- The Bill & Melinda Gates Foundation
- The Humanitarian Water and Food Award (WAF Award)
- Tribhuwan University
- United Nations Children's Fund (UNICEF)
- United Nations Human Settlements Program (UN Habitat)

- United States Agency for International Development (USAID)
- University of Illinois, USA
- University of Kyoto, Japan
- University of Yamanashi, Japan
- United Insurance Ltd
- Urban Environment Management Society (UEMS)
- Varietie Traders
- Vijaya Development Research Centre (VDRC)
- WASTE, The Netherlands
- Water Supply and Sanitation Division Office (WSSDO)
- Water Aid Nepal
- Water Engineering Pvt. Ltd.
- Water, Sanitation and Hygiene- Resource Centre Network Nepal (WASH RCNN)
- Women for Human Rights (WHR)
- World Bank
- World Health Organization (WHO)
- World Vision Nepal (WVN)
- Worldwide Print Solution
- Yeti Bag Udyog











## Vision

Creating Eco-Societies

## Mission

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





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## Introduction

Envisioning to “**Creating Eco-Societies**” and touching the lives of millions with its services, Environment and Public Health Organization (ENPHO) was established on 4 November 1990. Since then, it has been taking initiatives and actions in the areas of water, sanitation and hygiene (WASH), environment and public health. Research,



innovations and promotion of the WASH technologies and approaches have been a core priority of ENPHO.

ENPHO, a service-oriented, scientific, national non-governmental organization is constantly striving towards sustainable community development by developing, demonstrating and disseminating eco-friendly technologies (eg. Rain Water Harvesting, EcoSan Toilets, DEWATS) and water treatment options (eg. Chlorine solution, SODIS, filters). ENPHO promotes integrated community based approaches for safe water, sustainable sanitation, solid waste management, hygienic behavior, improving indoor air, and environmental and air quality monitoring for creating healthy and environment friendly societies.

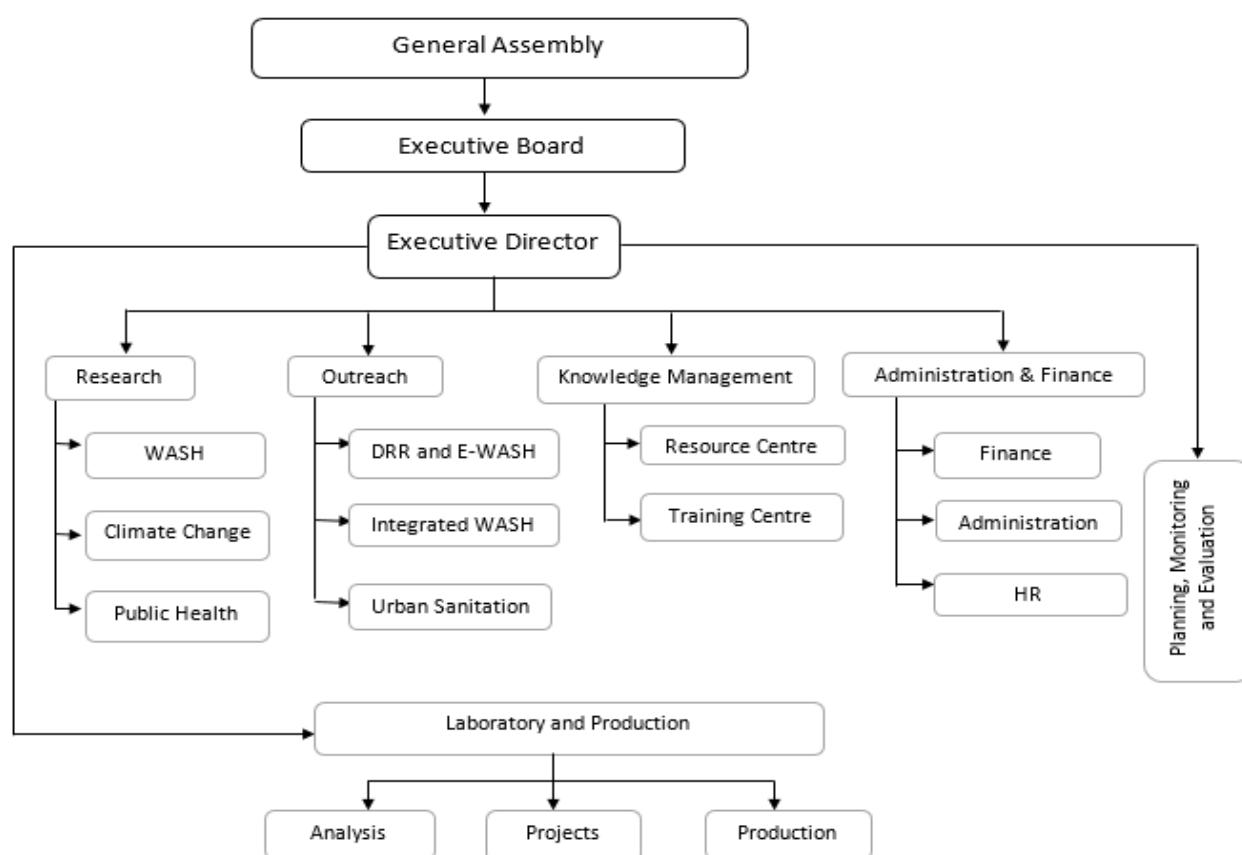
### Strategic Objectives

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



**ENPHO has been promoting**

- PoU water treatment options
- Sustainable sanitation systems
- Integrated water, sanitation and hygiene
- Urban WASH preparedness and community based disaster risk reduction
- Integration of urban agriculture with sustainable sanitation as a potential climate change adaptation strategy



**Organizational Structure of ENPHO**

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 staff members of which 42% are female.

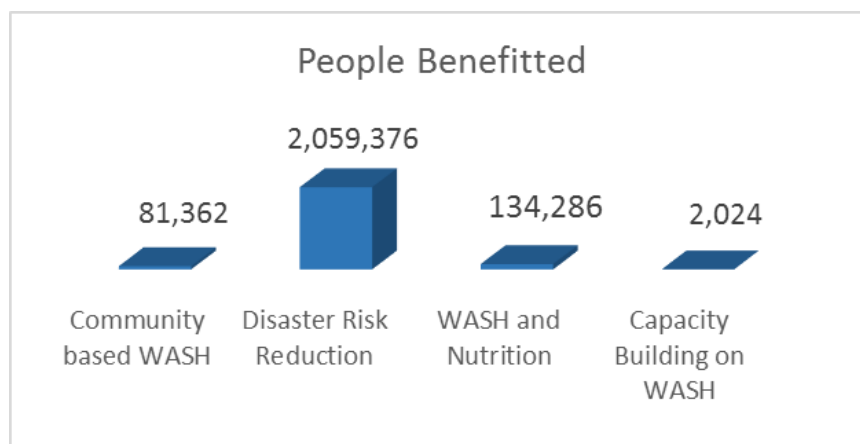
## ENPHO's Milestones

<b>1990</b>	Water quality monitoring of Bagmati River and Kathmandu's water supply system
<b>1992</b>	Initiated air quality monitoring for the first time in Nepal within Kathmandu Valley
<b>1994</b>	Production and distribution of "Piyush" chlorine solution
<b>1997</b>	Introduced Constructed Wetland for Wastewater Treatment System in Nepal
<b>2000</b>	ENPHO Laboratory accredited by a Government body "Nepal Bureau of Standard and Metrology" under NEPLAS system based on ISO 17025
<b>2000</b>	Production of ENPHO test kit, Arsenic testing and mitigation activities initiated in the Terai
<b>2001</b>	Initiated research on SODIS and EcoSan
<b>2003</b>	Received award for Kanchan™ Arsenic Filter at World Bank Development Marketplace
<b>2005</b>	Environment award from Ministry of Environment, Science and Technology
<b>2006</b>	Carried out Country Environment Analysis for the World Bank
<b>2007</b>	Initiation of Integrated Community based WATSAN Programme and declaration of Open Defecation Free (ODF) at community level
<b>2008</b>	Scaling up of waste water treatment system at municipal level and integration of bio-gas system
<b>2009</b>	Received "Partnership for Clean Indoor Air (PCIA)" award for air quality improvement
<b>2009</b>	Establishment of Environment and Public Health Institute (ENPHI) within ENPHO
<b>2009</b>	Initiation of <i>Paschim Paaila</i> - A youth campaign against diarrhea epidemic in Western Nepal
<b>2009</b>	Establishment of Nepal Node for Sustainable Sanitation
<b>2010</b>	ODF declaration at VDC level
<b>2011</b>	EcoSan poster attained the first prize in pre-SACOSAN IV in Colombo, Sri-Lanka
<b>2012</b>	Started working on urban disaster risk reduction with focus on emergency WASH
<b>2013</b>	Promotion of Roof Top Agriculture as an adaptation for climate change
<b>2014</b>	Faecal Sludge Management- service delivery, business model and private sector engagement- in Kathmandu Valley
<b>2015</b>	Winner of the 4 <sup>th</sup> Kyoto World Water Grand Prize
<b>2015</b>	Co-winner of the Humanitarian Water and Food (WAF) Award
<b>2016</b>	Establishment of first pre-fabricated faecal sludge treatment plant
<b>2017</b>	<ul style="list-style-type: none"> <li>• Partnership with EcoConcern Pvt. Ltd.</li> <li>• Publication of ENPHO's first Scientific Journal - "<i>Journal of Environment and Public Health</i>"</li> </ul>



## Our Work at a Glance

During the fiscal year 2016/17, ENPHO carried out various projects and programs in the areas of water quality, sustainable sanitation, and community based water, sanitation and hygiene, disaster risk reduction, research and development, WASH and nutrition and capacity building on WASH. With the support of various donors, partners and supporters, ENPHO has been able to conduct 22 projects benefitting 2,277,048 people directly and indirectly.



Altogether, 22 projects were carried out in which 10 projects have been completed and 12 are ongoing. Out of 22 projects, 1 was on “Water quality”, 1 on “Sustainable Sanitation”, 5 on “Community Based Water, Sanitation and

Hygiene”, 9 on “Disaster Risk Reduction”, 3 on “Research and Development”, 1 on “WASH and Nutrition”, 2 on “Capacity Building on Water, Sanitation and Hygiene”. Within this fiscal year, altogether, 81,362 people were benefitted through various community based WASH projects, 2,059,376 people through emergency response and disaster risk reduction projects, 134,289 people through WASH and Nutrition projects and 2,020 WASH professionals benefitted through capacity building projects and programs. Likewise, altogether 117,946 units of Piyush and 31,359 units of Piyush Plus units were sold in partnership with EcoConcern Pvt. Ltd.

Likewise, in this fiscal year, ENPHO succeeded in declaring 4 wards and 1 VDC as ODF zone and 1 community as SWASTHA community benefitting 8,420 population and 1,769 population, respectively. Similarly, ENPHO also commenced a self-initiated project “Supporting Educational and Environmental Development in School (SEEDS), envisions to aid a school to create an exemplary models in terms of education and environment.

ENPHO capacitated 2,020 WASH professionals on WASH from 346 NGOs, 9 INGOs and 69 government local authorities. Altogether, 93 training events were conducted, out of which 50% percent of training event were on-demand from WASH implementing organizations. In addition to this, ENPHO published a first edition of “Journal of Environment and Public Health”. The journal resonates with the theme of World Water Day 2017 - ‘Wastewater’ and highlights the research papers on Wastewater Management, Faecal Sludge Management, City Sanitation Planning, Productive Reuse and Bagmati River Quality. Similarly, on the occasion of World Toilet Day 2016, a Special Bulletin was published, which provided a key highlights about ENPHO’s contribution in environment and sustainable sanitation.

## Thematic Programs

### 1. Safe Water

#### Key Highlights

During the fiscal year 2016/17, water samples were collected and water quality analysis (physico-chemical and microbiological) of 147 different water sources was conducted under the “Water Quality Testing and Analysis for Development Phase Batch – X Schemes, Package 1” project in 9 various districts of mid-western and far-western development region of Nepal.



For this fiscal year 2016/17, ENPHO made cooperation agreement with EcoConcern Pvt. Ltd. to produce, market and distributed ENPHO products including Piyush and Piyush plus. This year altogether 117,946 units of Piyush were sold. Awareness on Piyush was raised through various projects, partners’ awareness raising programs, campaigns and social marketing approaches. Similarly, altogether, 31,359 units of Piyush Plus were sold in this fiscal year.



**117,946**  
**units**  
of Piyush were  
sold

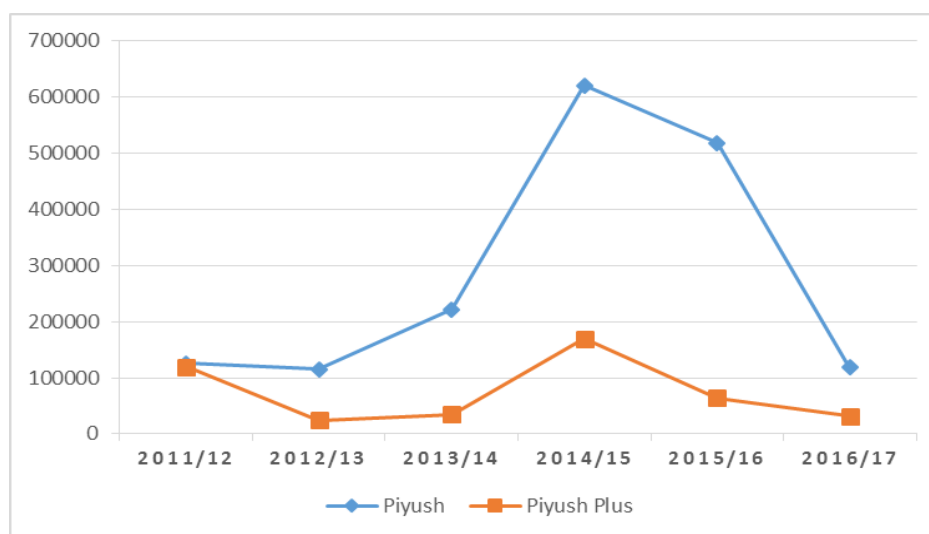


**31,359**  
**units**  
of Piyush Plus  
were sold

## 1.1 Production and Distribution of Piyush and Piyush Plus

### Piyush

Use of chlorination solution is one of the most widely used methods for water disinfection in Nepal. Developed as a response to control water borne disease epidemic in eastern Terai region of Nepal more than two decades back, in 1994, Piyush is still being used and has been accepted in both rural and urban contexts of Nepal as one of the most used chlorine solution. Piyush has been promoted through various projects, partners' and social marketing approaches by ENPHO and EcoConcern. In this fiscal year, altogether 117,946 units of Piyush were sold.



### Piyush Plus

Piyush Plus is another chlorination solution for disinfecting larger volumes of water. ENPHO has been producing Piyush Plus in 240 mL bottles since 2010. A bottle of Piyush Plus can disinfect 1200 litres of water. Altogether, 31,359 units of Piyush Plus were sold in this fiscal year.

Both the chlorination solutions have been popular since they are easy-to-use, reliable, cost-effective and are easily available in the pharmacies and stores. Additionally, ENPHO has also been producing 1% chlorine solution for disinfecting even higher volumes of water, e.g. water tankers, reservoirs. Recently, demand for 1% chlorine solution is also increasing.

## 1.2 Water Quality

### 1.2.1 Water Quality Testing and Analysis for Development Phase Batch - X Schemes, Package 1

**Status: Completed**

**Project Partner:** Rural Water Supply and Sanitation Fund Development Board (RWSSFDB)

**Project Area:** Dolpa, Mugu, Jumla, Kalikot, Jajarkot, Rolpa, Rukum, Surkhet and Bardiya

**Project Duration:** 30 March, 2017 - 15 July, 2017

**Aim:**

To test the water quality of sources in order to determine whether water of acceptable quality could be delivered from the sources, and to propose appropriate protection measures for providing safe water.

**Project Description:**

The project aims to test the physico-chemical and microbiological characteristics of water samples and compare them with Nepal Drinking Water Quality Standards (NDWQS), 2062 and to evaluate its acceptability for drinking purpose. Besides, determination of Langelier Saturation Index (LSI) aims to describe any scaling or corrosion potential of the water samples. The sanitary inspections of the source are directed towards identification of any probable pollution sources and to recommend mitigation measures wherever necessary.



The project area includes Dolpa, Jumla, Mugu, Kalikot, Rukum, Rolpa, Surkhet, Jajarkot (gravity flow schemes) and Bardiya (ground water schemes) districts. Among the 107 schemes (4 ground water schemes and 103 gravity flow schemes), altogether 147 samples were collected, 138 proposed samples and 9 samples from new sources of project area.

Altogether 19 parameters namely pH, taste and odour, electrical conductivity, turbidity, colour, total dissolved solid, total alkalinity as CaCO<sub>3</sub>, iron, calcium, ammonia, fluoride,

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nitrate, chloride, total hardness as CaCO<sub>3</sub>, Manganese, Arsenic (only for Tube Well Schemes), Total Coliform and *E. coli* for the water samples were tested. For gravity flow schemes, LSI was also determined for the samples.

### **Project Outputs:**

- Prepared a detail report regarding the physico-chemical and microbiological quality of the water source.
- Determined Langelier Saturation Index of the gravity flow schemes
- Identified sanitation condition of the source water

### **Major Achievements:**

- Mapping of GPS point of the majority of the source and collection of the data using Kobo Toolbox.



## 2. Sustainable Sanitation

### 2.1 Consulting service for construction of Decentralized Wastewater Treatment System (DEWATS)

**Status: Ongoing**

**Project Partner:** Dhulikhel Hospital

**Project Area:** Dhulikhel Hospital, Kavre

**Project Duration:** June 2017 to June 2019

**Aim:**

To design, estimate and supervise the construction of DEWATS at Dhulikhel Hospital premises, Kavre.

**Project Description:**

This project provided consultancy services to Dhulikhel Hospital to design and construct Decentralized Wastewater Treatment Plant (DEWATS) to treat wastewater in Dhulikhel Hospital. Furthermore, this project provided the operation and maintenance training for caretakers for the sustainability of DEWATS. DEWATS is an approach which encompasses technical, local economic and social aspect to treat wastewater making maximum use of wastewater from domestic or industrial sources. Also, it produces renewable energy depending upon the treatment components. Biogas reactor supplies biogas for cooking and lightening purposes.



**Project Outputs:**

- Prepared detail engineering design report

**Major Achievement:**

- Agreement with Dhulikhel Hospital to establish DEWATS.

**Targeted Beneficiaries:**

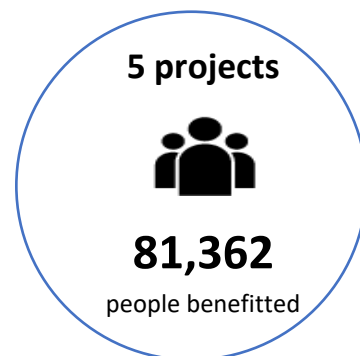
3,629 people

### 3. Community Based WASH

#### Key Highlights

ENPHO believes in promoting sustainable systems that are economically viable, socially acceptable and technically and institutionally appropriate; and protect the environment and natural resources.

During the fiscal year 2016/17, with the support of UN-Habitat, Nepal Red Cross Society – Bara District Chapter, RUAF Foundation, WASTE- the Netherlands, and Water Aid Nepal, ENPHO implemented altogether, **5 projects** under the “Community based WASH” program benefitting **81,362** people. ENPHO is involved in community based WASH projects to increase access WASH facilities through integrated approach and ultimately improve the health of the people.



This year, ENPHO commenced a self-initiative project “Supporting Educational and Environmental Development in School (SEEDS) Initiative”. This project envisions aiding a school to become exemplary models in terms of education and environment.

#### Major Achievements:

- Commenced a self- initiative project “SEEDS” and adopted Shree Shreekhandaipur Secondary School, Kavre
- Declaration of one VDC as ODF zone
- Sirhowa VDC of Bara district declared as ODF zone.
- Developed two community sanitation model community (Bharatgunj Singoul – ward no. 2 and Kuntol of Jitpur –Samara Sub-metropolitan city – ward no. 3)

<p><b>4,350</b> Biogas toilet constructed</p>	<p><b>5,860</b> Toilet constructed</p>	<p><b>52</b> Jhuthelno constructed</p>
<p><b>80</b> Improved Cooking Stove</p>	<p><b>50</b> Animal Shed constructed</p>	<p><b>3</b> Rainwater harvesting installed</p>



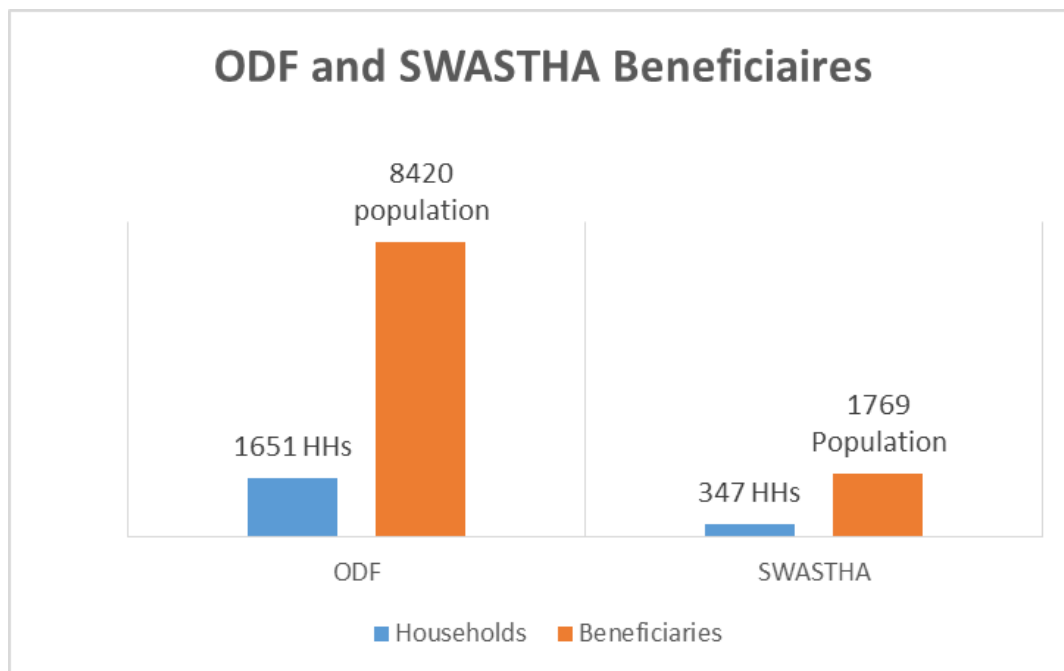
## ODF Declarations

- Sirhowa VDC of Bara District was declared as Open Defecation Free (ODF) VDC with the support of ENPHO, Nepal Red Cross Society - Bara District Chapter. Under the “Open Defecation Free Campaign at Bara District” project, ENPHO constructed the 607 toilets benefitting 3096 individuals. (9 April, 2017)
- Under the “SUA AHARA II” project, Ramche – Ward no. 1 of Kalika Gaupalika, Rasuwa district, declared as ODF zone. Altogether, 160 toilets was constructed benefitting 816 individuals. (7 May, 2017)
- Holiya – Ward no. 1 of Duduwa Gaupalika, Banke district, declared as ODF zone, under the “SUA AHARA II” project. Altogether, 694 toilets was constructed in the ward benefitting 3539 people. (30 May, 2017)
- Chilime – Ward no. 9 of Parbati Kunda Gaupalika, Rasuwa district was declared as ODF zone, under the “SUA AHARA II” project. Altogether, 128 toilets was constructed and 653 people now have access to improved sanitation facilities. (13 June, 2017)
- Palchowk – Ward no. 3 of Helambu Gaupalika, Sindhupalchowk district was declared as ODF zone under the “SUA AHARA II” project. Altogether, 62 toilets was constructed and benefitted 316 people in the ward.



### SWASTHA Declaration

Gilung – Ward no. 9 of Kohlaottar Gaupalika, Lamjung district was declared as “SWASTHA” community under the “SUAHARA II” project. SUAHARA II contributed in making 347 households of the ward as total sanitation household. (21 April, 2017)



### 3.1 Open Defecation Free Campaign in Bara District (Phase- II)

**Status: Ongoing**

**Project Partner:** UN-Habitat, Nepal Red Cross Society- Bara District Chapter

**Project Area:** 10 VDCs of Bara District (Sihorwa, Rampurwa, Uttar Jhitkaiya, Kolhabi, Sapahi, Pipara Simara, Dohari, Haraiya, Bhodaha and Karaiya)

**Project Duration:** July 2016 to December 2017

**Aim:**

To support the government's initiatives to execute ODF campaign in Bara District sector coordination and capacity development

**Project Description:**

The Government of Nepal has set the national target of achieving ODF status by 2017. To implement the ODF campaign activities in coordinated manner, the GoN has published sanitation and hygiene master plan as a guiding document. Since then, the ODF campaign has been intensified at all levels with sector coordination, capacity building and community mobilization approach.

Bara is one of those 8 districts where sanitation coverage is about 27%. ENPHO has been working together with Nepal Red Cross Society – Bara District Chapter to implement GSF project activities at 10 VDCs.



**Project Outputs:**

- Reformed two VDC WASH Coordination Committee (V-WASH-CC)
- V-WASH-CC members, political leaders, FCHV, WCF, CAC, Security person mobilization for VDC level monitoring visit, intensive sanitation campaign, monitoring and follow up.
- Celebrated National Sanitation Week coordinating awareness program in 9 VDCs
- Uprooted Subsidy approach in all working VDCs.
- Toilets construction increased rapidly during program period

**Major Achievements:**

- Sihorwa VDC declared as ODF zone
- Developed 2 community sanitation model community (Bharatganj Singoul - ward no 2 and Kunatol of Jitpur- Samara Sub-metropolitan City - ward no 3) that includes 5+1 indicators of sanitation formed Tole WASH Coordination Committee in 7 VDCs.
- Formed Tole Rehabilitation Committee in four wards of Jitpur, Simara Sub-metropolitan City.

**Beneficiaries:**

S.N	VDC	Female	Male	Total
1	Rampurwa	748	452	1200
2	Haraiya	5404	4529	10833
3	Karaiya	791	958	1749
4	Kolhabi	740	543	1283
5	Sapahi	325	459	784
6	Pipara Simara	4613	4278	8891
7	Uttar Jhitkaiya	625	835	1460
8	Bhodaha	1224	2395	3619
9	Sihorwa	451	748	1199
10	Dohori	499	377	876
<b>Total</b>		<b>16320</b>	<b>15574</b>	<b>31894</b>

**Total Beneficiaries from the Project**

**31,894** people (**16,320** female and **15,574** male)



## 3.2 Supporting Educational and Environmental Development in School (SEEDS)

**Status: Ongoing**

**Supported by:** Impact Marathon Series  
**Project Area:** Shree Shreekhandapur Secondary School  
**Project Duration:** April 2017 to March 2018

**Aim:**  
 To develop school as a WASH model school

### Project Description:

WASH in school is globally recognized as a key intervention to promote children's right to health and clean environment and to influence a generational change in health promotion behavior and attitudes. It is now known that not only the quality of teaching but also the environment, especially the availability of safe drinking water and sanitation together with good hygiene practices and influential learning.



The SEEDS initiative envisions aiding selected schools to become exemplary models in terms of education and environment – functional and well maintained WASH facilities, classrooms, buildings, computer and science labs, library and sports facilities. Furthermore, after a thorough WASH assessment of various schools, Shreekhandapur Secondary School, Shreekhandapur, Kavre has been as the first school for the implementation of the SEEDS Initiative.

During the initial phase of the SEEDS Initiative, ENPHO collaborated with Impact Marathon Series; an England based organization working to support the 17 UN Global Goals via organizing fundraising marathon events in various countries. The SEEDS Initiative capitalizes on ENPHO's expertise to adopt schools – initially focusing on the WASH facilities and ultimately developing the selected schools into exemplary models via both hardware and software interventions under the school-lead paradigm.

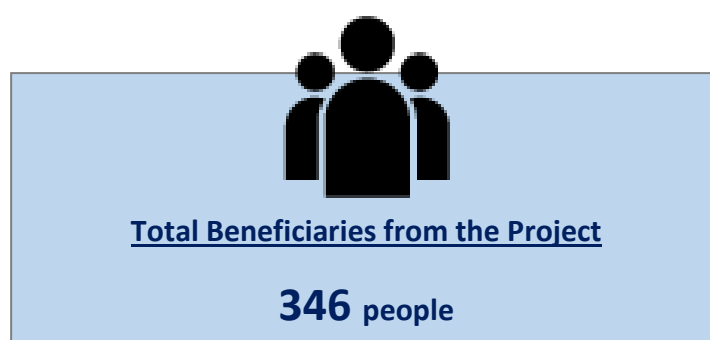
### Project Outputs:

- Improved sanitation facilities by repairing urinal toilet
- Constructed handwashing station and drinking water station

- Installed rain water harvesting system
- Constructed soak pit and burning chamber
- Maintenance of library room and science Lab
- Constructed badminton court and table tennis board
- Installed brick pavers
- Trained SMC, PTA and teachers on school WASH.
- Trained child club members on reuse and recycling of solid waste
- Conducted exhibition on water and sanitation.

**Beneficiaries:**

- Benefitted 318 students (177 female and 141 male)
- Benefitted 7 SMCs and 21 teachers



### 3.3 Promote Safe & Productive Use of (Solid & Liquid) Waste for Food Production around Urban Areas in Surkhet

*Status: Completed*

**Project Partner:** Resource Centre on Urban Agriculture and Food Security (RUAF Foundation) & WASTE-The Netherlands

**Project Area:** Birendranagar Municipality and Kunathari VDC, Surkhet

**Project Duration:** March 2016- December 2016

**Aim:**

To promote safe and productive use of (solid and liquid) wastes for food production

**Project Description:**

This project is developed for implementation of WASH programme on productive reuse in urban settlements and peri-urban areas of Surkhet District. For the productive reuse, a transition scenario of Surkhet with focus on urban region to WASH and food security that also includes re-use. Analysis and development of re-use component such as amount, quality, price of water and nutrients and potential users, urban or rural farmers and cost benefit was conducted for the sanitation systems with re-use aspect. Also, monitoring protocol with indicators on nutrients, water, agricultural production and income generation

will also be developed based on FIETS framework of WASH and linked with WASH PME framework.

**Project Outputs:**

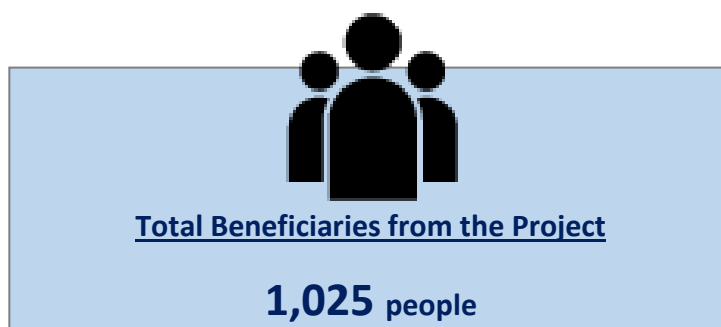
- Capacitated local stakeholders including JTA students on productive reuse and urine application research with different vegetables.
- Developed system and Urine Application Curriculum for agricultural school.
- Participatory research conducted on selected urban, peri-urban and rural farmers.
- Design, adaptation and validation of re-use component to existing and new sanitation systems.
- Training to support in developing faecal sludge management plan and revision of M-WASH plan with incorporation of productive reuse.
- Promotion of Kitchen Gardening and Roof Top Farming.
- Trained women on "Productive re-use & urban agriculture"



**Major Achievements:**

- Developed factsheet on "Integrated School WASH in Surkhet"
- Regional workshop on " Urban Sanitation and Urban Agriculture - An Opportunity of Scaling Up in Mid -Western Development Region" conducted
- Research on Urine application in vegetables conducted in two JTA schools
- Developed "Curriculum of Urine Application on JTA course of study"
- Practice of urine in agriculture by famers using EcoSan toilet.

**Beneficiaries:**



### 3.4 Sustainable Water, Sanitation and Hygiene (SWASH) Project

**Status: Completed**

**Project Partner:** WASTE-The Netherlands, the RUAF Foundation, WASH Alliance Nepal

**Project Area:** Birendranagar Municipality and Kunathari VDC, Surkhet

**Project Duration:** January 2016 to December 2016

**Aim:**

To improve the health and WASH facilities through integrated approach in Surkhet district.

**Project Description:**

Sustainable Water, Sanitation and Hygiene (SWASH) Project was implemented in different wards of Birendranagar municipality and Kunathari VDC of Surkhet district in close coordination with different stakeholders. This project was the continuation of the five year WASH program (2011-2016) of WASH Alliance International. The major objective of this project was to accelerate sustainable WASH via FIETS approach and to reach access of safe drinking water, sanitation services and hygiene facilities in different wards of Birendranagar municipality and Kunathari VDC of Surkhet district.



Capacity building of local people, service delivery and advocacy, social campaigning were the major components of the project. Environmental sanitation, promotion of EcoSan toilet with biogas attached, urine application in agriculture, declaration of healthy communities to lead total sanitation and solid waste management at household levels were the key deliveries of the project.

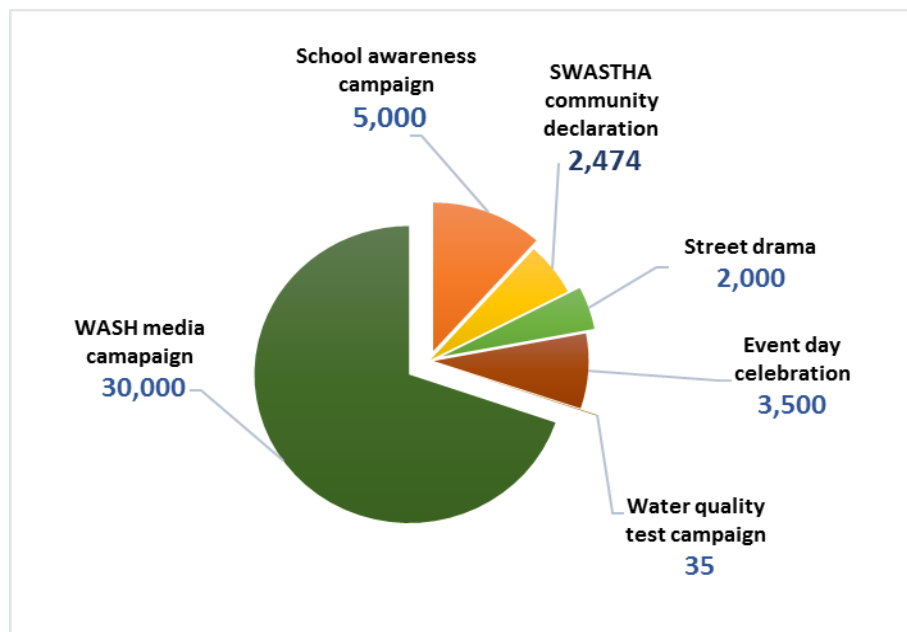
**Project Outputs:**

- Implemented total sanitation campaign through declaring SWASTHA communities.
- Constructed public toilet through PPP model.
- Facilitated for solid waste management in communities.
- Strengthened linkages between WASH and local finance institutions.
- Developed business plan for scaling WASH promotion.
- Capacitated local stakeholders and communities on safe water and proper sanitation.
- Promotion of EcoSan toilet
- Research on urine application.



**Major Achievements:**

- 6 communities declared as SWASTHA communities (Amrit Danda (BNM -13), Bich Tole (BNM-15), Padampur (BNM-16), Bidhyalaya Tole (BNM-14), Chandani Tole, Samabeshi and Matthilo Dharapani Tole)
- Developed FSM business plan
- Use of EcoSoan toilet for urine application by 50 farmers
- Construction of one public toilet
- Adapted roof top farming at urban areas and management of solid waste
- A “Regional Workshop on Urban Sanitation and Urban Agriculture - An Opportunity of Scaling Up in Mid -Western Development Region” successfully conducted
- Conducted research on urine application on different crops by 2 JTA schools



*Fig: Number of people reached through various campaigns*

**Beneficiaries:**

Birendranagar Municipality: 16,000 people reached

Kunathari VDC: 719 people reached

**Total Beneficiaries from the Project**

**16,719 people**

### 3.5 Sustainable Water, Sanitation and Hygiene (SWASH) project

**Status: Completed**

**Project Partner:** Water Aid Nepal

**Project Area:** Nagarkot Municipality – Ward no. 11,12,13 of Bhaktapur District  
Shankarapur Municipality – Ward no. 6,7,8 of Kathmandu District

**Project Duration:** April 2013 to December 2016

**Aim:**

Increase access towards water and sanitation in project area and develop healthy society.

**Project Description:**

Sustainable Water, Air, Sanitation and Hygiene (SWASH) Project at Nagarkot, Bhaktapur is a community based WASH project, implemented since 2013. The project intended to ensure the provision of safe drinking water, improved sanitation and good hygiene practices that allow people to live with good health, dignity and comfort. Nagarkot was severely hit by the massive earthquake of April 2015, therefore, the project had been redesigned to focus on the integration of water, sanitation and hygiene (WASH) and disaster risk

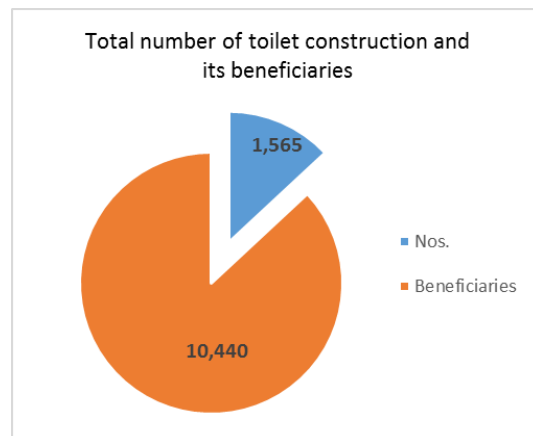
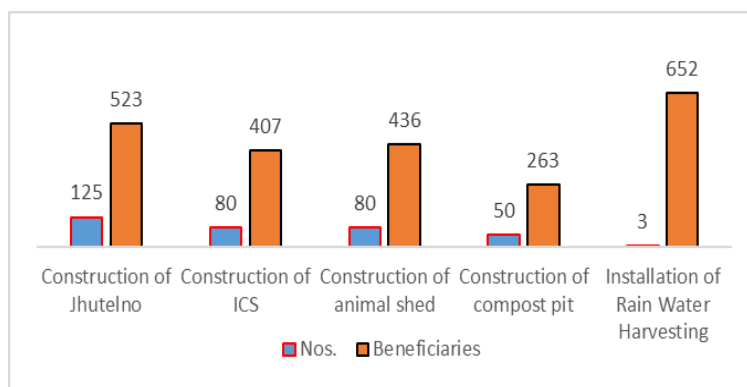


reduction (DRR). Thus, the project focused on rebuilding and recovering damaged WASH facilities within the community and institutions and sensitizing community people on disaster preparedness. Furthermore, the project focused on strengthening and institutionalization of water supply users committee and WARD-WASH-CC for sustainability as well as capacity development.

**Project Outputs:**

- Constructed and rehabilitated 19 community water supplies at community level.
- Improved WASH facilities in 2 public schools.
- Constructed 1,561 household toilets, one public toilet, one toilet in health post, and one disable friendly toilet.
- Improved 16 toilet facilities in schools
- Constructed 50 compost pits at household level and constructed 152 *Jhutelno*.
- Installed 80 improved cooking stoves at households level
- Installed 3 rainwater harvesting in schools.
- Environmental Sanitation through establishment of 30 '*Goth Sudhar*' (animal dung management unit).

- Capacitated Water Supply User Committees (WSUCs) on WASH and DRR.
- Provided care taker training to Water Supply Users Committees (WSUCs) on water supply resilience
- Conducted interaction programs with pregnant women and feeding mothers on food hygiene and DRR
- Conducted awareness campaign on WASH in DRR at school and community levels



**Major Achievements:**

- Achieved ODF status of Nagarkot- 6 Bhaktapur
- Achieved ODF status of Shankarapur 6,7,8 Kathmandu
- Three communities (Saulibazar- ward no.11, Dadatole-ward no.12, Bastola Gau-ward no. 11) of Nagarkot municipality attained status of SWASTHA community.

**Beneficiaries:**



6,536 people benefitted from safe drinking water.



12,421 people benefitted from better sanitation facilities



12,421 students benefitted through better hygiene facilities.



**Total Beneficiaries from the Project**

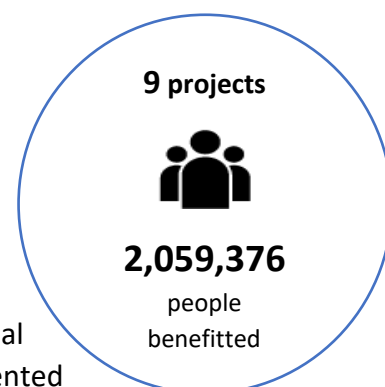
**31,378 people**

## 4. Disaster Risk Reduction

### Key Highlights

Under “Disaster Risk Reduction”, ENPHO implemented **9 projects** with the support of Oxfam, UNICEF, JICA, and Practical Action Nepal benefitting **2,059,376** people directly and indirectly.

ENPHO has been working on disaster risk preparedness in Kathmandu Valley to reduce suffering and loss of life since 2011. After the Nepal Earthquake 2015, ENPHO in collaboration with various agencies implemented emergency WASH response activities in response to the aftermath of devastating earthquake. ENPHO actively moved forward in early rehabilitation and delivering emergency humanitarian WASH services to earthquake affected communities. ENPHO carried out the WASH interventions and has been contributing on emergency and recovery of the affected families.



During the fiscal year 2016/17, ENPHO focused on earthquake recovery and reconstruction aiming to contribute sustainable recovery and reconstruction, reducing risks and increasing

#### Major Achievements:

- Successfully completion of emergency response projects in 7 earthquake affected districts
- Completed emergency response project in Kathmandu Valley
- Focused on cholera outbreaks by implementing effective and appropriate WASH mitigation measures in Cholera/AWD.
- Carried out earthquake recovery and reconstruction program in Lalitpur.
- WASH stockpile established in 15 schools.

resilience among vulnerable households.

<b>465</b> Water Supply Scheme Constructed	<b>12,496</b> Toilet constructed /repaired	<b>15</b> Handwashing station constructed
<b>55</b> Improved Cooking Stove	<b>20</b> Animal Shed constructed	<b>41</b> Rainwater harvesting installed
<b>55</b> Soak pit constructed	<b>20</b> Compost chamber constructed	<b>10,196</b> Emergency Stockpile constructed
<b>1,092</b> Hygiene promotion campaigns	<b>501</b> Cholera response campaigns	<b>599</b> Water quality testings

## 4.1 Earthquake Recovery and Reconstruction Program in Lalitpur (ERRP)

*Status: Ongoing*

**Project Partner:** Oxfam

**Project Area:** Kyanjosom Gaupalika – Ward no. 1 (Chaughare), Bagmati Gaupalika – Ward no. 7 (Gimdi) and Mahankal Gaupalika – Ward no. 6 (Thuladurlung)

**Project Duration:** April 2017 to December 2017

### **Aim:**

To contribute to gender responsive sustainable recovery and reconstruction reducing risk and increasing resilience among vulnerable earthquake affected households.

### **Project Description:**

After the devastating earthquake in Nepal, ENPHO in partnership with Oxfam began to deliver emergency humanitarian services to earthquake affected communities in Kathmandu Valley. In the initial phase of this project, ENPHO carried out WASH interventions followed by initial rapid assessment and relief assistance on WASH, shelter, and gender and protection to support and contribute on emergency and early recovery of the affected families. The first and second phase of emergency response and recovery in Kathmandu, Bhaktapur and Lalitpur has been completed.

Earthquake Recovery and Reconstruction Program project aims to conduct activities in WASH, DRR, and shelter preparedness and reconstruction at community by building up the strong and effective coordination among structure and networks with the approach of inter-sectoral coordination mechanism for efficient and effective service delivery focusing on WASH. Additionally, it is expected that the community will upgrade its status towards resilience.

### **Project Outputs:**

- Conducted 5 events on formation of Community Disaster Management Committee
- Oriented 17 taskforces on Damage and Need Assessment (DANA)
- Oriented 30 taskforces on WASH
- Orientated 20 taskforces on logistic management

### **Beneficiaries:**



**Total Beneficiaries from the Project**

**393 people (201 female and 192 male)**

## 4.2 Cholera/AWD preparedness in DRR approach for Urban WASH

*Status: Ongoing*

**Project Partner:** UNICEF

**Project Area:** Kathmandu Valley (Kathmandu and Lalitpur)

**Project Duration:** April 2017 to November 2017

### **Aim:**

- To build the capacity of targeted institutions and vulnerable groups to increase resilience in cholera/AWD emergency preparedness activities.
- To mitigate the cholera possible outbreaks by effective and appropriate WASH mitigation measures in Cholera/AWD.

### **Project Description:**

This project focuses on developing effective Urban WASH program with key stakeholders, including local authorities, partner NGOs and communities with DRR approach to cholera/AWD emergency. In order to reduce the potential outbreaks, the project primarily targets the private water vendors, food vendors, healthcare professionals, teachers, community leaders, local government authorities and youth groups by creating an enabling environment for sustainable Urban WASH through DRR approach. Furthermore, this project empowers the targeted communities to take lead to improve their WASH conditions and build the capacity of key WASH drivers.



### **Project Outputs:**

- Identified public health hazards hotspot in Kathmandu Valley
- Conducted four days ToT to partner Organization Staffs (POS) on cholera preparedness
- Conducted ToT on E-WASH plan and developed 2 E-WASH plan of health facilities and 2 E-WASH plan of school.
- Emergency preparedness capacity building training and orientation to institutional stakeholders, health facility staffs, FCHVs, teachers, WASH volunteers, women's group, and active group for cholera preparedness.
- Conducted capacity building trainings on mainstreaming DRR Approach to Urban WASH



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- Developed E-WASH plan for two health facilities
- Tested the quality of water of schools and health facilities.

### Major Achievements:

- Developed ToT packages on Cholera/AWD Preparedness Training Package and E-WASH Plan Package
- Developed E-WASH plan for two health facilities in coordination with partner organizations.

### Beneficiaries:

- Benefitted 165 students by conducting “WASH and cholera preparedness campaign” in 5 schools
- Benefitted 14 people including operators, drivers and owners by conducting one day sensitization workshop for faecal sludge operators.
- Collected 190 water samples from food vendors from Kathmandu and Lalitpur Metropolitan City and Godawari Municipality benefitting 9500 people.
- Citizen water quality testing was conducted during booth campaign benefitting 3491 households and 1899 schools.
- Conducted 5 WASH Mobile Booth Campaigns for Cholera/ AWD preparedness awareness benefitting 3705 people



Total Beneficiaries from the Project

**18,987** people

## 4.3 Earthquake Risk Assessment in the Kathmandu Valley (ERAKV)

*Status: Ongoing*

**Project Partner:** JICA

**Project Area:** Lalitpur Metropolitan City - 8, Bhaktapur Municipality - 3 and Budhanilakantha municipality - 2

**Project Duration:** January 2017 - December 2017

### Aim:

This project aims to reduce earthquake disaster risk through effective and sustainable measures.

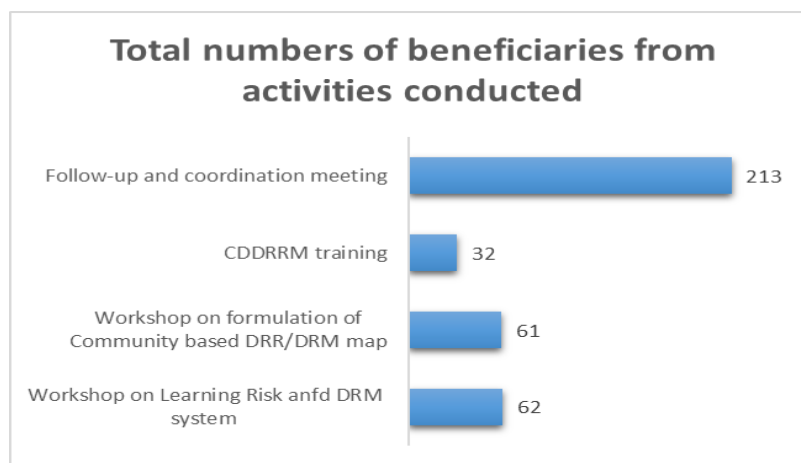


**Project Description:**

In response to the request of the Government of Nepal, the Government of Japan decided to conduct the Project for Assessment of Earthquake Disaster Risk for the Kathmandu Valley (ERAKV) in Nepal. The Japan International Cooperation Agency (JICA) is undertaking the ERAKV project in close cooperation with the authorities concerned of the Government of Nepal.

**Project Outputs:**

- Conducted CBDRRM training to municipality officers and relevant stakeholders which included the participants from Bhaktapur, Lalitpur and Budhanilkantha.
- Conducted workshop on ‘Learning Risk and DRM System in Community’ at LMC – 8 and Budhanilkantha – 2.
- Conducted workshop on ‘Formulation of Community-based DRR/DRM map’ at LMC – 8 and Budhanilkantha - 2.



**Major Achievements:**

- Developed HVCA report of 3 pilot wards.
- Developed and finalized DRM plan of 3 pilot wards.
- Endorsement of ward level DRM plan in municipality's planning process.
- Implementation of DRM plan in 3 pilot wards.

**Beneficiaries:**



#### 4.4 WASH recovery programs in targeted communities and schools

**Status: Completed**

**Project Partner:** UNICEF

**Project Area:** Dolakha, Kavre and Kathmandu

**Project Duration:** 1 August 2016 to 31 January 2017

**Aim:**

To promote and provide access to safe drinking water, sanitation and hygiene practice in selected schools of Dolakha and Kavre districts.

**Project Description:**

ENPHO with the support of UNICEF actively moved forward to assist in early rehabilitation of schools destroyed by earthquake 2015. Assisting in the early rehabilitation, UNICEF and Government of Finland signed an agreement for the WASH early recovery and reconstruction plan. The agreement aimed to reach 60 water supply schemes, aid 100 schools by providing WASH facilities and support systems on strengthening for resilient WASH. ENPHO acted as a local partner for implementing the project in two districts, Kavre and Dolakha respectively. Additionally, this project further promoted the safe drinking water in Kathmandu Valley.

This project served WASH early recovery and rehabilitation facilities in 35 schools of Dolakha and 25 schools of Kavre.



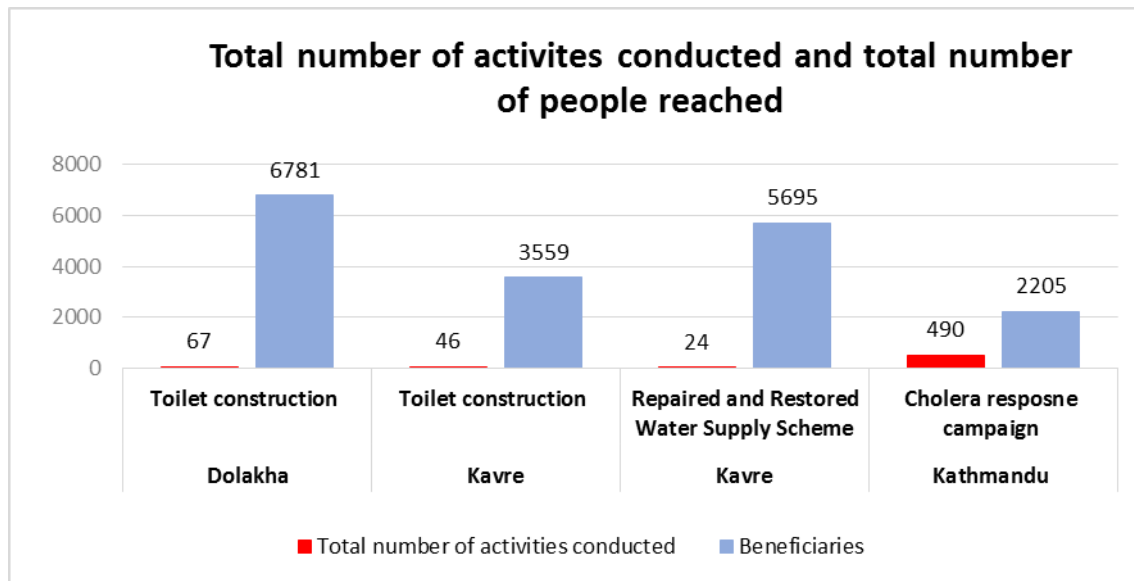
**Project Outputs:**

- Improved hygiene practices including menstrual hygiene management in schools
- Improved WASH facilities in 60 government schools
- Access to safe drinking water in 1500 government schools (5000 CS filters distributed in 1500 schools)
- Enhanced knowledge and practice implementing resilient WASH in school and community

**Major Achievements:**

- Construction of 67 toilets and repaired 46 toilets in selected schools and Transitional Learning Centres (TLC).
- Restored/improved 24 selected water supply schemes
- Distributed 24,100 Piyush in camps, schools and communities through campaigns.
- Distributed 135 CS filters in 60 schools.
- Carried out water quality testing in 490 household in Bafa, Kathmandu.

- Supplied 5000 CS filters with tap fittings




**Beneficiaries:**

Dolakha district: 6,781 people reached

Kavre District: 9,254 people reached

Kathmandu District: 26,916 people reached



**Total Beneficiaries from the Project**

**42,951 people**

## 4.5 Building Back Better, Institutionalizing and Strengthening WASH Sector for Urban WASH Resilience (BISWASH – Project)

*Status: Ongoing*

**Project Partner:** Practical Action  
**Project Area:** Panauti Municipality, Ward no 1 to 12  
**Project Duration:** May 2016 to October 2017

**Aim:**  
 To contribute in making disaster resilient municipalities in Nepal

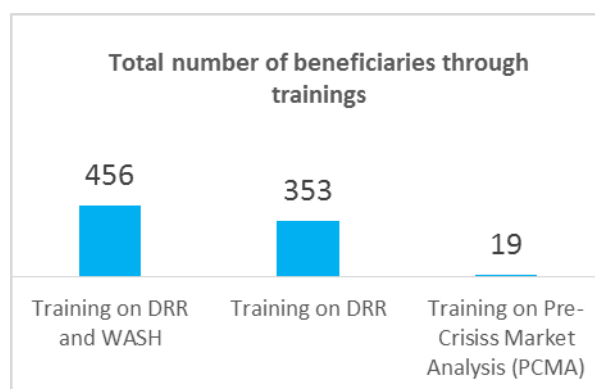
### Project Description:

BISWASH project aims to strengthen the capacity of stakeholders in creating disaster resilient Panauti Municipality with a focus on WASH and support for replication of good practices within all ward of Panauti Municipality. The project facilitates local government planning processes (LGCDP) to allocate funds for DP/DRR at local and municipal levels. The project mobilizes existing structures at municipality and community level for gaining optimum resource mobilization to implement DP/DRR plan. Furthermore, it focuses on 5 wards (ward no 4, 5, 6, 7 & 8), as core and 7 (ward no 1, 2, 3, 9, 10, 11 & 12) as non-core wards in Panauti Municipality with replication target in other 1 municipality of Kavrepalanchowk District.



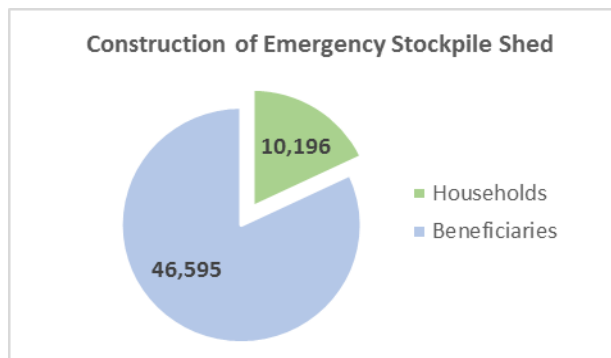
### Project Outputs:

- Strengthened capacity of stakeholders at ward and municipal level committees in developing municipal DRM plan and integrate into annual municipal plan.
- Enhanced capacity of communities in developing and implementing CDBP in DRM along with strengthened WASH focused market system for disaster response.
- Developed a comprehensive emergency WASH plan and demonstrated disaster resilient WASH facilities.
- Developed and disseminated knowledge objects on WASH during emergency and support to replicate good practices for DP, DRR and Resilience.



**Major Achievements:**

- Formed Community Disaster Management committee in 12 wards of Panauti Municipality with 39% female representation.
- Created functional linkage between Community Disaster Management Committee to Local Disaster Management Committee.
- Formed taskforces in 7 core wards to response immediately after emergency.
- Developed comprehensive E-WASH plan of Panauti Municipality.
- Constructed 5 shed to stockpile emergency rescue, first aid kit and WASH material
- Trained community people on CBDRR/WASH, First Aid, Search & Rescue, E-WASH, LDRMP, and 14 step development planning process and Pre-Crisis management Market Analysis (PCMA) with the 61% of female participants.



**Beneficiaries:**

**Total Beneficiaries from the Project**  
**46,595 (24,787 female and 21,808 male)**

**4.6 Post-Earthquake Support Our School**

**Status: Completed**

**Project Partner:** WaterAid Nepal

**Project Area:** 10 schools of Bhaktapur Municipality and 5 schools of Madhyapur Thimi

**Project Duration:** February 2016 to December 2016

**Aim:**

To recover and strengthen the WASH facilities and capacitate school children, school management committee and other line agencies on disaster preparedness.

**Project Description:**

Ensuring access to water, sanitation and hygiene (WASH) in every schools for each child could be a huge challenge, especially during emergencies. As per the survey conducted by the District Education Office Bhaktapur, 137 schools were damaged by earthquake in the district, and so were the water and sanitation facilities.

Disaster preparedness and response is considered as an important factors due to the occurrence of many natural disasters and its subsequent loss. The recent Nepal Earthquake further emphasized the priority for emergency preparedness and responses. In this context, the WASH in school project incorporated the integration of DRR approaches in WASH as a core component along with post-earthquake recovery of WASH in school.



“Post-Earthquake Support Our School” project aimed to serve 15 disasters affected school of Bhaktapur and Madhyapur Thimi with Sustainable and disaster resilient, safe water supply points, hand-washing stands and sanitation facilities. Also, it intends to capacitate school children, school management committee and other line agencies on disaster preparedness.

### **Project Outputs:**

#### **Hardware activities**

- Constructed 13 toilets (4 new toilets, 5 rehabilitated and 1 child friendly toilet) in 13 schools
- Installed 4000 liters polyethene water tank
- Constructed 15 hand washing stations in 15 schools.
- Established 9000 liters underground water tank attached with 750 liter Bio-sand filter for the collection of rainwater harvesting in 2 schools
- Constructed and rehabilitated 4 school tap (2 school tap constructed and 2 rehabilitated)
- Constructed one sanitary pad incinerator
- Installed 1000 liters of 9 water tanks and supplied plumbing fixtures and fitting for water supply in 9 toilet.

#### **Software activities:**

- Oriented child club members, PTA, SMC and teachers on WASH in DRR.
- Conducted first aid training for teachers and students
- Developed and provided WASH Learning materials to 15 schools.
- Identified and printed evacuation route in 15 schools.
- Students were made aware on WASH and DRR through video shows
- Conducted evacuation drill in 15 schools.
- Incorporated DRR information in School Extra-Curricular Activities (ECA)
- 399 students, teachers, SMCs and PTAs, visited the exhibitions primarily focused on WASH and DRR.



- More than 1,000 students enhanced their knowledge on WASH through participation in inter-intra school competitions, day celebrations and WASH campaigns

#### Major achievements:

- Establishment of a WASH stockpile in all schools. Prior to this, a central level WASH stockpile was established in Shree Padma Resource Centre, Bhaktapur.
- Establishment of Operation and Maintenance (O&M) Fund of Rs. 15,000 /- for the continuation and regularity of WASH facilities.
- Ensured regular O&M of WASH facilities and disaster preparedness through distribution of WASH tool box and First Aid box.

#### Beneficiaries:



**1,986** students benefitted from safe drinking water facilities



**3,351** students benefitted from better sanitation facilities



**3,686** students benefitted from better hygiene services



#### Total Beneficiaries from the Project

**3,686** students  
(**1,864** girls and **1,824** boys)

## 4.6 Strengthening the health sector response capacity in the event of mass causality incidents Kathmandu Valley (DIPECHO – VIII)

*Status: Completed*

**Project Partner:** Oxfam

**Project Area:** Bir Hospital and Mahalaxmi Municipality

**Project Duration:** August 2015 to August 2016

#### Aim:

To enhance the response capacity of health authorities, health institutions and community to provide better medical and E-WASH services during and immediately after the disaster.

#### Project Description:

DIPECHO-VIII project is a consortium approach funded by European Commission and led by WHO to enhance the capacity of health authority, health institution and community to provide better medical and E-WASH services during and immediately after the disaster.



ENPHO implemented “DIPECHO-VIII” at Bir hospital and Mahalaxmi municipality with specific objective to strengthen health response system to reduce the preventable mortality, morbidity and disease associated with the mass casualty incidents in Kathmandu Valley. This project focused on preparing functioning health system to provide essential service in the aftermath of emergencies through public and private health institutions and enhanced response capacity of health authorities, health institutions and community in Kathmandu Valley.



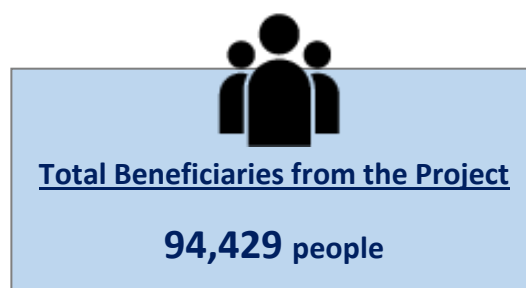
The consortium during DIPECHO-VIII supported Mahalaxmi Municipality to form/reform LDMC, CDMC and to review/ prepare emergency WASH plan incorporating health plans. Baseline and end line survey was carried out to access the increase in knowledge and skills of community people on E-WASH and DRR.

**Project Outputs:**

- Conducted baseline survey and endline survey at Imadol (Ward no. 15,16,17,18 and 19 of Mahalaxmi Municipality)
- Conducted capacity building training to staffs on Strategic Approaches and Government Planning Processes and orientation on annual development planning process conducted at 19 wards
- Formed 19 WDMCs at 19 wards
- Prepared E-WASH plan of 16 communities (Lamatar, Lubhu, Imadol, Siddhipur and Tikathali) has been incorporated on Municipal level LDRMP.
- Conducted refresher training for health facility staffs of Bhaktapur (Bhaktapur Hospital, Duwakot HP, Chnagunarayan PHC, Jhaukhel HP), Kathmandu (Bishnudevi PHC, Syuchatar HP, Ichangunarayan HP) and Lalitpur (Patan Hospital, Imadol HP, Siddhipur HP and Lubhu PHC)
- Conducted Emergency WASH vulnerability and functional capacity assessment at Bir Hospital.
- Conducted ToT on E-WASH for Bir Hospital and its Satellite Hospital and Emergency WASH materials prepositioned at Bir Hospital
- Formed LHDRT (Local Health Disaster Response Team) in Mahalaxmi Municipality.
- Prepared EWASH plan for Bir Hospital and revised EWASH plan of Patan Hospital and Bhaktapur Hospital.
- Conducted Desktop Simulation at Bir Hospital and National Simulation in coordination with consortium partners at Bir Hospital.

**Major Achievements:**

- Enhancement of health sector response capacity through the establishment of well-defined Incident Command System, fully functional Health Emergency Operation Centre and well-coordinated network of health institutions.
- Institutionalization of Health Sector Disaster Management training with a particular focus on strengthening the network of health institutions (hub hospital), including the early deployment mechanism.
- Mainstreaming of community health sector preparedness and response plans into the local level planning process vis-a- vis open spaces planning in the Kathmandu valley.

**Beneficiaries:****4.7 Humanitarian WASH assistance in 7 earthquake affected districts of Nepal***Status: Completed***Project Partner:** UNICEF

**Project Area:** **Dolakha** (Jhyaku, Jugu, Malu, Bhirkot, Jhule), **Nuwakot** (Chaturali, Thanapati), **Ramechhap** (Gothagau, Saghutar, Phulashi, Tokarpur, Tilpung, Nagdaha), **Rasuwa** (Timure, Chilime), **Makwanpur** (Daman, Palung, Bajrabarahi, Gogane and Dandakharka), **Kavre** (Devbhumi Baluwa, Dhulikhel Municipality, Sakhupatichaur, Saradabatase, Panauti Municipality), **Sindhuli** (Tinkanya, Jalkanya, Kholagaun, Pokhari, Khangsang, Kalpabrikshya, Kapilakot, Kamalamai, Dudhauri)

**Project Duration:** 11 May 2015 to 31 July 2016**Aim:**

To promote and provide access to safe water sanitation and hygiene behavior (including menstrual hygiene management for women) in 7 earthquake affected districts.

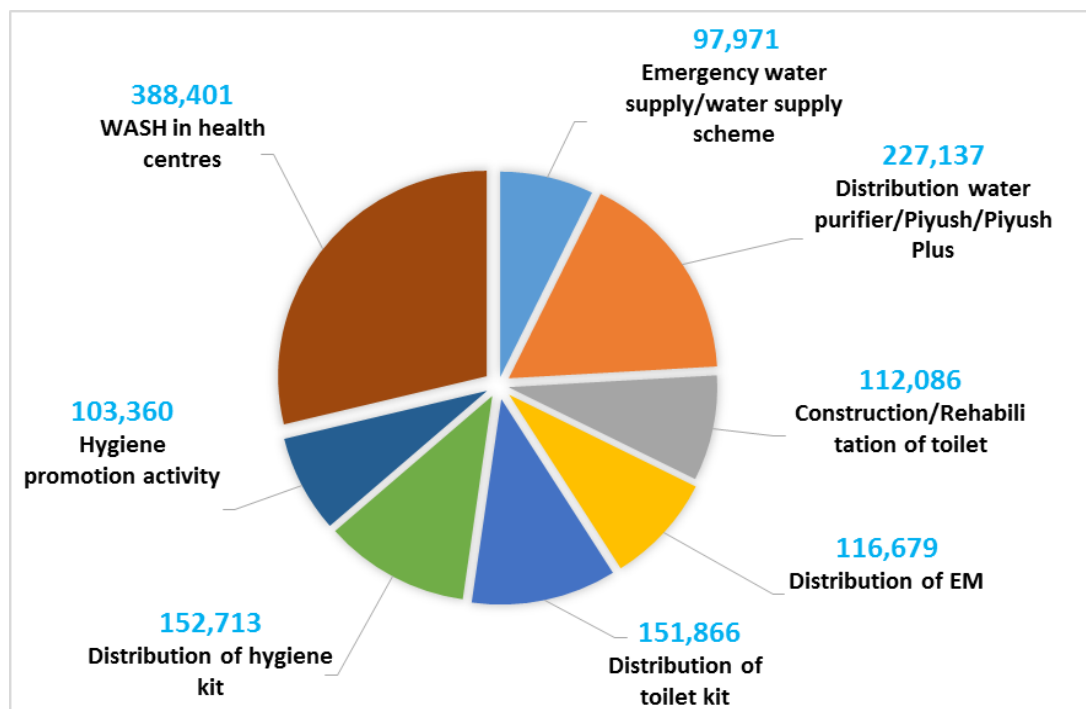
**Project Description:**

ENPHO in collaboration with UNICEF actively moved forward to help earthquake victims of 7 districts by providing WASH related facilities. ENPHO took the initiatives to help the affected people by providing WASH related facilities particularly to prevent possible outbreaks of water borne disease by improving access to life saving WASH services.

WASH activities were carried out in major areas such as camps, community settlements, health centers and schools of 7 earthquake affected districts.

**Project Outputs:**

- Improved access to safe water and sanitation, hygiene practices including menstrual hygiene management.
- Enhanced WASH knowledge among the community people.
- Improved WASH facilities in the health institutions (Health posts, DHO/DPHO, Birthing Centres, Hospitals, Primary Health Centres, schools etc.)
- Minor repair and chlorination of the existing water supply schemes.
- Emergency water distribution
- Water quality testing and monitoring and distribution of Piyush+ (240 mL)/Aqua tab, Piyush.
- Installation of emergency shared toilets in camps, highly affected settlements and clusters
- Hygiene promotion and distribution of hygiene kits and toilet kits



**Total number of people benefitted from Earthquake Responce Activities**

**Beneficiaries:**

Components	Sub-components	No. of construction or distribution	Beneficiaries (population)
<b>Water</b>	Emergency water supply/water supply scheme	451	97,971
	Distribution water purifier/Piyush/Piyush Plus	38,429	227,137
<b>Sanitation</b>	Construction/rehabilitation of toilet	12,097	112,086
	Distribution of EM	22,495	116,679
	Distribution of toilet kit	26,250	151,866
<b>Hygiene</b>	Hygiene kit distribution	31,622	152,713
	Hygiene promotion activity	1,001	1,03,360
<b>Institutional WASH</b>	WASH in health centers	88	3,88,401
	WASH orientation in health centers	64	1,166



**Total Beneficiaries from the Project**

**13, 50,213 people**

## 4.8 Emergency Response to Nepal Earthquake

**Status: Completed**

**Project Partner:** Oxfam

**Project Area:** Mahalaxmi Municipality; ward no- 1 to 19 (Lamatar, Lubhu, Tikathali, Siddhipur, Imadol)  
Chauthare VDC ward no – 1 to 9)  
Nagarkot Municipality ward no – 1 to 13 (Nagarkot, Bageshwori, Tikathali, Sudal)

**Project Duration:** April 2015 to March 2017

**Aim:**

To contribute to the sustainable recovery and reducing risk among vulnerable earthquake affected households of two districts of Kathmandu Valley

**Project Description:**

After the massive earthquake of 25 April 2015, ENPHO with support of OXFAM implemented “Nepal Earthquake Response” project in order to increase access, and make optimal use of, improved water and sanitation facilities, and to take action for the protection from public health disasters.



The project aimed to ensure the sustainability of gender sensitive WASH facilities and services within 3 years. This project further focused on disseminating the knowledge to reconstruct earthquake resilient structures and enhancing emergency preparedness and response capacity to the earthquake victims in two earthquake affected municipalities and 32 wards in Lalitpur and Bhaktapur Districts.



### Project Outputs:

- Constructed 270 household latrines, EcoSan toilets, 5 girl friendly toilet attached with pad incinerator in school, ward and health post
- Repaired 7 WASH facilities in schools.
- Installed Rain Water Harvesting in 41 households.
- Constructed and installed soak pit in 126 households.
- Rehabilitated and repaired 7 community based water supply scheme.3
- Distributed 58 Biosand filter and 55 units of Improved Cooking Stoves (ICS).
- Conducted 91 hygiene prevention events with the major focus on ODF, community triggering and MHM.
- Provided support to 2 municipalities with monsoon preparedness.
- Conducted 10 major orientation program on importance and proper use of WASH facilities, MHM and preparation.
- Constructed 20 compost chamber at Chaugare.
- Mobilization of child club for WASH awareness.
- Promotion of kitchen gardening concept for nutritious food and waste water management to 150 households.
- Conducted 45 DRR awareness events at schools and 27 events at community.
- Established 2 information centre at municipality
- Developed 20 school safety plan
- Constructed 20 livestock shed.
- Conducted vocational training for helter construction
- Provided orientation and training to task force volunteers.
- Supported in implementing 19 DRM plan.
- Provided mason training for toilet construction.
- Provided O&M training for smooth management and maintenance of the constructed and rehabilitated water supply schemes.

**Major Achievements:**

- Established 2 villages (*Lamatar-3* and *Gairigaun-2*) of Mahalaxmi Municipality as a model village which includes WASH facilities such as; rainwater harvesting, soak pit, compost chamber and ICS.
- Rehabilitation of open space and provided support for emergency gathering

**Beneficiaries:**

Nagarkot Municipality:	11,5600 population
Mahalaxmi Municipality:	38,5561 population
Chauthare VDC:	533 population



**Total Beneficiaries from  
the Project**

**5,01,754 people**



## 5. WASH and Nutrition

### SUAAHARA – II

**Status: Ongoing**

**Project Partner:** USAID/HKI

**Project Area:** **Eastern Development Region (5 districts-** Sankhuwasabha, Bhojpur, Solukhumbu, Taplejung, Panchthar)

**Central Development Region (5 districts-** Dhading, Rasuwa, Nuwakot, Sindhupalchowk, Dolakha)

**Western Development Region (11 districts-** Gorkha, Palpa, Myagdi, Kapilvastu, Rupandehi, Gulmi, Argakhachi, Baglung, Nawalparasi, Lamjung, Syangja)

**Mid-western Development Region ( 10 districts-** Rukum, Dang, Jajarkot, Rolpa, Salyan, Dailekh, Pyuthan, Bardiya, Banke, Surkhet)

**Far-Western Development Region (9 districts-** Bajura, Darchula, Baitadi, Achham, Kanchanpur, Kailali, Dadeldhura, Bajhang, Doti)

**Project Duration:** May 2016 to April 2021

**Aim:**

To improve nutritional status of women and children in Nepal

**Project description:**

Suaahara is a five-year, comprehensive, community-focused project dedicated to improving the health and nutritional status of pregnant and lactating women and children under the age of two. The project focuses on improving nutrition and health standards of women and children by focusing on better maternal, newborn, and child health services. The SUAAHARA project has been started in 40 districts in all the development regions of



Nepal. The project has been implemented under consortium approach in which ENPHO has contributed to achieve outcome on WASH “i.e., Household Adopts Essential WASH Actions”. The project has mainly support to attain ODF in the remaining district and promote total sanitation. The project envisioned to improve nutrition status of the people particularly women and children through improving WASH status.

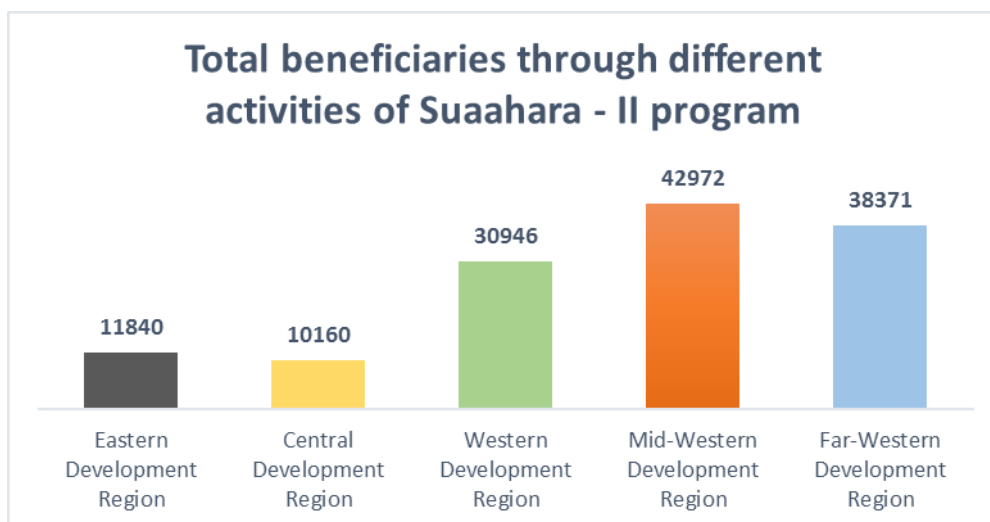
**Project Outputs:**

- Improved capacity of 127,555 stakeholders and frontline workers on WASH promotion.
- Households have improved knowledge and practice on water treatment and safe storage
- Households have improved knowledge and practice on hygiene behavior
- Increased girls friendly and child friendly facilities at schools
- Increased investment among private sector to provide biogas, bio-sand filters, rainwater harvesting and other WASH services
- Promoted total sanitation to attain healthy home and healthy community status.

**Major Achievements**

- Altogether, 4 VDCs (Chilime, Ramche, Holiya and Palchowk) have been declared as ODF zone.
- One community, *Gilung of Lamjung* declared as total sanitized community.
- Frontline workers and PNGO staff oriented on WASH/Post ODF.
- FCHVs and youth volunteers oriented on WASH/Total Sanitation.
- HM, FT, SMC and PTA members of School in programme VDCs oriented on WASH.

**Beneficiaries:**



**Total Beneficiaries from the Project**  
**134,289 people**

S.N.	District	Beneficiaries	S.N.	District	Beneficiaries
1.	Taplejung	1,273	21.	Kanchanpur	4,119
2.	Banke	1,530	22.	Gorkha	3,200
3.	Dolakha	4,037	23.	Argakhachi	5,208
4.	Sindhupalchowk	1,757	24.	Rupandehi	5,328
5.	Rasuwa	1,600	25.	Baglung	962
6.	Nuwakot	607	26.	Kapilvastu	6,061
7.	Surkhet	2,112	27.	Nawalparasi	3,805
8.	Dhading	2,159	28.	Lamjung	1,215
9.	Sankhuwasabha	2,449	29.	Myagdi	2,114
10.	Solukhumbu	3,046	30.	Gulmi	1,669
11.	Bhojpur	1,212	31.	Palpa	1,384
12.	Panchthar	3,860	32.	Salyan	4,562
13.	Dadeldhura	3,800	33.	Dang	7,251
14.	Darchula	3,275	34.	Dailekh	3,169
15.	Baitadi	4,534	35.	Rolpa	11,427
16.	Doti	5,753	36.	Rukum	3,645
17.	Bajura	4,449	37.	Bardiya	2,380
18.	Bajhang	4,810	38.	Jajarkot	4,771
19.	Achham	3,746	39.	Pyuthan	2,125
20.	Kailali	3,885	40.	Syangja	0

## 6. Research and Development

### 6.1 Study on Wastewater in Kathmandu Valley

**Status: Ongoing**

**Project Partner:** Japan International Cooperation Agency (JICA)

**Project Area:** Kathmandu, Bhaktapur and Lalitpur Districts

**Project Duration:** 1 March 2017 to 30 July 2017

**Aim:**

To clarify and summarize existing situation and future plan of wastewater management in Kathmandu Valley

**Project Description:**

The objectives of this project were to identify the water quality of the main stream and study the capacity of existing septic tank in Kathmandu Valley. Furthermore, this project predicts the contamination of wastewater and recommends for the future activity to be conducted for wastewater management.

For this, intensive desk study on relevant data and information of wastewater and review of documents of ongoing project by PID of KUKL and HPCIDBC were carried out.

Also, institutional system and laws and regulations of wastewater treatment enforced by the Nepal Government and municipalities was reviewed. Additionally, interview with related personnel from PID/KUKL and HPCIDBC was done in order to understand status and progress.



**Project Outputs:**

- Collection and analysis of water samples from 10 points of Bagmati river
- Altogether, 20 samples were collected from households and institutions in order to analyze the influent, faecal sludge and effluent.
- Completed survey on wastewater use practices

**Major Achievements:**

- Prepared a report on water quality of Bagmati River
- Prepared a report on capacity of existing septic tanks
- A comprehensive report on status of wastewater management in Kathmandu Valley

## 6.2 Development of costing tools for Sanitation Systems

**Status: Completed**

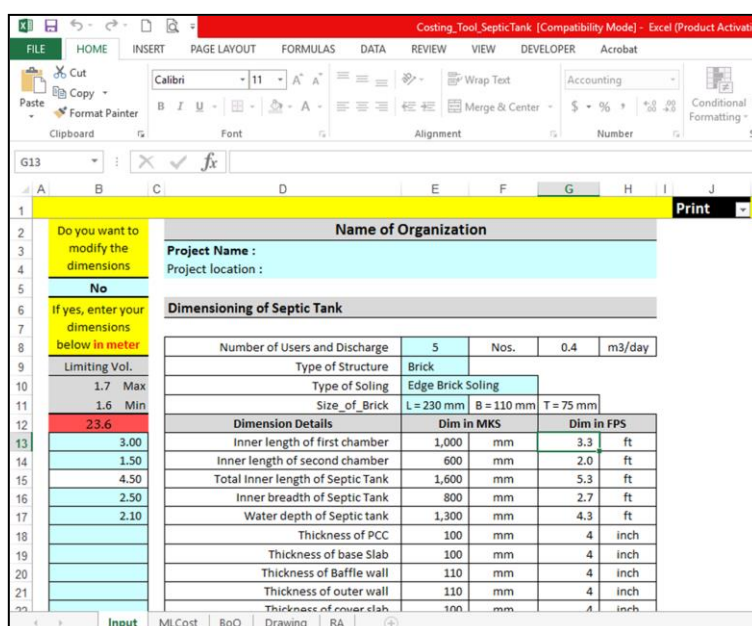
**Project Partner:** Environmental Sanitation Section, DWSS, Kathmandu Nepal

### Aim:

To develop comprehensive, users-friendly costing tools for various types of household toilets including sanitation systems such as Septic tanks, Anaerobic Baffled Reactor (ABR), Anaerobic Filter, and Constructed Wetlands.

### Project Description:

ENPHO in collaboration with Env. Sanitation Section, DWSS has developed the simple, users-friendly costing tools for sanitation systems. This excel-based costing tools has been developed to enable cost estimation of various sanitation systems targeting to both technical and non-technical sanitation professionals. This costing tool has features to estimate quantity and cost of sanitary structures based on dimension of structure and rate of required materials. More than 50 sanitation professionals have been oriented on the use of costing tools.



Name of Organization			
Project Name :			
Project location :			
Dimensioning of Septic Tank			
Number of Users and Discharge	5	Nos.	0.4 m3/day
Type of Structure	Brick		
Type of Soling	Edge Brick Soling		
Size of Brick	L = 230 mm	B = 110 mm	T = 75 mm
Dimension Details		Dim in MKS	Dim in FPS
Inner length of first chamber	1,000	mm	3.3 ft
Inner length of second chamber	600	mm	2.0 ft
Total Inner length of Septic Tank	1,600	mm	5.3 ft
Inner breadth of Septic Tank	800	mm	2.7 ft
Water depth of Septic tank	1,300	mm	4.3 ft
Thickness of PCC	100	mm	4 inch
Thickness of base Slab	100	mm	4 inch
Thickness of Baffle wall	110	mm	4 inch
Thickness of outer wall	110	mm	4 inch
Thickness of cover slab	100	mm	4 inch

DWSS plans to orient more WASH professionals on the use of this costing tools in the coming days. ENPHO further plans to include more sanitation systems in this costing tools and disseminate it to the larger audience.

### Project Outputs:

- Developed excel based Costing Tools for estimate of various types and sizes of HH toilet, Septic tanks, Anaerobic Baffled Reactor (ABR), Anaerobic Filter, Constructed Wetlands etc.

### Major Achievements:

- The sanitation costing tool has contributed in estimating and dimensioning the sanitation systems for the sanitation professionals.



### 6.3 “Evaluation of decentralized small scale sanitation systems (4S)”: Research and collaboration for the BMGF funded project

**Status: Completed**

**Project Partner:** EAWAG

**Project Area:** 30 various waste water treatment plants located in 10 districts (Bhaktapur, Chitwan, Kathmandu, Kaski, Kavre, Lalitpur, Makwanpur, Morang, Palpa, Rupandehi) of Nepal; and 10 various wastewater treatment plant located in 8 location (Karachi; Majeed Keerio, Nawabshah; Mulla Sand, Khadhar; Sanghar; Sand Keeiro; Sakarand; Sukkur; Thatta)

**Project Duration:** 27 September 2016 to 30 June 2017

#### **Aim:**

Comprehensive evaluation of existing small-scale sanitation systems to provide evidence-based policy recommendations for improved system design and operations and maintenance; and to inform strategic financial decision making, thus, accelerating access to treatment of used water and sludge.

#### **Project Description:**

This project aimed to evaluate the existing small-scale sanitation systems to provide evidence-based policy recommendations for improved system design and operations and maintenance. For this, detail socio-economic evaluation, cost benefit and life cycle analysis of 30 and 10 selected systems was conducted from Nepal and Pakistan respectively. This project also focuses on in-depth 24 hour composite sampling and analysis of 5 selected small scale sanitation systems for pre-monsoon, monsoon and post-monsoon in Nepal.



Furthermore, this 4S project supports EAWAG in analysis and validation of data (baseline landscaping data, clarification of survey results, interview notes and lab results, feedback on preliminary data interpretation)

#### **Project Outputs:**

- Prepared a report of detail analysis of results from the sampling campaign.
- Prepared a report on institutional and stakeholder analysis, and landscaping of small scale sanitation systems



**Major Achievements:**

- Completed in-depth 24 hour composite sampling and analysis of 5 selected small scale sanitation systems for pre-monsoon, monsoon and post-monsoon
- Completed and submitted Basic Assessment survey forms from 30 and 10 selected small scale sanitation systems in Nepal and Pakistan.

## 7. Capacity Building on WASH

### 7.1 Reconstruction and Resilience of WASH Services through Capacity Building in Nepal

**Project Partner:** Centre for Affordable Water and Sanitation Technology (CAWST)

**Project Area:** Earthquake affected districts: Dolakha, Kavrepalanchwok, Sindhupalchwok and Nuwakot

**Project Duration:** January 2017 to March 2020

**Aim:**

- To equip the local governments and other community organizations with new knowledge, skills and innovations to better respond to the water and sanitation needs of earthquake affected populations, especially women, men, girls, boys and people of lower castes.
- To increase consumption of potable water by earthquake affected populations, especially women, men, girls, boys and people of lower castes;
- To increase use of gender appropriate, environmentally sustainable, improved sanitation services by earthquake affected populations, especially women, men, girls, boys and people of lower castes.

**Project Description:**

ENPHO is implementing this project in partnership with CAWST, funded by Global Affairs Canada (Department of Trade and Foreign Affairs). This project specifically designed to enhance the capacity of local organizations on technical aspect of WASH and building up the capacity in delivering the message and ultimately influencing improve the WASH behavior of the community people. This project will contribute further in giving precise message in effective way that will improve the WASH behaviors.



This project aims to serve the severely earthquake affected district; Dolakha, Kavrepalanchwok, Sindhupalchwok and Nuwakot. With this project, CAWST and ENPHO is providing an opportunity to build on this capacity to further impact vulnerable communities in earthquake-prone regions in Nepal. The project activities will lead to greater resiliency of

communities to manage their WASH needs in the event of a similar natural disaster in the future.

#### Project Outputs:

- Developed trainer manual on gravity fed Water Supply Scheme Operation and Maintenance;
- Translated Biosand Filter Project Implementation (BSF PI) training manual in Nepali language ;
- Organized coordination meeting in each district for local WASH implementing organization in the district;
- Conducted Delivering Effective WASH Training (DEWT) training in all four districts;
- Conducted Community Health Promotion (CHP) training in Dolakha, Kavre and Nuwakot.

#### Major Achievements:

- Built up good relationship with 50 local WASH implementing organizations in the district to move on further project activities ahead;
- Influenced to local organization by well managed training package and skillful capable trainers.

#### Beneficiaries:

Name of trainings	District	No. of WASH implementing Organization				No. of participant	
		Local NGO	INGO	Govt.	Total Org.	Male	Female
DEWT training	Dolakha	11	0	1	12	13	7
DEWT training	Sindhupalchwok	9	2	1	12	12	6
DEWT training	Nuwakot	8	0	0	8	15	9
DEWT training	Kavre	19	0	0	19	8	13
CHP training	Dolakha	11	2	0	13	9	14
CHP training	Nuwakot	9	1	0	10	7	16
CHP training	Kavre	19	0	0	19	10	9
<b>Total</b>		<b>86</b>	<b>5</b>	<b>2</b>	<b>93</b>	<b>74</b>	<b>74</b>

#### Total Beneficiaries

**148 people (74 female and 74 male) benefitted from this project**

## 7.2 Poverty reduction and sustainable protection of natural resources in South Asia

**Status: Ongoing**

**Project Partner:** Bremen Overseas Research and Development Association (BORDA)

**Project Area:** Various locations in Nepal.

**Project Duration:** January 2016 to December 2017

### **Aim:**

To provide services and capacity building for wastewater and faecal sludge treatment and to improve access to sustainable sanitation infrastructure in urban and peri-urban areas.

### **Project Description:**

The main objective of this project is to increase the knowledge and disseminate the information on wastewater and faecal sludge treatment using Decentralized Wastewater Treatment System (DEWATS) and Faecal Sludge Treatment Plant (FSTP). This includes technical support to various organization on design, implementation, operation and monitoring of DEWATS and FSTP along with feasibility study on faecal sludge management in emerging cities.



### **Project Outputs:**

- Built capacity of national/international governmental officials and engineers on DEWATS and FSM.
- Performance monitoring and maintenance of Faecal Sludge Treatment System in Lubhu, Mahalaxmi Municipality.
- Performed feasibility study and identified faecal sludge management status in 8 emerging cities (Banepa, Dhulikhel, Nijgadh, Itahari, Shuklagandaki, Gorkha, Dudhkunda, Dakshinkali)

### **Major Achievements:**

- Strengthened capacity of national/ international engineers on technical design, O&M of DEWATS and FSM;
- A year and half completion in successful operation of Faecal Sludge Treatment Plant, Lubhu.
- Participated and presented paper (Case study of FSTP Lubhu) in 4<sup>th</sup> Faecal Sludge Management International Conference.

## 8. Knowledge Management

Knowledge based education, trainings and advocacy campaigns are one of the core activities of ENPHO which is handled by the Knowledge Management division of ENPHO. The division includes two units for this specific purposes- the Training Centre and the Resource Centre.

### 8.1 Training Centre

Since 1990, ENPHO has been continuously involved in building capacity of community, groups and organizations through various capacity building trainings. ENPHO started organizing systematic training events by establishing Water Expertise and Training Centre (WET-C) in 2008 with technical support of Centre for Affordable Water and Sanitation Technology (CAWST). Now, a separate unit named **Training Centre**, with wide scope of work on Water, Sanitation and Hygiene (WASH), has been established under the



Knowledge Management division of ENPHO. The unit strongly believes on the fact that the capacity building of community people and organizations is very crucial for carrying out the development activities effectively and create sustainability. The Training Centre intends to develop the WASH training professionals to deliver the WASH trainings effectively and influence community people to enhance existing and adapt improved WASH behaviors.

#### Major Activities conducted by ENPHO Training Centre

- **Development of Training Packages/Modules**

A complete training package/modules consists of systematic arrangement of messages delivery methods and activities to maintain flow and consistency based on target audience. Trainer manual, participant manual and required training material are the three major part of training package/modules. Various training packages/modules on WASH and WASH Plus are developed based on the need and demand from WASH implementing organizations.



The development of training packages guides the trainer on conducting training sessions with the support of training materials. As of mid of July 2017, 17 training packages have



been developed by the unit targeting to field level staff of WASH implementing organization. Out of them, 4 training packages were developed in FY 2016/17.

1. Biosand Filter Project Implementation (BSF PI) - 5 days
2. Biosand Filter Construction for Technician (BSF TECH) - 3 days
3. Community Health Promotion (CHP) - 3 days
4. Delivering Effective WASH Training (DEWT) - 5 days
5. Emergency WASH for Volunteers (E-WASH) - 2 days
6. Household Water Treatment and Safe Storage (HWTSS) - 2.5 days
7. One day package on WASH for community people - 1 day
8. Operation and Management of Water Supply Scheme (OMWSS) - 3 days
9. Roof Top Farming (RTF) - 4 days
10. Sensitization Tools for Total Sanitation (STTS) - 4 days
11. WASH for Recovery (WASH-R) - 3 days
12. Water Quality Testing (WQT) - 2 to 5 days
13. Menstrual Hygiene Management (MHM) - 1 day
14. Total Sanitation (SWASTHA Approach- Basic) - 2 days
15. WASH and Nutrition - 1 day
16. Operation and Maintenance of water supply scheme -3 days
17. Cholera Response Package – 4 days

• **Delivery of Trainings**

The Training Center unit delivers trainings in participatory way by creating safe learning environment which enables the participants to explore their skills and enhance the knowledge.

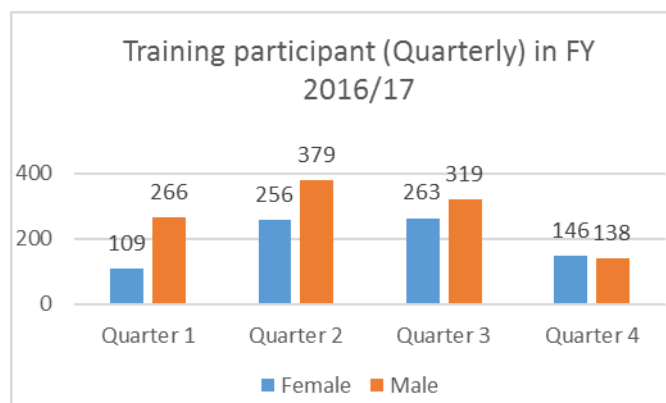
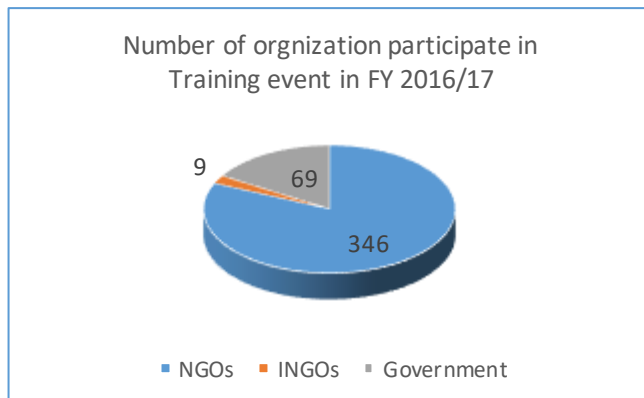
**Type and number of trainings/workshops conducted during FY 2016/17**

<b>SN</b>	<b>Type of trainings/ workshops</b>	<b>Nos.</b>
1	Biosand Filter Project Implementation (BSF PI)	4
2	Biosand Filter construction for Technicians (BSF Tech)	5
3	Delivering Effective WASH Training (DEWT)	7
4	Household Water Treatment & Safe Storage (HWTS)	1
5	Sensitization Tools for Total Sanitation (STTS)	8
6	Roof Top Farming (RTF)	1
7	Drinking Water Quality Testing	2
8	Total Sanitation (SWASTHA Approach)	41
9	Creating Effective WASH Training (CEWT)	1
10	EWASH for Volunteers	4
11	Community Health Promotion (CHP)	3
12	Operation and Maintenance of Water Supply Scheme	6
13	Customized Training packages such as Cholera, MHM, etc.	10
	<b>Total</b>	<b>93</b>



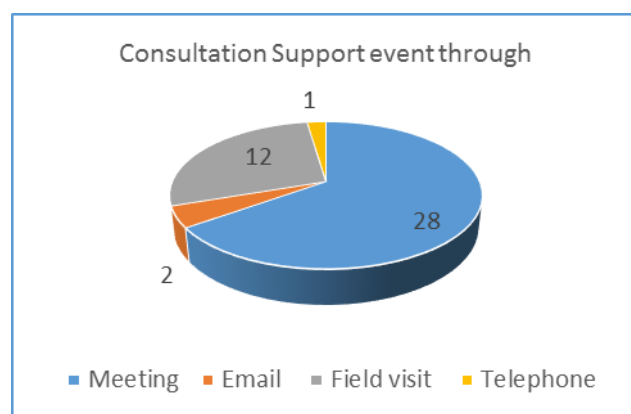
Training Centre Unit also provides the on-demand trainings to the WASH implementing organizations. After Nepal hit by the mega earthquake 2015, the demand for WASH training has been gradually increased.

During FY 2016/17, ENPHO Training Centre has successfully delivered 93 events of trainings for altogether 1,876 (774 female and 1102 male) WASH professional from 346 NGOs, 9 INGOs and 69 government local authorities. Out of 93 training events, 50% percent of training event were on-demand from WASH implementing organization.



**Consultation Support**

ENPHO Training Centre has been continuously providing technical, and consultation support to Biosand filter (BSF) entrepreneurs and its umbrella union 'Biosand Filter Association Nepal (BiFEAN)'. Moreover, the unit provided consultation support to other WASH implementing organization through consultation meetings, and through different media such as email, field visit and telephone conversation. Altogether, 43 consultation support have been provided to different organization including BiFEAN.



During the FY 2016/17, altogether 10,237 Biosand filters were distributed to households through 32 Biosand filter entrepreneurs in Terai region of Nepal. The filters provided safe drinking water services to more than 51,000 community people.

**Major Achievements:**

- Established new relationship with WASH implementing organization as professional training provider in the sector.
- The capability of unit to design, develop, modify and deliver training packages or modules as per need of client organization.
- Developed wide range of training package (13 different well developed training packages) to meet the need of client organization in the sector.
- Launched separate webpage of ENPHO Training Centre and its services.

## 8.2 Resource Centre

The Resource Centre collects, stores and disseminates information and uses them to conduct education and advocacy campaigns on environment and public health.

### ENPHO Website

Information regarding WASH technologies, our work and projects, awareness campaigns, IEC materials on WASH with other updates on WASH activities are easily available at ENPHO website [www.enpho.org](http://www.enpho.org).

### Publications and IEC Materials

Resource Centre collected, produced and disseminated various publications and IEC materials on WASH and its technologies with an objective of imparting information on WASH to various target audiences. This year, ENPHO published a first edition of “Journal of Environment and Public Health”. The first edition journal resonates with the theme of World Water Day 2017 - ‘Wastewater’ and highlights the research papers on Wastewater Management, Faecal Sludge Management, City Sanitation Planning, Productive Reuse and Bagamati River Quality. Similarly, on the occasion of World Toilet Day 2016, Special Bulletin was published, which provides a key highlights about ENPHO contribution in toilet construction and excreta management. Anjuli, was also published which highlighted ENPHO’s steps in 25 glorious year and different success stories from the field.

Likewise, ENPHO E-Bulletin is published every month which provides the key highlights of various activities conducted by ENPHO including information on our latest research and studies conducted on WASH and environment. *Refer Annex VI for the list of IEC materials produced during the FY 2016/17.*

### Library

The Resource Centre also manages library where books, reports, journals, research documents related to environment and WASH are catalogued systematically. It also facilitates staffs, scholars, students, and general public to receive required information available in the library. The resource centre has also initiated to develop a library management system.

### ENPHO Hall

ENPHO has a bright and airy hall with capacity seating for 50 which can be used for conducting trainings, meetings, workshops etc. The hall is well equipped with projector and sound system. This ENPHO hall is also provided to various organization, network group to conduct programs.

**Networking**

ENPHO has been closely working with relevant stakeholders and individuals to share information coordinate and implement joint activities, research and academic studies related to safe water, sustainable sanitation, health and hygiene promotion and other environmental concerns. ENPHO is the member organization in following different civil societies and technical forums:

- Member of consortium for DEWATS dissemination (CDD) network (informal network to promote and disseminate Decentralized Basic Needs Services (DBNS) at South Asia
- Coordinating organizations of NGO Forum for Kathmandu Valley Water Supply and Sanitation
- Core member in Coalition for Clean Environment (CCE)
- Technical committee member on Drinking Water Quality and lab issues for NBSM
- Member for development of National Drinking water Quality Standard
- Member on Coordination committee Small Town Water Supply and Sanitation Project, DWSS
- Technical member District WASH Coordination Committee – Bhaktapur
- Network member in Resource Center Network Nepal(RCNN)
- Member of WASH cluster
- Member of Nepal Water Alliance
- Member Sustainable Sanitation Alliance(SuSanA)
- Advisory Board Member, Accelerating City to City Exchange on Sustainable Sanitation (ACCESSanitation)

**Advocacy Campaigns**

The Resource Centre is involved in various advocacy efforts on pertinent WASH issues via dynamic campaigns, dramas, wall paintings, mass orientations, WASH Forums, research and exhibitions. ENPHO celebrated internationally and nationally recognized days of environmental significance (Global Hand Washing Day, World Toilet Day, World Water Day, Menstrual Hygiene Day, and World Environment Day and National Sanitation Action Week) and organized various exhibitions to raise awareness on WASH.

**ENPHO Paschim Paaila**

ENPHO Paschim Paaila, an informal youth network is striving towards creating epidemic free Nepal since 2009. The youths are actively engaged and dedicated to prepare, respond and mitigate disasters and epidemic through WASH education, awareness, research and advocacy. ENPHO is providing secretariat for Paschim Paaila. In continuation of these efforts, this year too, ENPHO Paschim Paaila organized various campaigns, WASH Forums including a Youth WASH Concern Workshop.

Paschim Paaila's involvement is significant in ENPHO's advocacy work and is highlighted below.

- **Campaigns/Events** (Deusi-Vailo program, WASH Leadership Hiking, WASH Campaign, Inter-school Drawing competition, Piyush Distribution, Water Quality testing, Anniversary Celebration and Street Drama)

The campaigns and events involved over 500 volunteers and benefitted over 10,000 individuals.

- **Day Celebration (World Toilet Day, World Water Day and Menstrual Hygiene Day)** was celebrated conducting Toilet Expo, WASH Mela and Menstrual awareness campaign respectively mobilizing 50 volunteers. The events were organized in busy public places – Mangal bazar and Lagankhel Bus Park, and ENPHO office.

- **WASH Forum:** Altogether, 11 WASH Forum was conducted this year with the participation of a total of 288 youths in the forums. This year, Emergency and Disaster, Climate Impact, Air Pollution, Urban WASH, Rainwater Harvesting, Wastewater and Menstrual Hygiene, topics were covered in the forums.

- **WASH Concern Workshop**  
WASH Concern Workshop is organized in order to enhance the knowledge and capacity of youths on water, sanitation, hygiene (WASH). This year, Paschim Paaila organized 2 workshops motivating 48 youths to be the WASH ambassadors of the community.



- **Cholera Outbreak Prevention**  
“ENPHO mobilized 40 Paschim Paaila volunteers in booth campaign to cholera outbreak prevention preparedness under the “Cholera/ AWD preparedness in DRR approach for urban WASH” project at Mangal Bazaar, Thaiba and Satdobato of Lalitpur. Volunteers performed street drama, flash mob and water quality testing. Booth campaign reached more than 7000 vulnerable people to cholera during monsoon.

- **Survey**  
Paschim Paaila volunteers were mobilized in surveys of water security and menstrual hygiene management from ENPHO. Altogether 16 volunteers were mobilized in this fiscal year for survey.

List of WASH Forums organized by ENPHO Paschim Paaila for the FY 2016/17:

SN	WASH Forum Topic	Resource Person	Date	No. of Participants
1	“WASH Response on Earthquake: Present Approach and a Way Forward”	Mr. Sanjay Chalise - Public Health Engineer of Oxfam	29 July, 2016	30
2	“Impact of Emerging Climate Threat on Water Issues In Nepal”	Mr. Madhukar Upadhya - Watershed Practitioner	26 Aug., 2016	35
3	“Current Issues of Waterborne Diseases And Threat of Epidemic In Kathmandu Valley”	Ms. Luna K. Kansakar -WASH Officer of UNICEF	30 Sept., 2016	27
4	“Air pollution in Kathmandu and its negative health impact”	Mr. Rajan Thapa - Program Manager of Clean Energy Nepal (CEN)	28 Oct., 2016	28
5	“Equity in School WASH: Overcoming Exclusion & Discrimination in Nepal/South Asia”	Mr. Siddhi Shrestha - WASH Specialist of UNICEF	25 Nov., 2016	30
6	“Rain Water Harvesting - A Solution Towards Water Crisis”	Mr.Suman Shakya - Managing Director of Smart Paani Pvt. Ltd.	30 Dec., 2016	24
7	“Urbanization and WASH issues”	Ms. Sushrina Manandhar and Mr. Dharma Ratna Chitrakar - Urban Programme Officers of WaterAid Nepal	27 Jan., 2017	25
8	“Potential of wastewater use for water security in irrigated agriculture: Case of Harisiddhi wastewater treatment plant, Nepal	Mr. Bipin Dangol - Executive Director of ENPHO Mr. Robert Dangol - Associate Professor and Program Coordinator of iWRM of Nepal Engineering College Ms. Isha Dhakal - Project Officer of ENPHO	31 March, 2017	30
9	“Menstruation, Education and Change”	Ms. Pema Lhaki - Executive Director of Nepal Fertility Council Center (NFCC)	26 May, 2017	15
10	“Trend of Urbanization and Its Impact on Environment in Valley”	Mr. Ramji Bogati - Program Director of Community Support Association of Nepal (COSAN)	30th June, 2017	26
11	Youth as Change Agents	Ms. Rosy Singh - Resource Center Manager of ENPHO	4 Aug., 2017	32

## 9. Laboratory and Production

Laboratory and Production division of ENPHO has been providing its analytical services on water, air, soil and food quality since its inception in 1990. ENPHO Laboratory has been accredited under the NEPLAS criteria (based on ISO 17025) by Nepal Bureau of Standards and Metrology, Government of Nepal. The main objective of this Laboratory is to contribute to ENPHO's overall mission of transforming Nepalese society into a healthy and eco-friendly society through its services.

ENPHO Laboratory has also established itself as an important platform for research and development activities in water, sanitation and environment sectors. It is well equipped with sophisticated instruments like atomic absorption spectrophotometer (AAS), ultra violet (UV) spectrophotometer, double distillation unit, four-digit electronic balance, pH meter, electrical conductivity meters, automatic digestion and distillation units, and various types of oven, incubator, and furnace for physical and chemical parameter analysis. Furthermore, it is equipped with several filtration units (Millipore and Del Agua units), different range of incubators, autoclave and refrigerator for microbiological analysis. Besides analysis, this unit of ENPHO has developed various types of water testing kits like water quality field test kit, arsenic test kit, free residual chlorine (FRC kit), Coliform Presence/Absence (P/A) vial, and water disinfecting chlorine solutions like Piyush, Piyush Plus, 1% Chlorine and ENPHO body belt incubator.

This year ENPHO has made cooperation agreement with EcoConcern Pvt. Ltd. to run the laboratory and production division. The main aim of this partnership is to scale-up laboratory services and marketing of ENPHO products to provide quality services to the general public. ENPHO together with EcoConcern conducted the projects "Water quality testing and analysis of batch X schemes development phase- package 1" funded by Rural Water Supply and Sanitation Fund Development Board (RWSSFDB) and "Evaluation of Small-Scale Decentralized Sanitation Systems" in support of EAWAG/BMGF.

The following section lists the details of the number of samples analyzed, kits and reagents sales in the FY 2016/2017.

### Type and number of samples analyzed at ENPHO Laboratory during FY 2016/2017.

Type of sample	Number of Samples analyzed
<b>Total Drinking Water Samples</b>	<b>4432</b>
<i>Samples from ENPHO project</i>	3037
<i>Samples from other clients</i>	1395
<b>Total Wastewater Samples</b>	<b>478</b>
<i>Samples from ENPHO project</i>	380
<i>Samples from other clients</i>	98



<b>Total Soil Samples</b>	<b>65</b>
<i>Samples from other clients</i>	65
<b>Total Urine, Food, Feed and Other Samples</b>	<b>126</b>
<i>Samples from other clients</i>	126
<b>Sludge sample</b>	<b>26</b>
<i>Samples from ENPHO project</i>	26
<b>Grand Total</b>	<b>5127</b>

### Type and number of products sold during the FY 2016/2017

S.N.	Name of products	Unit	Number of units sold
1	Coliform P/A Vial	pcs	31136
2	Piyush	pcs	117946
3	Piyush Plus	pcs	31359
4	ENPHO Water Test Kit	set	533
5	Arsenic Test Kit	set	9
6	ENPHO Body Belt Incubator	pcs	315
7	FRC Kit	set	590
8	1% Chlorine	Litre	778
9	Ammonia Test Kit	set	4
10	Iron Test Kit	set	10
11	Phosphate Test Kit	set	1
12	Hardness Test Kit	set	2
13	Calcium Hardness Test Kit	set	3
14	Alkalinity Test Kit	set	1
15	Nitrate Test Kit	set	1

### Individual reagents sold during FY 2016/2017

S.N.	Reagents	Unit	Number of units sold
1	Ammonia reagent 1	pcs	118
2	Ammonia reagent 2	pcs	125
3	Chloride Reagent - 1	pcs	61
4	Chloride Reagent - 2	pcs	67
5	Hardness Reagent - 1	pcs	104
6	Hardness Reagent - 2	pcs	115
7	Hardness Reagent - 3	pcs	95
8	Iron Reagent - 1	pcs	87
9	Iron Reagent - 2	pcs	84
10	Iron Reagent - 3	pcs	80
11	Nitrate Reagent - 1	pcs	85
12	Nitrate Reagent - 2	pcs	83
13	pH Reagent	pcs	108
14	Phosphate Reagent - 1	pcs	65

15	Phosphate Reagent - 2	pcs	61
16	ENPHO WTK Reagent Set	set	34
17	Arsenic Reagent 1	pcs	5
18	Arsenic Tablet - 1	pcs	23
19	Arsenic Tablet - 2	pcs	25

## 10. Planning, Monitoring and Evaluation

ENPHO is developing the viable, user’s friendly PME software which includes database and information management of the projects implemented by ENPHO. In addition, ENPHO has conducted strategic planning session to strengthen PME system within the organization. A new senior PME officer is being hired to oversee PME unit. Several monitoring visits were conducted by the directorate and managers on regular basis to monitor the progress and achievements.

## 11. Organizational Development

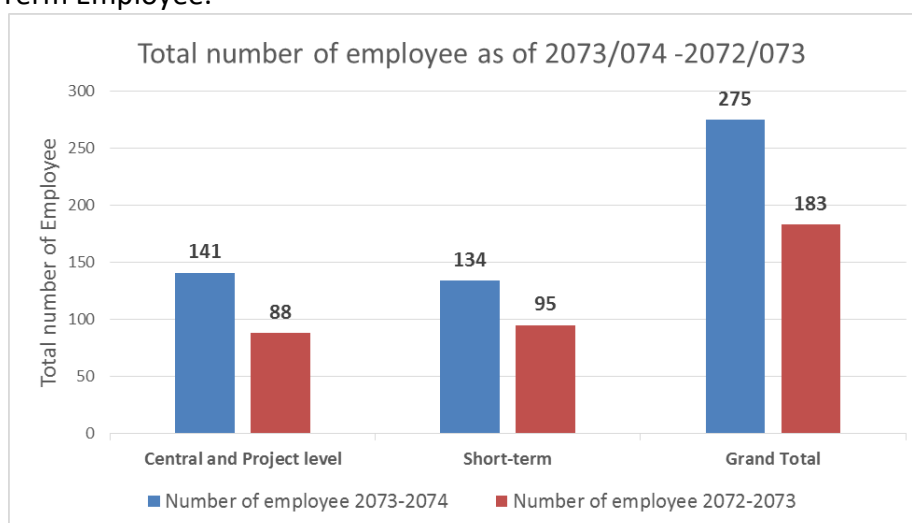
### 11.1 Human Resource Management

Human Resource Management plays an active role in securing the future achievement of the organization. In doing so, the function is directed by its long-term vision of working in partnership to create an environment where employees can flourish and are supported to deliver sustainable organizational performance. HRM is a source for competitive advantage and will influence the organizational results and performance in a positive direction. ENPHO established its functional HR Unit on 2016, under the Admin and Finance Division.

The following Human Resource indicators summarizes the annual workforce profile and include outline of trends for the periods 2072/73 – 2073/74.

#### Workforce size

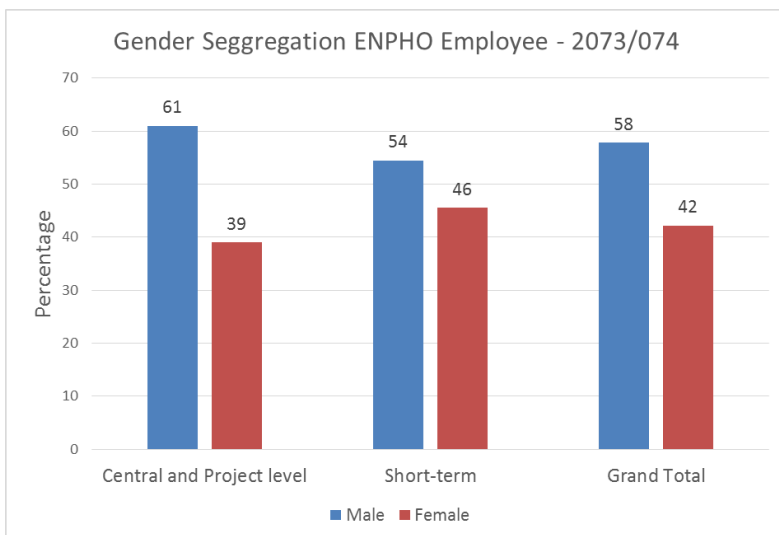
Human Resource of ENPHO has been categorized into: Central and Project (C/P) Employee and Short Term Employee.



Total number of Central and Project level employee for 2073-74 is 141, and 2072/073 is 88. An increase of 60% of employee since 2072/073. Total number of special service (LS) level employee for 2073-074 is 134 and 2072/073 is 95. An increase of 41% of employee since 2072/073. Total number of ENPHO employee for 2073/074 is 275 and 2072/073 is 183. An increase of 50% of employee since 2072/073. In year 2072/73 there were 48% & 52% percent of Central /project level to LS staff where as in year 2073/74 there were 51% & 49% percentage of Central and project level to LS staff.

**Gender segregation of employee**

Women comprise of 39% of total workforce of Central and project level staff and 46% of LS level staff. As of total, women comprise of 42% of total workforce percentage.

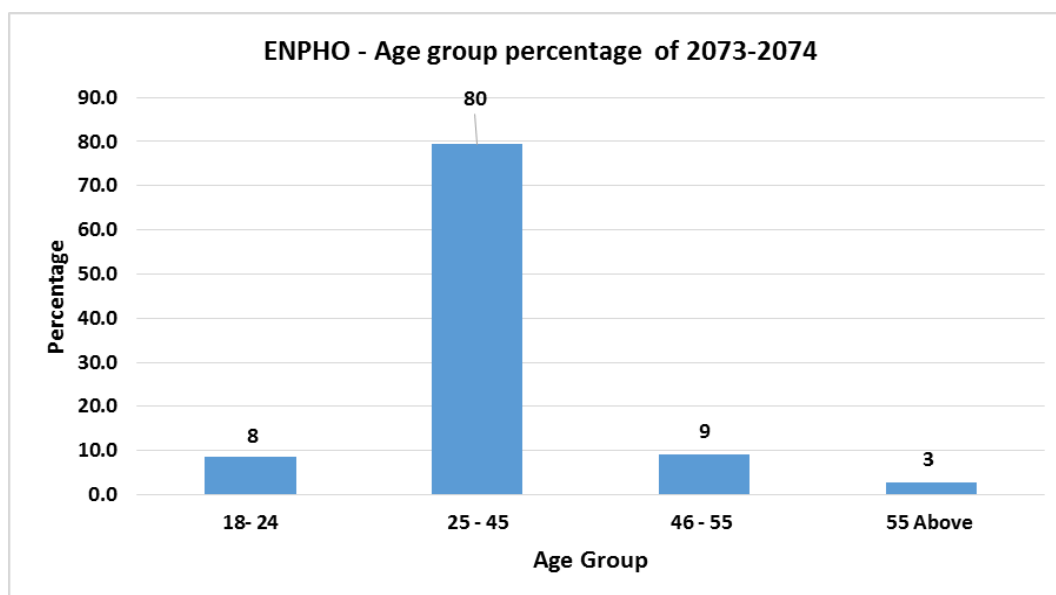


**Employee Turnover**

There is total of 15% employee turnover for Central and Project level, 27% for LS level staff on fiscal year 2073/74. Total turnover percentage for year 2073/74 is 21%.

**Age Profiling**

The age profiling calculated for **Central and Project (C & P) level** staff of ENPHO -2073/74. About 8% of C and P level staff is under the age of 24, whereas 80% of C & P level staff is between 25-45 years. The average age of ENPHO C and P level staff is 34 years.



**Employee Level segregation**

Total of 3 number of employee fall under Directorate level which is total of 1% of total employee percentage. Management level staff consists of 6 number of employee which is

2% of the total Employee percentage. The maximum amount of employee fall under LS Level staff total of 134 employees which is 48% of total employee percentage. Around 40% of total employee falls under Officer Level this is 107 numbers of staff. Total of 8% employee fall under associate level which is 21 numbers of employee.

## 11.2 Capacity Building of Staff

ENPHO highly supports the empowerment and capacity building of staff members at all levels to upgrade their skills.

### Exposure at National Level

ENPHO highly encourages all the staff members to participate in various workshops, trainings, orientation and programs organized at the national level to enhance their knowledge, skill and understanding through experience sharing. Refer **Annex VII** for the list of programs participated by the staff members at national level from August 2016 - July 2017.

### Exposure at International Level

ENPHO highly encourages senior and the most relevant staff members to participate in the programs invited by our International Partners and Donors. This has extended our sharing at the international level and increased our opportunities. Refer **Annex VIII** for the list of programs participated by the staff members at international level from August 2016 - July 2017.

### Further Study Opportunities

As a part of human resource development, ENPHO staffs have been pursuing further studies in regular basis.

### Volunteer and Internship Management

ENPHO has been providing opportunities to both national and international students to get knowledge and experience in various services and project of ENPHO by mobilizing them as volunteers and interns in various activities.

## International and National Interns and Volunteers

International and National interns and volunteers were appointed at ENPHO during FY 2016/17

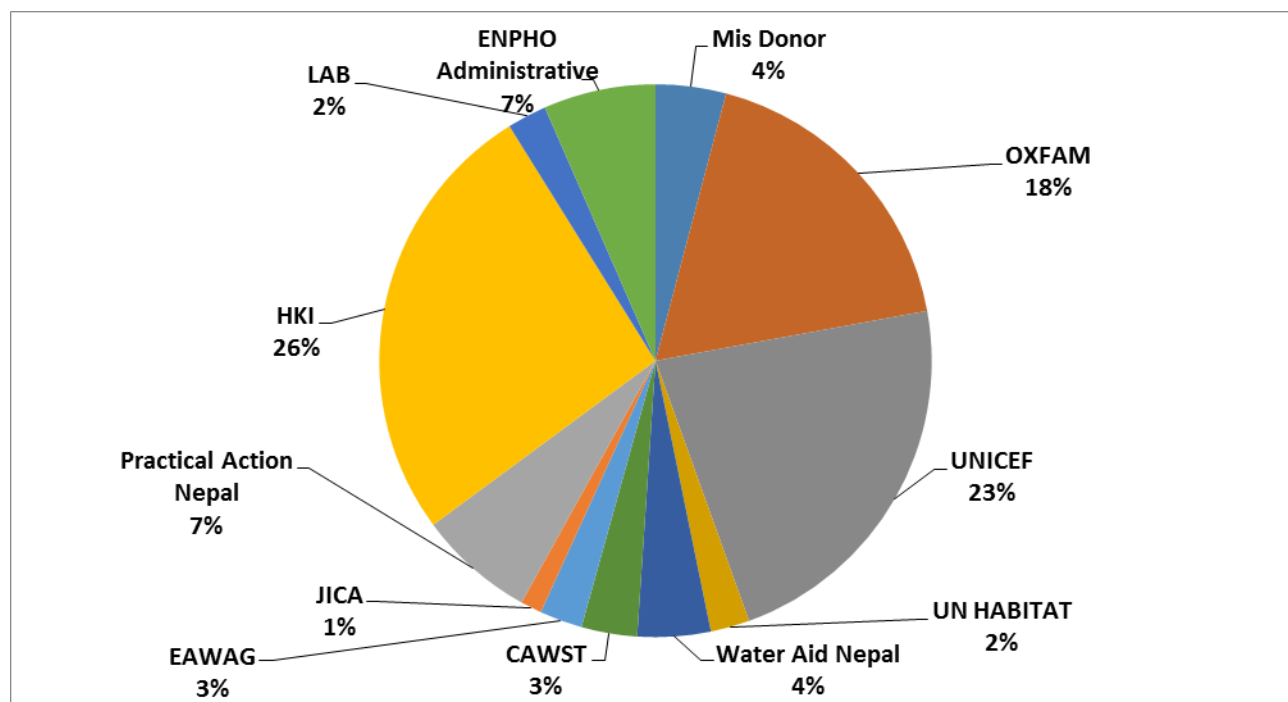
SN	Name	Position	Purpose
1	Ms. Rajita Gautam	International Intern	To conduct research on " Fecal Sludge Treatment Plant at Lubhu Municipality " Project
2	Mr. Sanjaya Amrutbhai Deu	International Intern	<ul style="list-style-type: none"> <li>• To make questionnaire, uploading it in Kobo toolbox, selection of municipalities and orientation for survey for Feasibility study on FSM at various municipalities in Nepal project.</li> <li>• To visit Lubhu and doing financial and managerial assessment, provided effective solutions to improve management and monitoring of FSTP, Lubhu and converted benefits of plant in scale of economy.</li> </ul>
3	Dr. Ashley Hagaman	International Volunteer	To work with ENPHO team as "Principal Investigator/Country Lead" for "Cross-cultural study of household water insecurity" project
4	Ms. Purnima Tamrakar	Paid Volunteer	N/A
5	Ms. Lasata Manadhar	Paid Volunteer	N/A
6	Mr. Suraj Shrestha	Volunteer	N/A
7	Mr. Niraj Shrestha	Volunteer	N/A
8	Ms. Lumanti Shrestha	Volunteer	N/A
9	Ms. Prathana Maskey	Volunteer	N/A
10	Ms. Ashma Shrestha	Intern	N/A
11	Ms. Anu Kumari Rai	Intern	N/A

## 12. Financial Management

### 12.1 Income

ENPHO's total income for the year 2016/17 was NRs. 232,379,446.05 (US\$ 22,59,181.86 conversion 1 USD = NRs. 102.86). This is a 15% decrease compared to the total income of 2015/16. The decrease in the total income was observed this year due to completion of earthquake related emergency projects in the previous fiscal year. The projects' contribution to ENPHO's annual income, in year 2016/17, 26% of total income was from SUSAHARA II by USAID/HKI and another 23% of total income from UNICEF, 18% of total income came from project supported by OXFAM, 7% of total income came from administrative income and 7% of total income came from practical Action Nepal supported projects.

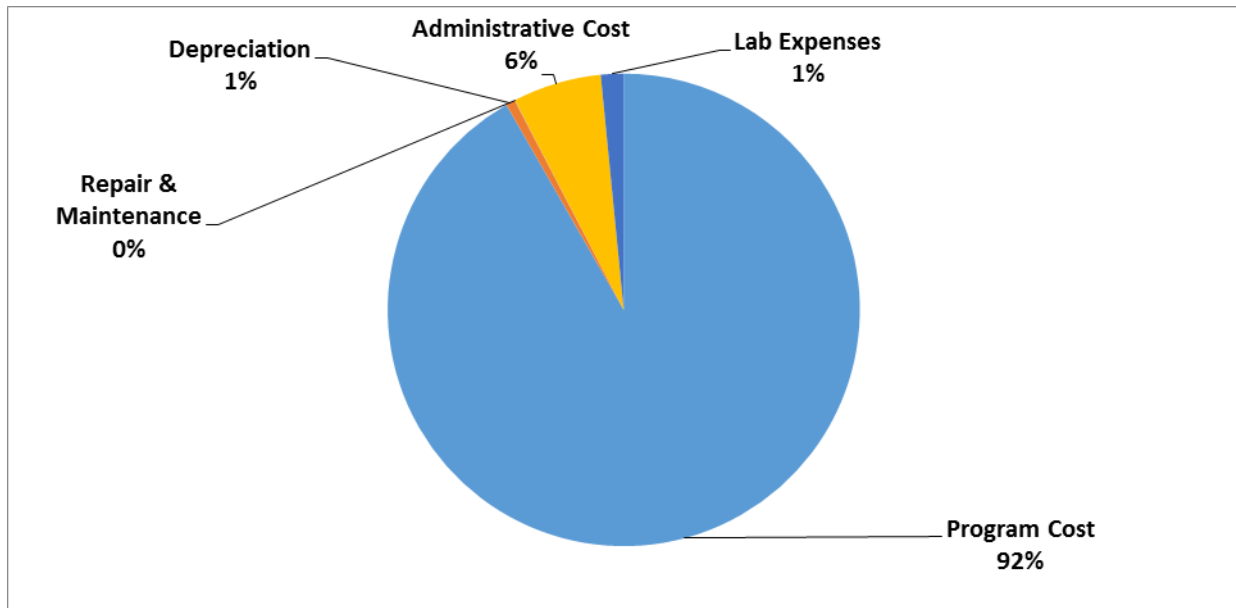
Out of ENPHO's annual income, 2% to the total income came from ENPHO Research Laboratory, services and PIYUSH production provided in the year 2016/17. The overall distribution of annual income is presented in the following graph.



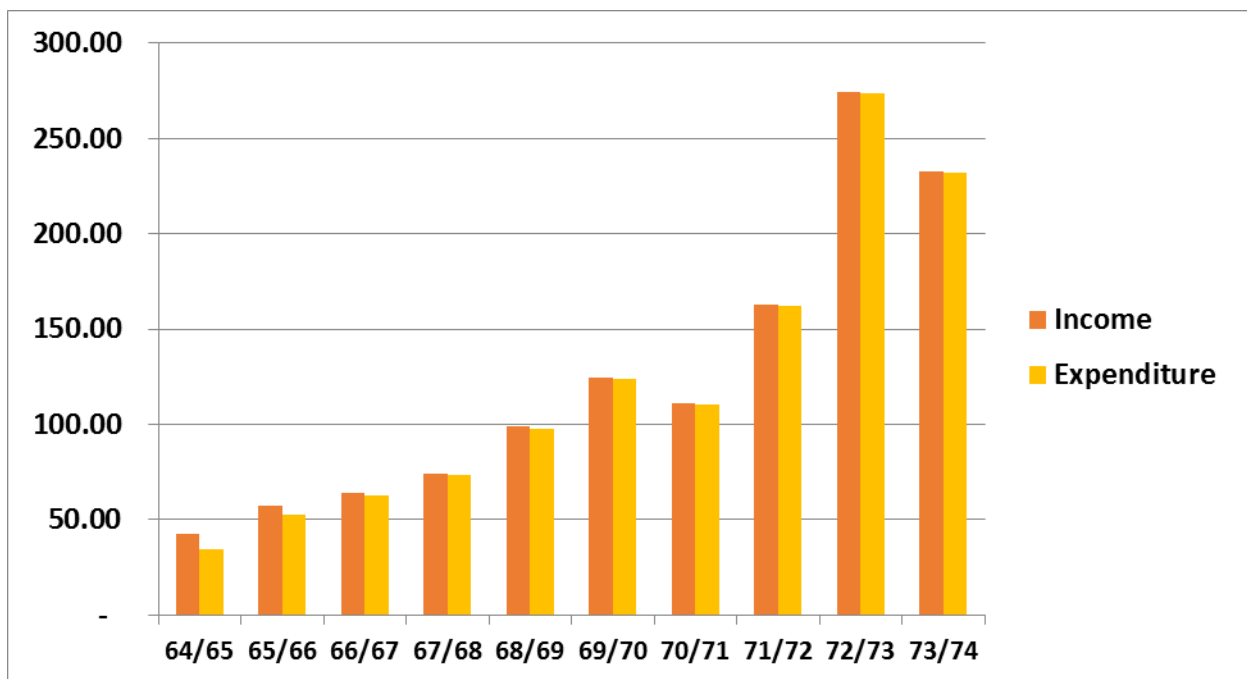
### 12.2 Expenditure

ENPHO's total expenditure for the year 2016/17 was NRs. 231,958,327.22 (US\$ 22,55,087.76, conversion 1 USD = NRs. 102.86). This is a 15% decrease compared to the previous year's expenditure. Of the total expenditure, 92% was spent on various on-going and completed programmes, while 6% was spent on administration expenses. The cost amounted for operation of ENPHO Research Laboratory services and PIYUSH production was 1% of the total expenditure. The overall distribution of annual expenditure is presented in the following graph.





### 12.3 Trend in Income and Expenditure over the Past 10 Years



Please refer Annex IX for financial audit report and Annex X for proposed budget for fiscal year 2074/75.

### 13. The Way Forward

The upcoming year is the first year to implement ENPHO's five-year strategic plan. As mandated by this strategic plan, we will be mainly focusing on research and development activities. Our focus shall remain on innovation, re-invention and scaling up viable and sustainable solutions at all level. For this, we need to strengthen Research Unit and foster our collaboration with national and international research institutions. We aim to working together with EcoConcern Pvt. Ltd. with effective strategies in delivering quality WASH services and to scale up dissemination of our products and services at all levels. We strive to become a national centre of excellence for capacity building at different levels. The concept of Environment and Public Health Institute (ENPHI) has to be translated into concrete action. We will continue our major publications such as Journal of Environment and Public Health, Anjuli, Advocacy bulletin contributing in sector knowledge management and dissemination. We will continue our cordial relationships with local implementers, partners and local government agencies in effective dissemination of WASH services and products.

With SUAHARA II project, we are expanding our project areas and we will continue to disseminate our services to reach larger populations and to collaborate with more local stakeholders. We will continue to support government initiative on Total Sanitation campaigns through technical support, local capacity building and demonstrations. We aim to support and work together with new elected local representatives on scaling up urban sanitation such as FSM, Wastewater Management and Solid Waste Management services at the local level in the strategic way. In addition, we will put our efforts to institutionalize DRR interventions at various levels.

With the new strategic plan in the place, the internal structure and staff placement should be aligned accordingly. We shall continue strengthening our internal management including coordination and cooperation in project development, implementation, documentation and publication. We all have to work hard to maintain ENPHO image as a dynamic and professional institution.

We look forward to having more productive and fruitful partnerships with all to contribute in achieving National Targets on WASH.

# ANNEXURES

## Annex I: Project List, FY 2016/17

S.N.	Project Title	Program Area/District	Partners	Duration
<b>Water Quality</b>				
1.	Water quality testing and analysis for development phase Batch-X schemes, Package 1.	Dolpa, Jajarkot, Kalikot, Mugu, Rolpa, Rukum, Surkhet, Jumla, Bardiya (9 districts)	Rural Water Supply and Sanitation Fund Development Board (RWSSFDB), Maharajgunj, Kathmandu	30 March - June, 2017
<b>Sustainable Sanitation</b>				
2.	Consulting service for construction of Decentralized wastewater treatment system (DEWATS).	Dhulikhel Hospital, Kavre district	Dhulikhel Hospital, Kathmandu University, Kavre	16 June, 2017 - June 2019
<b>Community Based WASH</b>				
3.	Open defecation free campaign in Bara. (Phase II)	10 VDCs of Bara district (Sihorwa, Rampurwa, Uttar Jhitkaiya, Kolhabi, Sapahi, Pipara Simara, Dohari, Haraiya, Bhodaha and Karaiya)	UN-HABITAT, Pulchowk, Lalitpur and Nepal Red Cross Society- Bara district chapter	15 July, 2016 - December, 2017
4.	Promote safe & productive use of (solid and liquid) waste for food protection around urban settlements in Surkhet.	Birendranagar Municipality and Kunthari VDC of Surkhet district.	The RUAF Foundation, Netherlands	March, 2016 - December, 2016
5.	Sustainable Water, Sanitation and Hygiene (SWASH) Project	Birendranagar municipality and Kunathari VDC of Surkhet district.	WASTE, Netherlands, The RUAF Foundation, Netherlands and WASH Alliance Nepal, Kupandol, Lalitpur	January - December, 2016
6.	Sustainable Water, Sanitation and Hygiene	Nagarkot of Bhaktapur district and	Water Aid Nepal, Nakhipot, Lalitpur	April, 2013 -

	(SWASH) project in Nagarkot.	Shankharapur municipality of Kathmandu		March, 2017
<b>Disaster Risk Reduction</b>				
7.	Earthquake recovery and reconstruction program in Lalitpur.	4 locations of Lalitpur district (Chaughare of Kyonjoso Rural Municipality, Gimdi of Bagmati Rural Municipality, Thula Durlung of Mahankal Rural Municipality) & Naete Kholcha (Dachinkali Municipality)	Oxfam, Jawalakhel, Lalitpur	April - 31 December, 2017
8.	Cholera/AWD preparedness in DRR approach for urban WASH.	Bafal, Lagan and Kalimati of Kathmandu (Ward 13, 14 and 21). Thaiba and Mangalbazar of Lalitpur district	UNICEF, Pulchowk, Lalitpur	25 April - 24 November, 2017
9.	Assessment of earthquake disaster risk for the Kathmandu valley in Nepal.	Gokul Chaur and Satdobato of Lalitpur district. Kapan, Chunikhel and Chapali Bhadrakali of Budhanilkantha municipality of Kathmandu. Kolachhen, Suryamadhi and Itachhen of Bhaktapur district	JICA, Lazimpat, Kathmandu	21 December, 2016 - December, 2017
10.	WASH recovery program in targeted communities and schools.	Dolkha and Kavre district	UNICEF, Pulchowk, Lalitpur	July, 2016 - December, 2017
11.	Building back better, institutionalizing and strengthening WASH sector for urban residents (BISWASH project)	Ward 2, 4, 5, 8, 11 and 12 of Panauti municipality of Kavre district	Practical Action, Panipokhari, Kathmandu	May, 2016 - October, 2017
12.	Post-earthquake support our school project.	Bhaktapur municipality and Madhyapur Thimi municipality of Bhaktapur district	Water Aid Nepal, Nakhipot, Lalitpur	February, 2016 - March, 2017
13.	Strengthening the health sector response capacity in the event of mass causality	Mahalaxmi Municipality of Lalitpur district and Bir Hospital of Kathmandu	Oxfam, Jawalakhel, Lalitpur	August, 2015 - August, 2016

	incidents in Kathmandu Valley (DIPECHO VIII).			
14.	Humanitarian WASH assistance in 7 earthquake affected districts of Nepal.	Kavre, Dolakha, Makwanpur, Nuwakot, Rasuwa, Ramechhap (7 districts)	UNICEF, Pulchowk, Lalitpur	May, 2015 - July, 2016
15.	Emergency response to Nepal earthquake.	Mahalaxmi municipality of Lalitpur district and Nagarkot municipality of Bhaktapur district	Oxfam, Jawalakhel, Lalitpur	April, 2015 - March, 2017
<b>Research and Development</b>				
16.	Study on wastewater in Kathmandu valley.	Kathmandu, Lalitpur and Bhaktapur district	JICA, Lazimpat, Kathmandu	13 March - July, 2017
17.	Collaboration to prepare costing tools for sanitary structure for household toilets, septic tank, anaerobic baffle reactor, anaerobic filters, constructed wetlands.		Department of Water Supply and Sanitation - Environment and Sanitation Section, Panipokhari, Kathmandu	10 January, 2017
18.	Research collaboration for the BMGE funded project "Evaluation of decentralized small scale sanitation (4S)"	30 various waste water treatment plants located in 10 districts (Bhaktapur, Chitawan, Kathmandu, Kaski, Kavre, Lalitpur, Makawanpur, Morang, Palpa, Rupandehi)	EAWAG, Switzerland	27 September, 2016 - 30 June, 2017
<b>WASH and Nutrition</b>				
19.	Suaahara II Good Nutrition program.	Taplejung, Panchthar, Sankhuwasava, Solukhumbu, Bhojpur, Dolakha, Sindhupalchok, Rasuwa, Nuwakot, Dhading, Rupandehi, Nawalparasi, Gorkha, Lamjung, Syangja, Myagdi, Baglung, Bardiya, Banke, Dang, Kapilbastu, Arghakhachi, Palpa, Gulmi,	HKI, Chakupat, Lalitpur	May, 2016 - April, 2021



		Pyuthan, Rolpa, Salyan, Rukum, Surkhet, Jajarkot, Dailekh, Darchula, Bajhang, Bajura, Doti, Dadeldhura, Baitadi, Achham, Kanchanpur, Kailali (40 districts)		
<b>Capacity building on WASH</b>				
20.	Reconstruction and resilience of WASH services through capacity building in Nepal.	Kavre, Dolkha, Sindhupalchowk, Nuwakot (4 districts)	CAWST, Canada	February, 2017 - March, 2020
21.	Poverty reduction and sustainable protection of natural resources in South Asia.	Six days technical training on DEWATS and FSM organized in Kathmandu. One FSTP constructed in Lubhu. Feasibility study for FSTP carried out in 8 cities (Banepa, Dhulikhel, Nijgadh, Itahari, Shuklagandaki, Gorkha, Dudhkunda, and Dachinkali) and is ongoing for 5 more cities.	BORDA, Germany	January 2016 - December, 2017

## Annex II: Major MoU 2016/17

SN	Description of MoU	MoU duration
1.	ENPHO signed MOU with Mahalaxmi Municipality and Saligram Bal Griha to operate and manage Faecal Sludge Treatment Plant at Saligram Bal Griha, Lubhu of Lalitpur district.	15 March, 2017 to March 2019
2.	ENPHO signed MOU with Naete Kholcha Sewerage Management and Sanitation Committee, Dachinkali Municipality and Oxfam to construct and operate DEWATS in Naete Kholcha (ward 6, 7) at Dachinkali municipality of Lalitpur district.	26 January, 2017 to 31 March, 2017
3.	ENPHO and Water Aid Nepal signed extended partnership agreement to improve access to safe drinking water & sanitation, promote hygiene practices in Nepal.	July, 2016 to July, 2017
4.	ENPHO and CAWST, Canada signed MOU to develop and strengthen a Water Expertise and Training Centre in Kathmandu, Nepal.	25 July, 2016 to December, 2020
5.	MOU signed between ENPHO and Rural Self Reliance Development Centre, Baluwatar to strengthen capacity of water user's committee of Lisankhu VDC of Sindhupalchowk district on operation and management of water supply scheme.	8 July to August, 2016
6.	ENPHO signed partnership agreement with Nagarkot municipality, Oxfam and DEPROSC to implement emergency response program in Nagarkot of Bhaktapur district.	17 June to September, 2016
7.	ENPHO signed partnership agreement with Mahalaxmi municipality, Oxfam and DEPROSC to implement emergency response program in Mahalaxmi municipality of Lalitpur district.	17 June, 2016 to March, 2017

## Annex III: List of Executive Board Members

ENPHO Executive Board Members (2014-2017)	
 <p><u>Mrs. Urmila Joshi, Chairperson</u> (M.Sc. in Botany, Food Technology Expert)</p>	 <p><u>Mr. Rajiv Joshi, Vice-Chairperson</u> (M.Sc. in Water Sanitation, Senior Water and Sanitation Engineer (KUKL) Project Implementation Directorate (PID))</p>
 <p><u>Mr. Pratap Kumar Acharya, Treasurer</u> (MBA, Finance Expert)</p>	 <p><u>Dr. Mingma Gyalzen Sherpa, Member Secretary</u> (Ph.D. in Environmental Engineering and Management, Director of 500B Solutions Pvt. Ltd)</p>
 <p><u>Prof. Dr. Kunjani Joshi, Executive Member</u> (Ph.D., Head of Botany Department-Patan Multiple Campus-Tribhuvan University, Former Chairperson of ENPHO )</p>	 <p><u>Dr. Chandra Lekha Tuladhar, Executive Member</u> (Ophthalmologist- Eye Specialist)</p>
 <p><u>Dr. Laxman Joshi, Executive Member</u> (Ph.D. in Agroforestry, Managing Director of Eco Concern Pvt. Ltd., Visiting Faculty in Kathmandu University)</p>	 <p><u>Mr. Prakash Amatya, Executive Member</u> (M.Sc. in Microbiology, Freelance Consultant)</p>
 <p><u>Mr. Bipin Danaol, Executive Member</u> (M.Sc. in Environmental Science, Executive Director of ENPHO)</p>	 <p><u>Mr. Rabin Bastola, Executive Member</u> (M.Sc. in Environmental Management, M.A. in Anthropology, Lecturer at Department of Environmental Science, Amrit Science Campus, Tribhuvan University)</p>

## Annex IV: ENPHO Staff List FY 2016/17

S. N.	Name	Designation
1	Bipin Dangol	Executive Director
<b>Outreach Division</b>		
1	Rajendra Shrestha	Outreach Director
2	Prashanna Man Pradhan	Senior DRR Manager
3	Ishor Ghimire	WASH Manager
4	Keshab Shrestha	IWASH Manager
5	Bijaya Thapa	Senior Program Officer
6	Srijana Shakya	Senior WASH Officer
7	Alok Chandra Newpane	Regional WASH Coordinator
11	Balram Sigdel	Regional WASH Coordinator
33	Khagendra Bahadur Sijapati	Regional WASH Coordinator
39	Mangal Dash Duwal	Regional WASH Coordinator
8	Anil Maharjan	Project Officer
9	Bal Kumari Khatiwada	District WASH Officer
10	Balram Nepali	District WASH Officer
12	Bharat Jung Shah	District WASH Officer
13	Bharat Rijal	District WASH Officer
14	Bhawani Prasad Shrestha	District WASH Officer
15	Bhishma Raj Khatri	District WASH Officer
17	Bijaya Sharma	District WASH Officer
18	Bikas Banjara	District WASH Officer
19	Binita Adhakari	District WASH Officer
20	Buddha Bajracharya	WASH Officer
21	Daya Ram Sharma	Master Triggerer
22	Debendra Bahadur Shah	District WASH Officer

23	Gagan Bahadur Thapa	District WASH Officer
24	Ganesh Bahadur Bhul	District WASH Officer
25	Govinda Prasad. Paundel	District WASH Officer
26	Gyan Prakash Yadav	District WASH Officer
27	Hari Bhakta Adhikari	District WASH Officer
28	Jag Bahadur Gharti	District WASH Officer
29	Jibendra Ghimire	Project Coordinator
30	Kamala Sapkota	District WASH Officer
31	Karna Bahadur Balayer	District WASH Officer
32	Kedar Koirala	District Coordinator
34	Kiran Maharjan	District WASH Officer
35	Kiran Prasad Dhungana	District WASH Officer
36	Krishna Prasad Chapagain	District WASH Officer
37	Krity Bajracharya	Documentation Officer
38	Kumar Bhattarai	District WASH Officer
40	Mangal Singh Sanba	District WASH Officer
41	Merina Shakya	Project Officer
43	Nava Raj Thapa	District WASH Officer
44	Nim Raj KC	District WASH Officer
45	Nityananda Pandey	District WASH Officer
47	Rabindra Bikram Shahi	District WASH Officer
48	Rajendra Baral	District WASH Officer
49	Raju Chaudhary	District WASH Officer
50	Ram Chandra Karmacharya	WASH Technical Officer
51	Ram Krishna Bilash Pant	District WASH Officer
52	Ramu Parajuli	District WASH Officer
53	Ran Bahadur Saru	District WASH Officer
55	Rekha Rokaya	District WASH Officer
56	Roshan Chaulagain	District WASH Officer

57	Sabita Adhikari	District WASH Officer
59	Saraswati Puri Bam	District WASH Officer
60	Shankar Bdr. BK	District WASH Officer
61	Sher Singh Bista	District WASH Officer
62	Shreejana Panthi	District WASH Officer
63	Subarna Maharjan	Project Officer
64	Tej Raj Upadhyaya	District WASH Officer
65	Tika Upreti	District WASH Officer
46	Bibek Ghimire	Engineer
67	Kripa Karki	Engineer
42	Milan Shrestha	Engineer
77	Mukesh Kumar Pandit	Engineer
54	Nisha Shrestha	Engineer
69	Prabina Shrestha	Engineer
70	Reetu Rajbhandari	Engineer
78	Santosh Dahal	Engineer
16	Swadesh Khatri	Engineer
84	Chandra Bahadur Chaudhary	Junior Engineer
58	Prabin Karna	Junior Engineer
71	Sushil Nhemhaphuki	Junior Engineer
66	Bivor Maharjan	Assistant Project Officer
68	Merina Maharjan	Assistant Project Officer
74	Sarmila Gwachha	Assistant Project Officer
76	Suma Maharjan	Assistant Project Officer
72	Chandra Narayan Pradhan	Field Coordinator
73	Dilli Singh Waiba	Field Coordinator
75	Rajesh Byanjankar	Field Coordinator
79	Rama Shankar Chaurasiya	Field Coordinator
80	Rameshwor Joshi	Field Coordinator



81	Reshma Shrestha	Field Coordinator
82	Sujeet Shrestha	Field Coordinator
83	Binod Awale	Senior Social Mobilizer
85	Masini Tamang	Senior Social Mobilizer
86	Radip Pariyar	Senior Social Mobilizer
87	Rajendra Mahato	Senior Field Associate
88	Rama Malla	Senior Social Mobilizer
89	Sarita Gautam	Senior Social Mobilizer
90	Shristi Maharjan	Senior Social Mobilizer
91	Siddhartha Shakya	Senior Social Mobilizer
92	Ashok Tamang	Social Mobiliser
93	Bhuwan Shrestha	Social Mobiliser
94	Buddha Tamang	Social Mobiliser
95	Jyotindra Suwal	Social Mobiliser
96	Kancha Man Jimba	Social Mobiliser
97	Krishna Rijal	Social Mobiliser
98	Kumod Sharma	Social Mobiliser
99	Nabin Basnet	Social Mobiliser
100	Nirmal Awale	Social Mobiliser
101	Rockey Tulsibakhya	Social Mobiliser
102	Sanu Kanchha Bhulun	Social Mobiliser
103	Shyam Lal Tamang	Social Mobiliser
104	Anil Shrestha	Community Motivator
105	Guna Laxmi Manandhar	Community Motivator
106	Khem Prasad Sharma	Community Mobiliser
107	Megh Bahadur KC	Community Mobiliser
108	Rom Harsh Oli	Community Mobiliser
109	Sita Chaudhary	Community Mobiliser
117	Babita Chaudhary	Triggerer

188	Bacchalal Yadav	Triggerer
197	Mukesh Mahato Dhanuk	Triggerer
200	Niruta Thapa	Triggerer
119	Nisha Lama	Triggerer
160	Rupesh Kumar Singh	Triggerer
165	Sima Chaudhary	Triggerer
166	Sita Ram Paswan	Triggerer
110	Akash Subba	WASH Triggerer
111	Abita Chaudhari	WASH Triggerer
112	Alisha Sunar	WASH Triggerer
113	Amrita Magar	WASH Triggerer
114	Arujun Nau	WASH Triggerer
115	Ash Bahadur Gurung	WASH Triggerer
116	B Maya BK(Gharti)	WASH Triggerer
118	Babita Subedi	WASH Triggerer
120	Bela Sunar	WASH Triggerer
121	Bhakta Bahadur Somi	WASH Triggerer
122	Bharat oli	WASH Triggerer
123	Bimala Bhatta Joshi	WASH Triggerer
124	Binita Bhattri	WASH Triggerer
125	Binod khadka	WASH Triggerer
126	Bir Bdr Damail	WASH Triggerer
127	Birmaya Sunar	WASH Triggerer
128	Bunima Tamang	WASH Triggerer
129	Chandra Kumari Gurung	WASH Triggerer
130	Dhani Ram Murya	WASH Triggerer
131	Dhanmala Roka	WASH Triggerer
132	Dhurba Bharati	WASH Triggerer
133	Dinesh Kumar Yadav	WASH Triggerer

134	Dipraj Gupta	WASH Triggerer
135	Eliza Tamang	WASH Triggerer
136	Ganesh Halwai	WASH Triggerer
137	Gehendra KC	WASH Triggerer
138	Giri Raj Poudel	WASH Triggerer
139	Gita Dhimi	WASH Triggerer
140	Gita Gurung	WASH Triggerer
141	Gita Jugjali	WASH Triggerer
142	Hem Bahadur Adhikari	WASH Triggerer
143	Hira Bahadur Rana	WASH Triggerer
144	Kalpana Kumari Baidhya	WASH Triggerer
145	Kamala K. Kuwar	WASH Triggerer
146	Keshab Tamang	WASH Triggerer
147	Khemraj Rana	WASH Triggerer
148	Krishna Kumar Gautam	WASH Triggerer
149	Krishna Srish (Magar)	WASH Triggerer
150	Kumari Jaya Kala Rana/Chhetri	WASH Triggerer
151	Lal Kaji Basnet	WASH Triggerer
152	Lalita Kumari Rawol	WASH Triggerer
153	Laxmi Prasad Adhikari	WASH Triggerer
154	Laxmi Rana Mager	WASH Triggerer
155	Man Bahadur Karki	WASH Triggerer
156	Man Kumar Subba	WASH Triggerer
157	Manisha Chepang	WASH Triggerer
158	Manu Kumari Bista	WASH Triggerer
159	Min Bahadur Khatri	WASH Triggerer
161	Nagendra Acharya	WASH Triggerer
162	Narendra Oli	WASH Triggerer
163	Nirmala Luitel	WASH Triggerer

164	Nirmala Khadka Magar	WASH Triggerer
167	Prakash Pandit	WASH Triggerer
168	Prakash Shing Dhami	WASH Triggerer
169	Pramila Khadka	WASH Triggerer
170	Pratisha Tilija	WASH Triggerer
171	Prem Bdr Bhul	WASH Triggerer
172	Prithipal Teli	WASH Triggerer
173	Purusottam Chaudhary	WASH Triggerer
174	Pushpa Gurung	WASH Triggerer
175	Puspa Giri	WASH Triggerer
176	Radheshyam Paudel	WASH Triggerer
177	Radhika Ghimire	WASH Triggerer
178	Rajan Thegim	WASH Triggerer
179	Rajendra Lodha	WASH Triggerer
180	Rajesh Chaudhary	WASH Triggerer
181	Rajesh Thapa	WASH Triggerer
182	Raju Chhetri	WASH Triggerer
183	Ram Bahadur Khanal	WASH Triggerer
184	Ram Kumar chaudhary	WASH Triggerer
185	Rita Dhakal Bhandari	WASH Triggerer
186	Roma Panthi (Khanal )	WASH Triggerer
187	Rup Prasad Gurung	WASH Triggerer
189	Sabina Singh	WASH Triggerer
190	Sangita Nagmang	WASH Triggerer
191	Santabir Tamang	WASH Triggerer
192	Santi Devi Bal	WASH Triggerer
193	Sanu Maya Tamang	WASH Triggerer
194	Sarada Kumari Bhutyal	WASH Triggerer
195	Shanti Shahi	WASH Triggerer

196	Shital Bhiswakarma	WASH Triggerer
198	Sima Tharu	WASH Triggerer
199	Sita Kumari Budha (Thapa)	WASH Triggerer
201	Srijana Kumari Khadka	WASH Triggerer
202	Sudarsan Pandey	WASH Triggerer
203	Sun Kumari Budha Magar	WASH Triggerer
204	Sunita Tharu	WASH Triggerer
205	Surendra Bdr. Bam	WASH Triggerer
206	Suryamati Yadav	WASH Triggerer
207	Susila Kandel	WASH Triggerer
208	Tara Ram Mahar	WASH Triggerer
209	Tej Kumar Thapa	WASH Triggerer
210	Tek Kumari Gurung	WASH Triggerer
211	Tham Kumari Sapkota	WASH Triggerer
212	Tilak Chantel	WASH Triggerer
213	Tilak Ram Badhai	WASH Triggerer
214	Yog Maya Giri	WASH Triggerer
<b>Admin and Finance Division</b>		
1	Nirajan Pradhan	Administration and Finance Director
2	Anita Shrestha	Senior Administration Officer
3	Pramila Amatya Joshi	Senior Finance Officer
4	Ani Maharjan	Finance Officer
5	Bandana Shrestha	Finance Officer
6	Dharma Prajapati	Logistic Officer
7	Dixa Shrestha	HR Officer
8	Niraj Man Shrestha	Finance Officer
9	Sajal Shrestha	Finance Officer
10	Sarita Shrestha	Finance Officer
11	Ajay Nakarmi	Assistant Finance Officer

12	Asha Shrestha	Assistant Admin Officer
13	Anita Shrestha	Assistant Finance Officer
14	Nikita Shrestha	Assistant Finance Officer
15	Pramila Maharjan	Assistant Administration Officer
16	Rajendra Maharjan	Assistant Finance Officer
17	Suraj Swongamikha	Assistant Finance Officer
18	Babu Kaji Magar	Senior IT Associate
19	Kiran Prajapati	Senior Logistic Associate
20	Rajan Pradhan	Senior Administration Associate
21	Sangita Acharya	Senior HR Associate
22	Umang Ghale	Finance Associate
23	Sabina Magar	Receptionist
24	Chintu Thapa	Driver
25	Kamala Khatri	Office Support Staff
26	Raju Khatri	Office Support Staff
27	Binita Khadka	Office Assistant
28	Gita Chaudhary	Office Assistant
29	Manju Sudhakar	Office Assistant
<b>Knowledge Management Division</b>		
1	Ash Kumar Khaitu	Training Centre Manager
2	Rosy Singh	Resource Centre Manager
3	Srijana Karki	Senior WASH Officer
4	Ankit K Aryal	Advocacy Officer
5	Chandra Shova Khaitu	EPD Officer
6	Lerica Gorkhaly	Documentation Officer
7	Shobha Rana	WASH Training Officer
8	Subash K.C	WASH Training Officer
9	Hari Bahadur Budhathoki	Assistant Technical Officer
10	Sabuna Gamal	Assistant WASH Training officer



11	Anita Bhuju	Senior RC Associate
12	Ritu Sharma	Senior RC Associates
13	Tej Kiran Joshi	Senior RC Associate
14	Yogesh Shrestha	Senior IT Associate
15	Rabina Milapati	Training Centre Associate
<b>Planning Monitoring and Evaluation (PME) Unit</b>		
1	Yubraj Shrestha	Senior PME Officer
2	Bhintuna Shrestha	Monitoring & Documentatiion Officer
3	Chhoden Lama Yonzon	PME Officer
<b>Research and Development Division</b>		
1	Jagam Shrestha	Senior WASH Officer
2	Binod Chhetri Bhandari	Assistant Research Officer
3	Subin Kalu	Assistant Research Officer
<b>Laboratory and Production Division</b>		
1	Padmaja Shrestha	Senior Technical Advisor
2	Pramina Nakarmi	Laboratory Manager
3	Bibha Shah	Analyst - Microbiology
4	Isha Dhakal	Project Officer
5	Nabina K.C	Analyst Technical Officer
6	Ambika Khanal	Assistant Documentation Officer
7	Bhajaram Maharjan	Assistant Production Officer
8	Bishnu Prasad Koirala	Assistant Analyst
9	Ruby Joshi	Senior Lab Associate
10	Raju Tamang	Lab Boy

## Annex V: List of programs organized (August 2016- July 2017)

### Program Organized:

- ENPHO provided technical support to conduct a half day orientation on ‘Prevention on Water Borne Diseases’. Collectively, 62 participants (46 female and 16 male) from 30 wards of Lalitpur Sub-Metropolitan City attended the training.( 28 July, 2016)
- ENPHO provided technical support to a one day orientation program on ‘Waterborne and Epidemic Disease Control’ organized at LSMC, Social Welfare Division. Collectively, 89 individuals (74 female and 15 male) from different organizations participated in the orientation.( 8 August, 2016)
- ENPHO provided technical support for the WASH orientation programs of a ‘Cholera Prevention Campaign’ organized by District Public Health Office (DPHO). Collectively, 158 participants (99 female and 59 male) participated during the program. (22 and 23 August, 2016).
- A one day orientation on “Menstrual Hygiene Management (MHM)” was conducted at Shree Padma Higher Secondary School, Bhaktapur. Collectively, 24 students (including 13 girls and 11 boys) and 3 teachers were oriented. (2 September, 2016)
- ENPHO facilitated the Public Health Engineering course for the students of Asian College of Management and Technology. Altogether, 8 students participated in the workshop. (14 to 18 December, 2016)
- An orientation program was organized for the students of Kalika Primary School and Ne. Ra. Secondary School located at Birendranagar Municipality. Altogether, 110 students (58 female and 52 male) participated in the program. (15 to 16 December, 2016.)
- ENPHO organized an orientation program on Safe Water to the students of Shree Krishna Higher Secondary School at Surkhet. (18 December, 2016)
- A Focus Group Discussion (FGD) under the “Emergency Response to Nepal Earthquake” project, was organized for a group of formerly trained participants of Alternative Sanitary Napkins (ASN). (19 January, 2017)
- ENPHO in collaboration with Oxfam organized an orientation program on “Disaster Risk Reduction (DRR)” for the teachers and students of Shree Gambhir Samundra Shetu Secondary School located at Imadol, Mahalaxmi Municipality.
- ENPHO Training Centre organized a one-day orientation program on “Menstrual Hygiene Management (MHM)” at Tara Secondary School, Bhaktapur. Altogether, 20 students from grades 6 to 9 participated in the program. (10 March, 2017.)
- Marking the World Water Day 2017, ENPHO organized different interaction programs targeting the women’s groups, youth groups, child clubs, local leaders, and the community people that were conducted at different Suaahara–II implemented district. ( 22 March, 2017)

- ENPHO under the “Follow-up Open Defecation Free Campaign at Bara District” project organized an orientation on ‘Water Purification Techniques’ for the V-WASH-CC members of Bara. (22 March, 2017)
- ENPHO under ‘Supporting Educational and Environmental Development in Schools (SEEDS) Initiative project organized an orientation program at Shreekhandapur, Kavre. (27 April, 2017)
- Under the Suaahara-II program, orientation program on ‘Total Sanitation’ was conducted in coordination with Rapti and Dangisharan RM/WASHCC, District Education Office and WSSDO at Lalmatiya and Hekuli VDC. Altogether, 86 participants (29 female and 57 male) participated in the program. (19 and 22 May, 2017)
- An orientation program on WASH and Menstrual Hygiene management (MHM) was conducted in coordination of DEO, school and both rural municipal of Lalmatiya and Hekuli VDC. Altogether, 940 adolescent girls and child club members (female 588 and male 352) participated in the 30 orientation events.
- ENPHO under the “Supporting Educational and Environmental Development in School (SEEDS) Initiative” project organized a one day orientation on “Menstrual Hygiene Management (MHM) and Home-made Pad” for the child club members of Shree Shreekhandapur Secondary School. Altogether 31 (20 girls and 11 boys) students were orientated. (28 May, 2017)

#### **Training Organized:**

- ENPHO in collaboration with Oxfam, under the ‘Emergency Response to Nepal Earthquake’ project, organized a week long mason training for community members of Mahalaxmi municipality, at Lamatar, Lalitpur. Collectively, 20 participants were trained during the training. (16 to 22 September, 2016)
- ENPHO in collaboration with Water Supply and Sanitation Division Office (WSSDO) organized a total sanitation training at the District Development Committee (DDC) Hall, Charikot, Dolakha. Collectively, 34 participants (6 females and 28 males) attended the training. (1 and 4 July, 2016)
- ENPHO, under DIPECHO-VIII project, conducted a two days training on emergency WASH for WASH task teams at Hi-Saturday Resort Pvt. Ltd., Lamatar. Collectively, 31 participants from wards 1, 2, 3, 4, 6, 12, 14 and 17 participated in the training. (13 and 14 July, 2016)
- ENPHO in collaboration with OXFAM conducted three series of a two days capacity building training on at Local Development Training Academy (LDTA) Jawalakhel, Lalitpur. (17 and 18 July, 19 and 20 July, and 21 and 22 July, 2016)
- ENPHO with the support of Centre for Affordable Water and Sanitation Technology (CAWST), organized a “Delivering Effective WASH Training” at ENPHO Hall, New Baneshwor. Collectively, 17 participants (8 female and 9 male) attended the training. (19 to 23 July, 2016)
- ENPHO in collaboration with the Centre for Affordable Water and Sanitation Technology (CAWST) and WaterAid Nepal, organized a training on “Household Water Treatment and Safe Storage (HWTS)” at Hotel Sweet Home in Bhaktapur. Collectively, 19 participants (11 female

and 8 male) from 15 of the earthquake affected schools of Bhaktapur district attended the training. (26 and 27 July, 2016)

- ENPHO organized three days of concrete products production training for the Bio-sand filter entrepreneurs at Raju Cement Samagri Udhyog, Bardaghat, Nawalparasi. Collectively, 24 entrepreneurs, including one female participated in the training. (from 25 to 27 July, 2016)
- ENPHO under the, “SWASH” project in collaboration with WASTE – The Netherlands, The RUAF Foundation, WASH Alliance Nepal, organized a two-day ‘Integrated Solid Waste Management Training’ for the local residents of Birendranagar municipality. Altogether 28 local residents participated in the training. (24 and 25 October, 2016)
- ENPHO under the, “SWASH” project, organized a two day “Water Safety Plan (WSP)” training for Water Supply Users Committee of Shankarapur-6, at Shankharapur, Kathmandu. Collectively, 20 participants were capacitated on WSP guidelines. ( 25 and 26 October, 2016)
- ENPHO Training Centre with the support of Centre for Affordable Water and Sanitation Technology (CAWST), organized a Training on ‘Total Sanitation (SWASTHA Approach)’ at Indreni Foodland, New Baneshwor. Collectively, 18 participants (10 female and 8 male) actively attended the training.(8 to 11 November, 2016)
- ENPHO provided its technical support for the training on “Water Quality Testing and its Importance”, organized by UNICEF, at Pipaltar-5, Nuwakot. Collectively, 7 participants (including 1 female and 6 male) participated in the event. (17 November, 2016)
- ENPHO Training Centre with the support of CAWST, organized a four day in-house training on “Creating Effective WASH Training (CEWT)” at ENPHO Hall, New Baneshwor. Collectively, 5 staff members from ENPHO Training Centre unit and 2 staffs from Outreach Division participated in the training.( 14, 15, 17 and 18 November, 2016)
- ENPHO with the support of Water Aid Nepal, under the “SWASH” project, organized a training on “Operation and Maintenance” of Water Supply System at National Water Supply and Sanitation Training Centre, Nagarkot. Collectively, 15 (4 female, 11 male) were trained. (21 and 22 November, 2016)
- ENPHO organized a project sharing workshop of “Post-Earthquake Support Our School” project, at Hotel Sweet Home, Bhaktapur. ( 28 November, 2016)
- ENPHO in coordination with Oxfam and Balaju School of Engineering and Technology organized a five-day mason training for the locals of Chaughare VDC at Balaju Industrial Area, Balaju.
- ENPHO in coordination with UN-HABITAT, CAWST, and Nepal Red Cross Society, Bara District Chapter, organized a “Training of Trainer (ToT) on Sensitizing Tool for Total Sanitation (STTS)” at Kalaiya, Bara. Altogether, 14 (4 female and 10 male) participants actively participated in the training. (29 November and 2 December, 2016)
- ENPHO under the “SWASH” project and with the support of WASTE-the Netherlands organized a two-day training on “Productive Reuse of Waste” at Birendranagar Municipality.

Altogether, 26 members (24 female, 2 male) of Tole Lead Organizations (TLO) participated in the training. ( 5 and 6 December 2016)

- ENPHO with the support of Oxfam, organized a training on homemade sanitary napkins for the women of Chaugare VDC, Lalitpur. Altogether, 30 women of Chaugare VDC were trained. (16 December, 2016)
- A closing workshop of “Sustainable Water, Air, Sanitation and Hygiene (SWASH), Nagarkot Project”, was organized at Hotel Sweet Home, Bhaktapur. Altogether, 47 representatives attended the program. (18 December, 2016)
- ENPHO organized a two-day training on ‘Community Disaster Risk Reduction’ for Community Disaster Management Committee (CDMC) members of various wards of Panauti Municipality. Altogether, 33 CDMC members, including community volunteers, participated in the training. (14 to 15 December, 20 to 21 December and 22 to 23 December, 2016)
- ENPHO with the support of CAWST, organized a five-day training on “Bio-Sand Filter Project Implementation (BSF PI)”, at Gaidakot, Nawalparasi. ( 19 to 23 December, 2016)
- ENPHO organized a “Regional Workshop on Urban Sanitation and Urban Agriculture - An Opportunity of Scaling Up in Mid -Western Development Region” at Nepalgunj. (25 to 26 December 2016)
- Under the “Emergency Response to Nepal Earthquake” project and with the support of Oxfam, ENPHO organized a four-day training on “Improved Cooking Stoves (ICS)” for the women of Gairigaun village at Gairigaun of Mahalaxmi Municipality. Altogether, 22 women participated in the training. (26 to 29 December, 2016)
- ENPHO under the BISWASH project and in coordination with Practical Action Nepal, completed a Vulnerability Capacity Assessment (VCA) Training at Balthali Resort of Panauti Municipality. Collectively, 60 volunteers (40 female and 20 male) from 12 wards of Panauti Municipality participated in the training.( 8 to 13 January, 2017)
- ENPHO under the “Follow up Open Defecation Free Campaign in Bara District” project organized a two-day training on ‘Total Sanitation’ for the VDC Secretary of Bara District. (26 and 27 January, 2017)
- ENPHO with the support from Practical Action Nepal, organized a two-day training on Local Disaster Risk Management Planning (LDRMP) Guidelines and the 14 Step Development Planning Process at Bhangeri Durbar Resort, Nagarkot. Collectively, 32 participants (2 female and 30 male) attended the training. (26 and 27 January 2017)
- ENPHO under the “SUA AHARA II” project conducted a training on ‘Total Sanitation’ for the partner NGOs /INGOs at Panchthar. ( 29 and 30 January, 2017)
- ENPHO under the “Emergency Response to Nepal Earthquake” project and with the support of Oxfam, organized a “Gender Analysis Workshop” at Tathali and Bageshwori of Nagarkot Municipality. Altogether, 30 and 21 participants from Tathali and Bageshwori respectively attended the workshop. (8 and 9 February, 2017)

- Quarterly Project Review of the BISWASH project was carried out amidst a workshop organized, at Greenwich Hotel, Kupondole. Collectively, 21 members including representatives from ENPHO and Practical Action Nepal participated in the workshop. (17 February, 2017)
- ENPHO, with the support of Practical Action Nepal, conducted Emergency WASH (E-WASH) training, at Panauti Municipality. Altogether, 37 participants attended the training. (21 to 23 February, 2017)
- ENPHO organized a Community Search and Rescue Training. Collectively, 21 CSAR taskforce volunteers participated in the training. ( 20 February to 1 March, 2017)
- ENPHO provided a technical support for “Operation and Maintenance” training organized by Community Development and Environmental Conservation Forum (CDECF) at Sindhupalchowk district and Dolakha district. Altogether, 117 (75 from Dolakha and 45 from Sindhupalchowk) participants attended the training. (1 to 24 March)
- ENPHO in cooperation with JICA project team conducted a two day ‘CBDRRM (Community Based Disaster Risk Reduction and Management) Workshop on Learning Risks and Disaster Risk Reduction and Management (DRRM)’ in the pilot ward of Lalitpur Metropolitan City and Budhanilkantha Municipality. Altogether, 64 participants were oriented through the workshop. (6 to 10 April, 2017)
- ENPHO Training Centre organized a training on “Operation and maintenance of water supply schemes” at ENPHO Hall, Baneshwor. Altogether, 17 ENPHO staff members participated at the program. (17 to 19 May, 2017)
- ENPHO with the support of UNICEF under ‘Cholera/AWD Preparedness in DRR Approach for urban WASH in Kathmandu Valley’ project organized “Minimum Emergency Preparedness Activities (MEPA) Workshop” at Hotel Yellow Pagoda. Altogether, 33 members from 7 different partner organization participated in the workshop. (31 May to 1 June, 2017)
- ENPHO under the “Nepal Earthquake Recovery Fund (NERF)” project and with the support of GAC and CAWST, organized a training on “Bio-sand Filter Project Filter (BSF-PI)” at Hotel Jugal Inn, Chautara, Sindhupalchowk. Altogether, 49 participants (24 female and 25 male) participated in the training. (24 May to 9 June, 2017)
- ENPHO with the support of UNICEF organized a training on “Training of Trainers (ToT) on Cholera/AWD (Acute Watery Diarrhea) preparedness” to the consortium partners at Alfa House, New Baneshwor. Altogether, 20 participants from CIUD, UEMS, SOYA, Minergy and ENPHO participated at the event. (25 to 28 June, 2017)

**Events Organized:**

- ENPHO, under the SWASH project, conducted a monitoring visit at Ward-WASH-CC in Nagarkot-11. (1 July, 2016)
- ENPHO, under SWASH project, organized an interaction program at wards 11, 12 and 13 in Nagarkot. Collectively, 24 participants attended the event. ( 6 July, 2016)



- ENPHO Training Centre hosted a two days “Learning Exchange Program” amongst Biosand filter entrepreneurs at Tikapur, Kailali. ( 6 and 7 July, 2016)
- A closing program was organized on the occasion of the 7<sup>th</sup> Anniversary of Paschim Paaila, at Café de Patan, Lalitpur. Collectively, 70 members gathered to make the event successful. (17 July, 2016)
- A closing program was organized to commemorate the successful execution of the “SUSIL Project” and to acknowledge the commendable contributions of the project team members, at Hotel De Namaste, Surkhet. ( 27 July, 2016)
- A closing program was organized at ENPHO Hall, New Baneshwor to commemorate the successful execution of the “SAFA and SWASTHA Gulariya Project” and to acknowledge the commendable contributions of the project team members. (28 July, 2016)
- ENPHO facilitated a field visit for personnel from Haiphong Sewerage and Drainage Company; Socialist Republic of Vietnam, team members of the Third Small Towns Water Supply and Sanitation Sector Project (TSTWSSSP), and Department of Water Supply and Sewerage (DWSS) to the Faecal Sludge Treatment Plant at Mahalaxmi municipality, Lubhu, Lalitpur. Over 15 individuals, including ENPHO personnel, were part of the visit. (16 August, 2016)
- ENPHO organized its 25th Annual General Meeting at ENPHO Hall, New Baneshwor. (10 September, 2016)
- ENPHO under the “Post-Earthquake Support Our School” project and in collaboration with Water Aid Nepal, organized a month long WASH campaigns for the members of the child clubs of various schools. Altogether, 153 (88 female and 65 male) students and teachers benefited from the program.
- The monitoring visit was conducted to Bista Tole Water Supply Scheme encompassing Saradabata VDCs 1, 5 and 7 of Kavre district. Collectively, 55 participants were present during the event.( 4 October, 2016)
- A celebration program was organized to mark the ‘Global Handwashing Day 2016’ at Chadani Chowk-15 of Birendranagar municipality. Altogether, 70 participants attended the program. (15 October, 2016)
- Under the “Post Earthquake Support Our School” project, WaterAid Canadian Supporters conducted a field visit at two schools namely Vidhyarthi Niketan Higher Secondary School and Tara Secondary School of Bhaktapur district. (20 October, 2016)
- Under the “SWASH Project”, ENPHO, with the support of WaterAid Nepal, organized a Healthy Baby Competition at the joint ward office of Nagarkot municipality- 12, 13, and 14. Collectively, 53 children (46 female and 7 male) participated in the competition. (27 October, 2016)
- On the occasion of World Toilet Day 2016, ENPHO with the support of Oxfam, organized a mass awareness campaign on ‘WASH and Toilet needs’. More than 300 people visited the booth. (19 November, 2016)

- ENPHO with the support of CAWST organized the toilet expo at its office premises, New Baneshwor commemorating the World Toilet Day 2016. Altogether, 123 individuals participated in the expo and orientation session. ( 19 November 2016)
- ENPHO, in collaboration with Impact Marathon Series organized a guided field visit for ten of the philanthropic runners of the Nepal International Marathon. (22 November, 2016)
- ENPHO, to mark 19th National Earthquake Safety Day and in coordination with Oxfam conducted a cycle rally and displayed an exhibition stall. Over 50 individuals turned up with their bicycles to participate in the rally. (15 January, 2017)
- An exhibition was organized at Shankhu in coordination with Lumanti, DEPROSC, Homenet and Oxfam. More than 250 people, including Nepal Army officials, Nepal Police officials, and representatives from various organizations working in the sector of DRR visited the stall.
- ENPHO under BISWASH Project and in collaboration with Panauti Municipality and Gyan Bikas Community Library showcased street dramas and earthquake related video documentary at six major locations of Panauti Municipality. (15 to 19 January, 2017)
- ENPHO, in coordination with Water, Sanitation and Hygiene – Resource Center Network Nepal (WASH-RCNN), conducted “Paani Ra Sharsafai” radio program through 52 FM stations of Ujyaalo Radio Network 90 MHz. Altogether, four episodes were broadcasted. (12, 19 and 26 January 2017)
- ENPHO under the “Emergency Response to Nepal Earthquake” and with the support of Oxfam, organized a Disaster Risk Reduction (DRR) awareness program at two schools of Nagarkot Municipality. Collectively, 51 students (42 female and 9 male) participated in the program. (10 to 17 February, 2017)
- The ten-day event was organized a WASH stall was exhibited during the “Palpa Mahotsab (Palpa Festival)” 2017. More than 5,000 people including, representatives from various government and non-government organizations, political parties, and local communities visited the stalls. (23 February, 2017)
- Paschim Paaila, in coordination with ENPHO, organized an ‘Inter-School Drawing Competition’ at ENPHO Hall, New Baneshwor. Altogether, 11 students participated in the competition. ( 16 March, 2017)
- A Blood Donation Program was organized by Nepal Red Cross Society– Mahabauddha Subchapter, in collaboration with ENPHO, Comfort Co-op, Hamro Cooperative Ltd., Thamel Savings and Loan Cooperative Limited, GUTHI, NIC Asia, End Water Poverty, Prime Commercial Bank Ltd, Water Aid, and IME Cooperative Services Limited. Collectively 414 individuals donated blood, and over 1500 participants attended the program. (21 March, 2017)
- Paschim Paaila, with support from ENPHO, organized a “WASH Mela”, at Patan Durbar Square, Mangalbazar, Lalitpur. More than five hundred people visited the exhibition stall. (22 March, 2017)

- ENPHO with the support of Practical Action Nepal, organized a sharing program on “Water Quality”, at Panauti Municipality. The program was attended by 57 individuals. ( March 24, 2017)
- Paschim Paaila, in collaboration with ENPHO, conducted the 50<sup>th</sup> series of the WASH Forum. Collectively, the forum was attended by 30 participants (19 females and 11 males). (31 March 2017)
- Under the Suaahara-II program, the key life event celebration was conducted on at three different wards of Hansipur. The event was organized in three events where, a total of 16 mothers participated at the event. ( 25 to 26 May, 2017)
- ENPHO in joint collaboration with Guthi, WaterAid Nepal, UKaid, MHM Alliance and Safety Sanitary Pad celebrated World Menstrual Hygiene Day conducting a program at Lagankhel, Laitpur. (28 May, 2017)
- A grand mass event was organized at Layeku, Panauti on the occasion of World Environment Day 2017 and to mark National Sanitation Action Week 2017. More than 2500 general public witnessed the program. (7 to 9 June, 2017)
- The three-day booth campaign, “WASH Awareness Raising Booth Campaign”, under the “Cholera/AWD preparedness in DRR Approach for Urban WASH” project was held at Mangalbazar, Lalitpur. (9 to 11 June, 2017)

# Annex VI: List of IEC Material Published During FY 2016/17

<p><b>Piyush</b></p>	<p><b>World Water Day 2017 - 'Wastewater'</b></p>	<p><b>World Water Day 2017 Blood Donation Program</b></p>	<p><b>Household Water Treatment Options</b></p>
<p><b>Handwashing with Soap</b></p>	<p><b>5F Diagram</b></p>	<p><b>Menstrual Hygiene Management</b></p>	<p><b>Household Solid Waste Management</b></p>
<p><b>Toilet Construction During Emergency Period</b></p>	<p><b>Earthquake Risk Reduction Measures</b></p>	<p><b>Preparedness for Earthquake Safety</b></p>	



Posters



Household Water Treatment Options



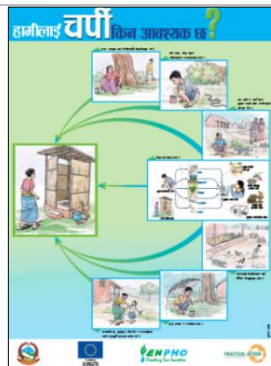
Handwashing with Soap



Critical Times of Handwashing



5F Diagram



Importance of Toilet



Menstrual Hygiene Management



Household Solid Waste Management



Food Hygiene



Toilet Construction During Emergency Period



Earthquake Risk Reduction Measures



Preparedness for Earthquake Safety



Rapid Assessment of Rainwater Quality in Kathmandu Valley

Flex:



Multi Barrier Approach for Safe Drinking Water



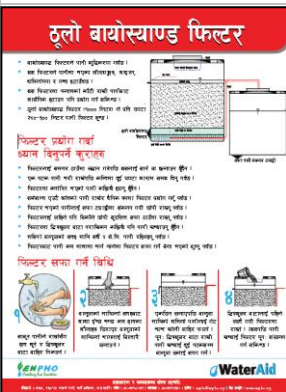
Safe Drinking Water



Household Water Treatment Options



Household Water Treatment Options



Large Biosand Filter



Critical Times of Handwashing



Handwashing with Soap



5F Diagram

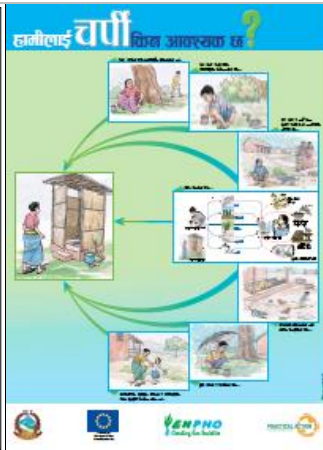




Improved Sanitation and Health



Options for Improved Sanitation



Importance of Toilet



Personal Hygiene

Flex



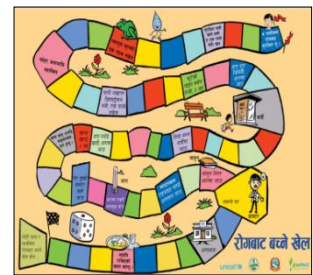
Kitchen Management and Health



SWASTHA Home



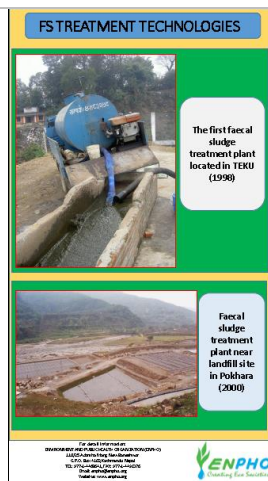
Total Sanitation Indicator



WASH Disease Game



Desludging Equipment



Faecal Sludge Treatment Technologies



**STEP 1**  
LOCATE MANHOLE OF SEPTIC TANK OR PIT LATRINE FOR EMPTYING

**STEP 2**  
ADDING WATER TO LIQUEFY THE THICK SLUDGE GETS OFFER NECESSARY

**STEP 3**  
PUMPING THE FAECAL SLUDGE FROM DIFFERENT CONTAINERS

**STEP 4**  
WASHING THE EQUIPMENT AND HANDS WITH SOAP & WATER OR SOMETHING ONLY WITH WATER

**Faecal Sludge Treatment Plant at Lubhu, Nepal**

Equipment	Quantity
Sludge Separator	4 nos. per area
Sludge Storage	20 nos. 10 m diameter
Storage Tank	1 nos. 10 m dia
Storage Tank	1 nos. 10 m dia
Storage Tank	2 nos. 10 m dia
Storage Tank	1 nos. 10 m dia
Storage Tank	1 nos. 10 m dia
Storage Tank	1 nos. 10 m dia
Storage Tank	1 nos. 10 m dia
Storage Tank	1 nos. 10 m dia
Storage Tank	1 nos. 10 m dia

**Steps of Emptying Septic Tank**

**FSTP at Lubhu, Nepal**

### Hoarding Boards

**मैयाल भूकम्प प्रतिक्रिया परियोजना-२०७५**

संरचनात्मक सुरक्षा (Water, Sanitation and Hygiene)

क्र.सं.	विस्तारण	प्रमाणित खर्च
१	संरचनात्मक	५,८१,०००
२	संरचनात्मक	५,९१,०००
३	संरचनात्मक	५,९१,०००
४	संरचनात्मक	५,९१,०००
५	संरचनात्मक	५,९१,०००

**मैयाल भूकम्प प्रतिक्रिया परियोजना-२०७५**

संरचनात्मक सुरक्षा (Water, Sanitation and Hygiene)

क्र.सं.	विस्तारण	प्रमाणित खर्च
१	संरचनात्मक	५,८१,०००
२	संरचनात्मक	५,९१,०००
३	संरचनात्मक	५,९१,०००
४	संरचनात्मक	५,९१,०००
५	संरचनात्मक	५,९१,०००

**सुरक्षित पिउनेपानी**

पानी नालिया पुर्याउने र भेट्नियसको सफा समसुहानो तरल पुर्याउने।

- पानी नालिया पुर्याउने र भेट्नियसको सफा समसुहानो तरल पुर्याउने।
- पानी नालिया पुर्याउने र भेट्नियसको सफा समसुहानो तरल पुर्याउने।
- पानी नालिया पुर्याउने र भेट्नियसको सफा समसुहानो तरल पुर्याउने।
- पानी नालिया पुर्याउने र भेट्नियसको सफा समसुहानो तरल पुर्याउने।

**भूकम्पको बेला मा विद्यालयमा सुरक्षित स्थानान्तरणका चरणहरू**

1. शिक्षकहरूको निर्देशनमा कक्षाबाट बाहिर निस्कनु।
2. खोला, बजार, भवन, र भवनको अगाडि ननिस्कनु।
3. खोला, बजार, भवन, र भवनको अगाडि ननिस्कनु।
4. खोला, बजार, भवन, र भवनको अगाडि ननिस्कनु।

**Nepal Earthquake Response Project- 2015      Nepal Earthquake Response Project- 2015      Safe Drinking Water      Steps of Safe Evacuation in School During Earthquake**

**Card**

**ENPHO Dashain Card 2073**

**Calendar**

**ENPHO Calendar 2074**

**Note copy**

**मूकम्प पश्चात् चालिने सामाग्रिहरू सहितको भेटपट भोला तयारी अवस्थामा राखौं।**

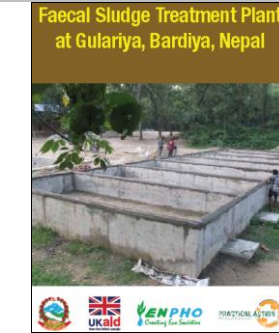
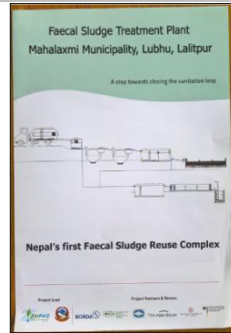
**WASH Recovery Program in Targeted Communities and Schools**



Brochures



Faecal Sludge Treatment Plant at Lubhu, Nepal



Faecal Sludge Treatment Plant at Gulariya, Nepal

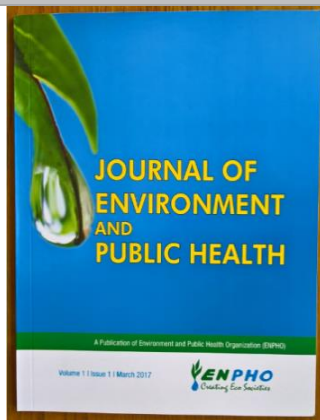


BISWASH project



Training on DEWATS and FSM for Engineers

Journal



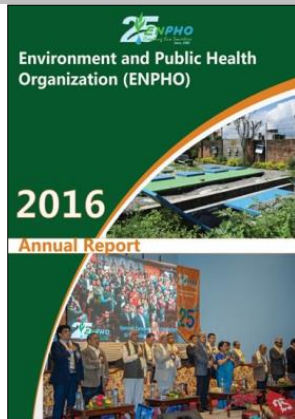
Journal of Environment and Public Health

Special Bulletin

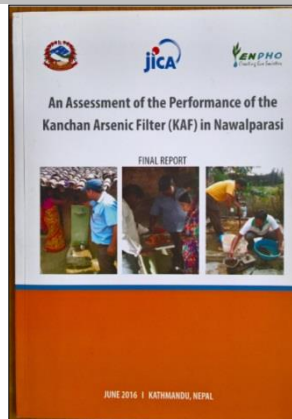


World Toilet Day, 2016

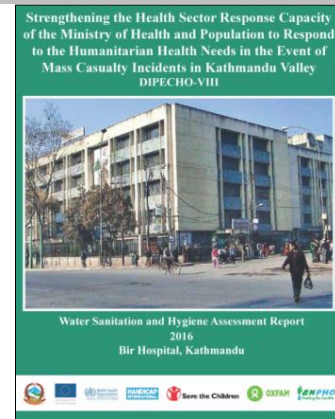
Reports



ENPHO Annual Report, 2016



Assessment of the Performance of the Kanchan Arsenic Filter (KAF) in Nawalparasi (Project Report)

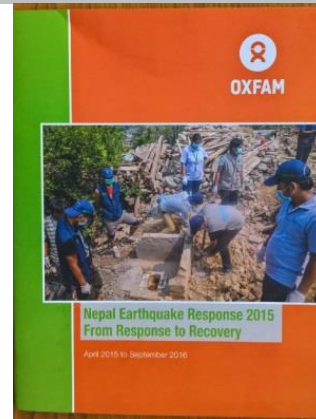


WASH Assessment Report of Bir Hospital

Learning Documents

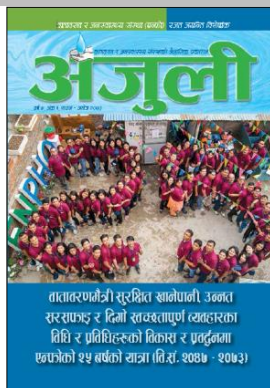


Post Earthquake Support Our School, Bhaktapur District



Nepal Emergency Response 2015 - From Response to Recovery

Bulletins



Anjuli – Edition on 25<sup>th</sup> year of ENPHO (Nepali)



Safa Swastha Gulariya Project (English)



Safa Swastha Gulariya Project

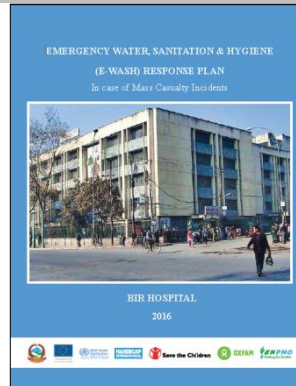


SWASTHA Approach Paper

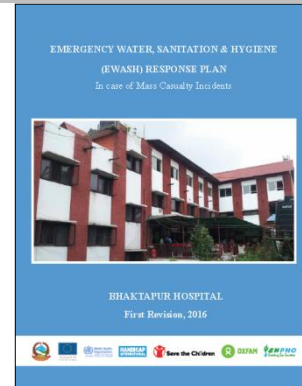
Plans



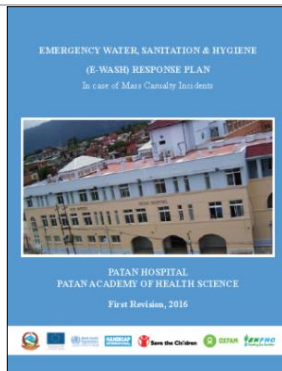
District Disaster Preparedness and Response Plan of Lalitpur District (Nepali)



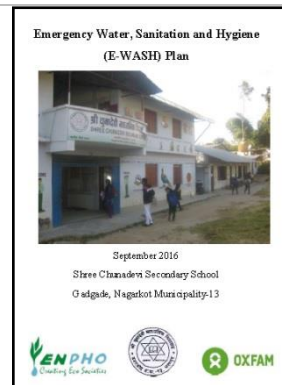
EWASH Response Plan of Bir Hospital



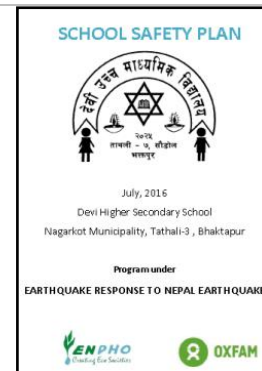
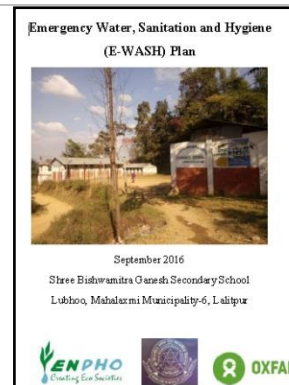
EWASH Response Plan of Bhaktapur Hospital



EWASH Response Plan of Patan Hospital



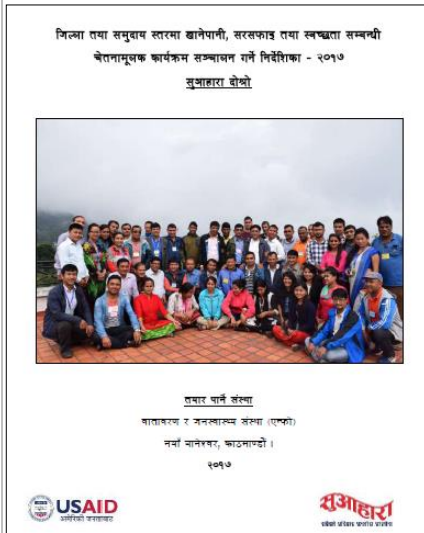
School EWASH Plan of 10 Schools of Mahalaxmi and Nagarkot Municipalities



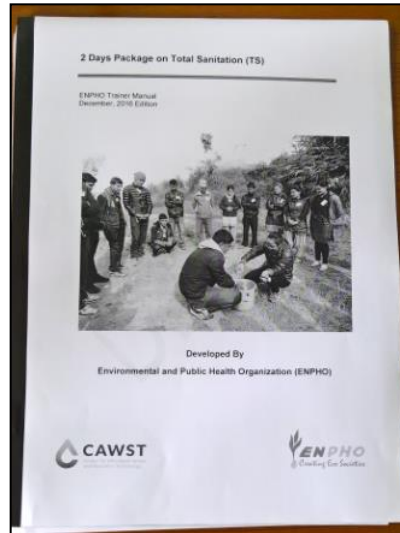
School Safety Plan of 20 Schools of Mahalaxmi and Nagarkot Municipalities



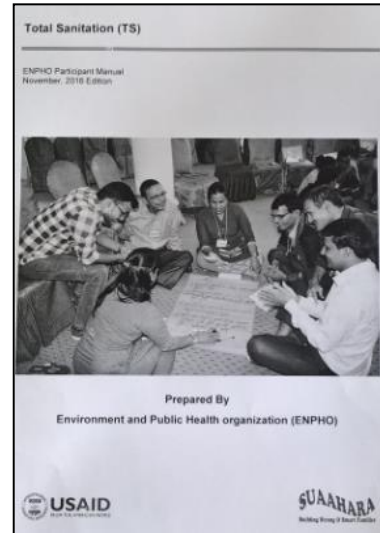
**Manual :**



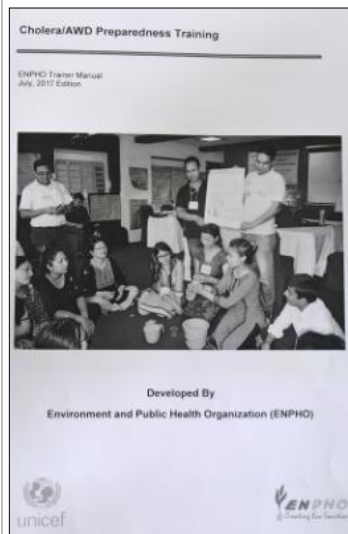
WASH Event Guideline (Nepali)



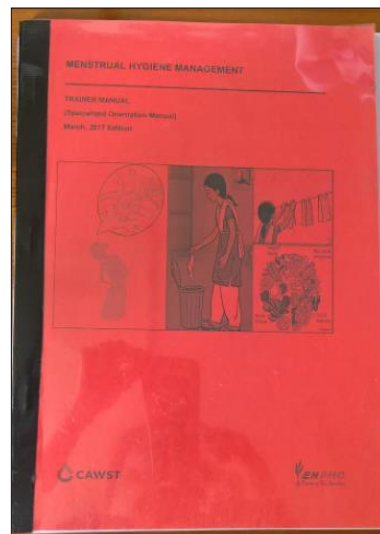
Trainers' Manual on Total Sanitation



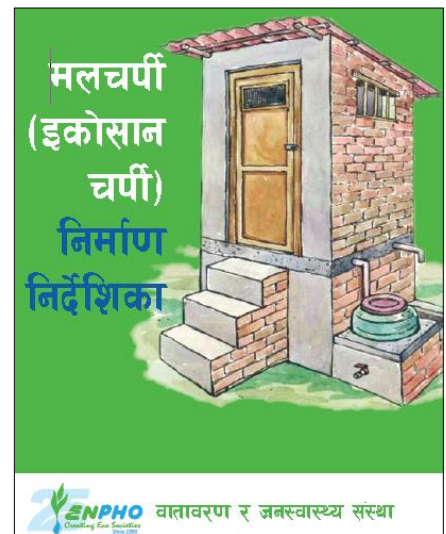
Participants' Manual on Total Sanitation



Trainers' Manual on Cholera Preparedness



Trainers' Manual on Menstrual Hygiene Management



Manual on Construction of Ecosan Toilet



## Annex VI: Visibility Materials of FY 2016\_2017



**Bag**



**Ball Pen**



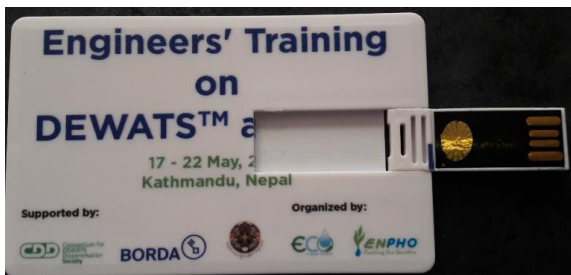
**Bib**



**Jacket**



**Helmet**



**Pen-drive**



**Token of Love**

## Annex VII: Program Participated at National Level (July 2016- July 2017)

### Trainings:

- Ms. Merina Shakya participated in the “Training on WASH governance” organized by ENPHO and Oxfam at Yela Maya Kendra, Patan Dhoka Lalitpur. (24 July, 2016)
- Ms. Merina Shakya, Ms. Merina Maharjan, Ms. Sarmila Gwachha and Ms. Nisha Shrestha participated in the “ToT on MHM” organized by ENPHO and OXFAM at Entrance Café, Kupondole. (28 to 30 July, 2016)
- Mr Nabina K.C., Ms. Isha Dhakal, Ms. Bibha Shah and Mr. Bishnu P. Koirala participated in the “Training on Introduction to water quality testing using ENPHO Water Test Kit” organized by FEDWASUN at Hotal Jugal, Dhulikhel. (29 to 31 July, 2016)
- Ms. Isha Dhakal participated in the “Training on Introduction to water quality testing using ENPHO Water Test Kit” organized by NGO Forum at NGO Forum, Tahachal, Kathmandu. (9 August, 2016)
- Ms. Isha Dhakal participated in the “Training on Introduction to ENPHO water test kit and DelAgua Turbidity Tube” organized by UNICEF and OXFAM at NGO Forum, National Water Supply and Sanitation Training Center, Nagarkot. (10 August, 2016)
- Ms. Isha Dhakal participated in the “Training on WASH awareness campaign for Cholera Prevention” organized by DPHO and supported by UNICEF at VDC Health Post, Satungal. (22 August, 2016)
- Ms. Pramina Nakarmi participated in the “Water quality testing using ENPHO water test kit” organized by OXFAM and UNICEF at National Water Supply and Sanitation Training Center, Nagarkot. (1 September, 2016)
- Ms. Merina Maharjan participated in the “3 days capacity building on Resilient WASH- Integrating Disaster Risk Reduction training” organized by WaterAid Nepal at Dhulikhel Lodge Resort, Dhulikhel. (8 to 10 September, 2016)
- Ms. Nisha Shrestha participated in the “TOT on Earthquake Resistant Building Construction” organized by NSET at Dolakha, Simpani. (15 to 21 September, 2016)
- Ms. Bhintuna Shrestha participated in the “Contribution to Change (CTC) Evaluation Orientation” organized by Oxfam at Oxfam Country Office, Jwalakhel. (4 and 5 November, 2016)
- Ms. Srijana Karki participated in the training on “Care Taker for WSUC” organized by SWASH at Nagarkot. (21 and 22 November 2016)

- Ms. Bhintuna Shrestha participated in the “Training on Documenting Better (MAC Workshop)” organized by Oxfam at Hotel Yellow Pagado, Kantipath. (24 and 25 November, 2016)
- Ms. Sarmila Gwachha participated in the “Training on Mainstreaming of Disaster Risk Management (DRM) into Local Development Process and Formulation of Local Disaster Risk Management Plan” organized by Natures Conservation at Natures Conservation Pvt. Ltd. at Tripureswor, Kathmandu. (27 to 30 November, 2016)
- Ms. Pramina Nakarmi, Ms. Nabina K.C., Ms. Alisha Shrestha, Mr. Sajal Shrestha, Ms. Ruby Joshi, Ms. Bibha Shah, Mr. Yuresh Maharjan, Ms. Isha Dhakal participated in the “Excel Training for In-house staff” organized by ENPHO at ENHO Hall. (25 October and 7 December, 2016)
- Ms. Srijana Karki participated in “Water Safety Plan Training for two Water Supply Users Committees” organized by SWASH at Nagarkot. (25 to 26 October 2016 and 13 to 14 December 2016)
- Ms. Isha Dhakal, Ms. Ambika Khanal and Ms. Alisha Shrestha participated in the “Training on Water quality testing using ENPHO water test kit” organized by Care Nepal at Hotel Araniko, Dhulikhel, Kavre. (5 January, 2017)
- Ms. Bhintuna Shrestha participated in the “Reporting on Policy Advocacy and Influencing” organized by Oxfam at Park Village, Budhanilkantha, Kathmandu. (30 to 31 January, 2017)
- Ms. Nabina K.C and Mr. Binod Bhandari participated in the “Training on Water quality” organized by Red Cross Gorkha at Hotel Crown Resort, Laxmi Bazar, Gorkha. (31 January, 2017)
- Ms. Nisha Shrestha participated in the “Seismic Repair and Retrofitting training” organized by Oxfam at Greenwich Hotel, Laitpur. (February, 2017)
- Ms. Isha Dhakal, Ms. Nabina K.C., Ms. Ambika Khanal and Mr. Binod Bhandari participated in the “Training on Water quality, treatment methods, and water quality testing using Coliform P/A, FRC and Turbidity Tube along with training on mass chlorination preparation” organized by BISWASH/Eco Concern at Panauti Municipality, Kavre. (22 February, 2017; 1 March, 2017; 9 March, 2017; 15 March, 2017)

#### **Workshop:**

- Ms. Merina Maharjan participated on the “Workshop on WASH governance” organized by Oxfam, at Dhokaima Café, Patandhoka. (1 and 2 August, 2016)
- Ms. Pramina Nakarmi, Ms. Alisha Shrestha, Mr. Sajal Shrestha, Ms. Ruby Joshi, Ms. Isha Dhakal participated in the “Safe and optimum use of Waste Water as Valuable Resources and a panel discussion on the topic; Water related SDGs: Status and Implementation Challenges ” organized by ENPHO at ENHO Hall. (25 October and 7 December, 2016)
- Mr. Bipin Dangol participated and gave presentation in Workshop on Arsenic Mitigation organized by DWSS, JICA and ENPHO at DWSS, Kathmandu. (20 December 2016)

- Ms. Srijana Shakya, Ms. Merina Maharjan and Mr. Kedar Koirala participated on the “Equality and Non-Discrimination (EQND) workshop” organized by UN-HABITAT, at Hotel Greenwich, Kupondole. (5 and 6 January, 2017)
- Ms. Srijana Shakya and Ms. Reshma Shrestha participated in the “MHM Policy Consultation workshop” organized by Ministry of Water Supply and Sanitation (MOWSS) and Water Supply and Sanitation Collaborative Council (WSSCC) at National Water Supply and Sanitation Training Center, Nagarkot. (9 and 10 February, 2017)
- Ms. Bhintuna Shrestha participated in the “GESI and MAC policy workshop” organized by WHR/Oxfam at Nepal House, Baluwatar, and Kathmandu. (9 and 10 February, 2017)
- Ritu Sharma participated on the “Assessment of water availability and water use in the post-earthquake context in the Melamchi area” organized by HELVETAS Swiss Intercooperation, Nepal, at Summit Hotel, Kupondole Height. (13 February, 2017)
- Ms. Isha Dhakal and Mr. Binod Bhandari participated in the “Orientation for water sample collection” organized by BISWASH Project/Eco-Concern at ENPHO Field Office, Panauti. (19 February, 2017)
- Ms. Padmaja Shrestha and Ms. Isha Dhakal participated in the “Workshop on water quality monitoring and identifying critical needs in rural area of Nepal” organized by Helvetas/EAWAG at Entrance Café, Bakhundole, Lalitpur. (19 February, 2017)
- Mr. Roshan Chaulagain participated on the Mid Western Conference on "SECTOR ALIGNMENT FOR WASH SUSTAINABILITY" organized by Regional Monitoring & Supervision Office and R-WASHCC, Mid-Western Region at Birendranagar, Surkhet. (23 and 24 February, 2017)
- Mr. Bipin Dangol and Mr. Rajendra Shrestha participated in Workshop on “Safe and Optimum Use of Waste Water: As a Valuable Resources” organized by SOPHEN at Hotel Shankar, Kathmandu. (22<sup>nd</sup> March 2017)
- Ms. Kriti Bajracharya, Ms. Ritu Sharma and Ms. Lasata Manandhar participated on the “Citizen Reporting Training Workshop” organized by Guthi, at Ambe Complex, Teku. (13 to 17 July, 2017)
- Mr. Niraj Shrestha participated in "Retrofitting Techniques and Correction/Exceptional Manual" organized by Government of Nepal, Ministry of Urban Development, Central level Project Implementation Unit at Union House, Anamnagar . (21 and 23 July, 2017)

## Annex VIII: Program Participated at International Level (July 2016- July 2017)

- Mr. Bipin Dangol and Mr. Rajendra Shrestha participated in Annual BORDA BNS Partner Meeting organized by BORDA in Pondicherry, India. (16 February to 17 February 2017)
- Mr. Bipin Dangol, Mr. Rajendra Shrestha and Ms. Reetu Rajbhandari participated in 4<sup>th</sup> International Feecal Sludge Management Conference in Chennai, India. (20 February to 25 February 2017)
- Mr. Bipin Dangol participated in Technical Meeting on “Water scarcity, Pollution and Vector Disease in Urban Areas” organized by IAEA in Vienna, Australia. (6 to 8 May 2017)
- Mr. Jagam Shrestha and Mr. Binod Bhandari under 4S project, participated in Basic Assessments of 10 Small Scale Sanitation Systems of Pakistan facilitated by MUHAMMAD AMEEN KERYO ENVIRONMENTAL SERVICES PRIVATE LIMITED in Karachi, Pakistan. (13 May to 23 May 2017)
- Mr. Bipin Dangol and Dr. Laxman Joshi (Board Member) participated in Social Impact Leadership Program Module I organized by DASRA in Mumbai, India. (4 to 7 June 2017)
- Ms. Rosy Singh participated in Advanced International Training Programme jointly organized by NIRAS Sweden AB and WaterAid Sweden with the funding support from Swedish International Development Cooperation Agency (Sida) in Stockholm, Sweden. (27 May to 17 June 2017)
- Mr. Rajendra Shrestha participated in AGUASAN Workshop on "Circular economy – transforming waste into resources" organized by SECON in Spiez, Switzerland. (26 to 30 June 2017)
- Mr. Rajendra Shrestha participated in South Asia Regional Workshop on Future Earth organized by DIUECHA Centre for Climate Change in Bengaluru, India. (20 to 21 July 2017)



## Annex IX: Financial Audit Report



3<sup>rd</sup> floor, Nepal Bank Building  
Dillibazar, Kathmandu, Nepal  
Phone : 01-4420903  
E-mail: keshab@kpn.com.np

### INDEPENDENT AUDITOR'S REPORT

#### The Members of Environment and Public Health Organization

We have audited the accompanying financial statements of Environment and Public Health Organization (ENPHO) which comprises the Balance Sheet as on 31 Asadh 2074 Income and Expenditure, Receipt and Payment Statement for the period 1 Shrawan 2073 to 31 Asadh 2074 and a Summary of Significant Accounting Policies and Explanatory Notes.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with generally accepted accounting principles. This responsibility includes: designing, implementing and maintaining internal control relevant to the preparation and presentation of financial statements that are free from material misstatement, whether due to fraud or error, selecting and applying appropriate accounting policies; and making accounting estimate that are reasonable in the circumstances.

#### Auditor's Responsibility


Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with Nepal Standards on Auditing. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our professional judgment, including the assessments of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, we consider the internal control relevant to ENPHO's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of ENPHO's internal control. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of accounting estimates made by the management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### Opinion

In our opinion, the accompanying Balance Sheet as on 31 Asadh 2074 Income and Expenditure, Receipt and Payment Statement for the period 1 Shrawan 2073 to 31 Asadh 2074 and a Summary of Significant Accounting Policies and Explanatory Notes of Environment and Public Health Organization (ENPHO) has been properly extracted, in all material aspects, from books and records of ENPHO. The Financial Statement, read in conjunction with Significant Accounting Policies and Explanatory Notes appended thereon, presents a true and fair view in accordance with Nepal Accounting Standards or relevant practices and comply with generally accepted Accounting Principles.

  
 CA. Keshab Prasad Neupane  
 For K.P.N. & Associates  
 Chartered Accountants

Date: 26 Bhadra 2074  
Place: Kathmandu, Nepal





3<sup>rd</sup> floor, Nepal Bank Building  
Dillibazar, Kathmandu, Nepal  
Phone : 01-4420903  
E-mail: keshab@kpn.com.np

26 Bhadra 2074 (11 September, 2017)

To: The Board of Director  
Environment and Public Health Organization (ENPHO)  
Thapagaun, Kathmandu

Through: Bipin Dangol  
Executive Director

**Transmittal Letter** Statutory Audit of ENPHO for the fiscal year 2073/74.

Dear Sir;

We are pleased to submit our report on the results of statutory audit for the fiscal year 2073/74.

#### A. Background

Established in 1990, Environment and Public Health Organization (ENPHO) is scientific, non-governmental organization working in the sector of water, sanitation, environment and public health. The vision of ENPHO is to create eco-societies and the mission is to develop and promote appropriate technologies to enable societies become eco-friendly. ENPHO has been collaborating with various agencies, I/NGOs, CBOs and government agencies to implement various projects and to conduct research and develop appropriate technologies. ENPHO has a well-equipped, accredited research laboratory that provides water quality testing services. ENPHO is one of the prominent agencies working in the sector of water, sanitation and environment in Nepal.

ENPHO is governed by a General Assembly comprising of 11 board members out of which 10 members are executing and 1 member has resigned, 107 general members and 275 staff members.

#### B. Audit Objectives and Scope of Work

The objectives of this financial audit were to:

- i. Express an opinion, in form of audit report, whether the financial statements comprising of Balance Sheet as on 31 Asadh 2074 (15 July, 2017), Statement of Income & Expenditure and Fund Accountability Statement for the period 01 Shrawan, 2073 to 31 Asadh, 2074 (corresponding to 16 July, 2016 to 15 July, 2017), presents fairly in all material respects, project revenues and costs incurred for the period audited and balances as on 31 Asadh 2074.
- ii. Provide an overall assessment of the operational and internal control systems including program progress and delivery that are in place for the management of project so that related transactions are processed in accordance with donor's and ENPHO's policies and procedures, contract document and approved budget for the achievement of different project objectives.



- iii. Provide the monetary value of the Net Financial Impact of the qualification in audit opinion on each of the financial statements referred above.

Our audit was conducted in accordance with Nepal Standards on Auditing and, accordingly, included such tests, as we considered appropriate in order to satisfy our objectives.

The scope of our work included the following general procedures:

- i. Holding meetings with ENPHO officials;
- ii. Review of the contract documents entered with different donors;
- iii. Obtaining an understanding of the accounting, administrative and internal control systems of ENPHO;
- iv. Review of contract, pertinent documents, minutes of program management, applicable rules and regulations and work plan/budget and revisions thereof for the period under audit;
- v. Devising and performing appropriate tests on the transactions presented in the Fund Accountability Statement and Statement of Income and Expenditures;
- vi. Verify the arithmetic accuracy of the income & expenditures and its reconciliation from disbursing source;
- vii. Assessment of the overall management of different projects implemented by ENPHO, which includes project management, monitoring and supervision by reviewing the work plan, progress reports, project resources, project budget, project expenditure and project delivery;
- viii. Assessment and effectiveness of the ENPHO's internal control procedures and systems related to Human Resources, Finance, Procurement, Asset Management, Cash & Bank Management, General Administration and Information System;
- ix. Testing the effectiveness of control system applied by ENPHO's management to ensure compliance with applicable laws, regulations and terms of agreement and
- x. Follow up of previous audit recommendations and its resolutions.

### C. Audit Results

Our independent auditor's report dated Bhadra 26, 2074 expressing our opinion on the financial statements has been issued separately. The following are the results of our audit:

#### i. Financial Statements

In our opinion, the financial statements give a true and fair view of the financial position of ENPHO as on 31 Asadh, 2074 and of the results of its financial performance for the year then ended in accordance with Generally Accepted Accounting Principles and in compliance with the prevailing laws and terms of agreement with donors.





ii. **System of Internal Control**

Our study and evaluation of the internal control system, during the course of our audit, did not disclose any material discrepancies that we considered as a reportable condition. The matters noted by us, which were not of material nature, have been reported in our management letter dated Bhadra 26, 2074.

D. **Status of prior year's audit recommendation**

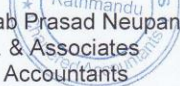

We have performed follow up of prior year's audit recommendation as Management Letter was issued to ENPHO during the previous year audit.

E. **Management Letter and Management Response**

We have issued our management letter on Bhadra 26, 2074 incorporating our findings for the improvement by the management. The management of ENPHO has generally agreed to our findings and recommendations on the issues set out in our management letter. Management responses are incorporated at the appropriate places.

F. **Acknowledgement**

We would like to record our appreciation for the cooperation extended by the management and all the concerned officials of ENPHO in completing our audit.



CA. Keshab Prasad Neupane  
For K.P.N. & Associates  
Chartered Accountants  
Place: Kathmandu, Nepal

Environment and Public Health Organization  
 New Baneshwor, Kathmandu  
 Balance Sheet  
 As on 31 Ashad 2074  
 As on 15 July 2017

Particulars	Schedule	Amount	Amount
		2073/74	2072/73
<b>A. Sources of Fund</b>			
Capital Fund Balance		1,070,081.30	1,070,081.30
Revaluation Surplus Fund		6,158,757.12	6,158,757.12
Surplus Fund	1	20,126,061.86	20,305,159.66
<b>Total Sources of Fund</b>		<b>27,354,900.28</b>	<b>27,533,998.08</b>
<b>Applications of Fund</b>			
<b>B. Fixed Assets</b>	2	11,102,176.07	10,776,419.74
<b>C. Current Assets, Loans &amp; Advances</b>			
Program Advance and receivables	3	4,232,284.06	4,385,793.59
Other Advance and Deposit	4	4,728,002.59	5,411,274.46
Project Advances/Receivables of Other program	5	6,450,338.93	11,016,821.06
Cash & Bank Balance of Project Accounts	6	19,596,613.80	17,810,228.01
Cash & Bank Balance of ENPHO	7	13,638,789.65	15,153,462.51
		<b>48,646,029.03</b>	<b>53,777,579.63</b>
<b>D. Less: Current Liabilities &amp; Provisions</b>			
Liabilities for on Going Other Programs	8	21,829,348.57	23,068,161.18
Sundry Creditors	9	7,060,806.33	8,820,956.13
Liabilities for on Going Programs of Donors (Fund)	10	3,503,149.92	5,130,883.98
		<b>32,393,304.82</b>	<b>37,020,001.29</b>
<b>E. Working Capital ( C-D )</b>		<b>16,252,724.21</b>	<b>16,757,578.34</b>
<b>Total Application of Fund (B+E )</b>		<b>27,354,900.28</b>	<b>27,533,998.08</b>

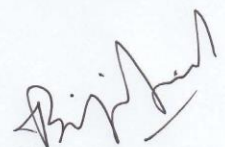
Notes to Accounts

21

Schedules 1 to 21 form an integral part of this statement



Niranjan Pradhan  
Admin & Finance Director



Bipin Dangol  
Executive Director

As per our report of even date



Pratap K. Acharya  
Treasurer



Ms. Urmila Joshi  
Chairperson





CA. Keshab Prasad Neupane  
K.P.N & Associates  
Chartered Accountants

Date: 26 Bhadra, 2074  
Place: Kathmandu, Nepal

**Environment and Public Health Organization**  
**New Baneshwor, Kathmandu**  
**Income Statement**  
**for the Year ended 31 Ashad 2074**  
**for the Year ended 15 July 2017**


Particulars	Schedule	Amount 2073/74	Amount 2072/73
<b>Income</b>			
Remittances From Donors	11	1,149,936.70	1,435,513.54
Remittances From other Project Activities	12	206,426,196.28	236,771,888.66
Income from Activities	13	24,747,040.28	35,884,913.97
Income from Other Activities	14	56,272.79	64,133.59
		<b>232,379,446.05</b>	<b>274,156,449.76</b>
<b>Expenditure</b>			
Program Cost	15	237,219.90	2,020,105.71
Program Cost of Other Project activities	16	208,023,752.80	238,849,731.54
Institutional / Administrative Cost	17	14,075,066.82	11,564,221.34
Repair & Maintenance	18	61,799.00	53,802.77
Lab Activity Expenses	19	3,624,107.56	18,846,286.66
Expenditure Incurred to Projects	20	4,482,117.89	933,740.51
Depreciation	2	1,454,263.25	1,471,131.54
		<b>231,958,327.22</b>	<b>273,739,020.07</b>
<b>Excess of Income over Expenditure</b>		<b>421,118.83</b>	<b>417,429.69</b>

Schedules 1 to 21 form an integral part of this statement

  
 .....  
 Niranjan Pradhan  
 Admin & Finance Director


  
 .....  
 Bipin Dangol  
 Executive Director


As per our report of even date

  
 .....  
 Pratap K. Acharya  
 Treasurer

  
 .....  
 Ms. Urmila Joshi  
 Chairperson



  
 .....  
 CA. Keshab Prasad Neupane  
 K.P.N & Associates  
 Chartered Accountants



Date: 26 Bhadra, 2074  
 Place: Kathmandu, Nepal



**Environment and Public Health Organization  
New Baneshwor, Kathmandu  
Receipt and Payment Statement  
for the year ended 31 Ashad 2074  
for the year ended 15 July 2017**

Receipt	Schedule	Amount 2073/74	Amount 2072/73	Payment	Schedule	Amount 2073/74	Amount 2072/73
Op. Cash & Bank Balance (ENPHO)	7	15,153,462.51	9,890,306.13	Op. Liability of Donors	10	5,130,883.98	6,223,279.87
Op. Cash & Bank ( Project Accs.)	6	17,810,228.01	42,767,648.85	Op. Liability of other Program	8	23,068,161.18	46,313,939.85
Opening Staff Advances		-		Op. Sundry Creditors	9	8,820,956.13	13,138,790.72
Op. Program Advances & Receivables	3	4,385,793.59	7,279,530.72	Lab analysis & Production Expenses.	19	3,829,779.11	18,846,286.66
Op. Project Adv. Receivable	5	11,016,821.06	11,318,888.18	Purchase of Non-Expendable Equipment	2	1,780,019.59	576,324.69
Op. Other Advance and Deposit	4	5,411,274.46	9,834,853.36	Administrative Expenses	17	14,075,066.82	11,564,221.34
Fund Received from Projects	11	1,149,936.70	1,435,513.54	Repair & Maintenance	18	61,799.00	53,802.77
Fund from Other Project Activities	12	206,426,196.28	236,771,888.66	Project Expenses	15	237,219.90	2,020,105.71
Income From Activities	13	24,747,040.28	35,884,913.97	Other Project Activities Exps.	16	208,023,752.80	238,849,731.54
Interest earned From Other Activities	14	56,272.79	64,133.59	Expenditure Incurred to Project	20	4,482,117.89	933,740.51
Disposal of Non Expendable Equipment	2	-	30,125.00	Program Advance & Receivables	3	4,232,284.06	4,385,793.59
Closing Sundry Creditors	9	7,060,806.33	8,820,956.13	Other Receivable & Deposit	4	4,728,002.59	5,411,274.46
Closing Liability for Other Program	8	21,829,348.57	23,068,161.18	Project Advance Receivable of other	5	6,450,338.93	11,016,821.06
Closing Liability for Ongoing Program (Fund)	10	3,503,149.92	5,130,883.98	Cash & Bank Balances / ENPHO	7	13,638,789.65	15,153,462.51
				Cash & Bank Balances (Project)	6	19,596,613.80	17,810,228.01
				Tax Adjustment 2069/070 to 2072/073	1B	394,545.07	
<b>Total</b>		<b>318,550,330.50</b>	<b>392,297,803.29</b>	<b>Total</b>		<b>318,550,330.50</b>	<b>392,297,803.29</b>

Notes to Account: Schedules 1 to 21 form an integral part of this statement

Niranjan Pradhan  
Admin & Finance Director

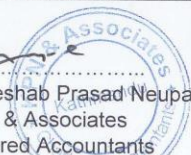
Bipin Dangol  
Executive Director

Pratap K. Acharya  
Treasurer

Ms. Urmila Joshi  
Chairperson



As per our report of even date  
  
CA. Keshab Prasad Neupane  
K.P.N & Associates  
Chartered Accountants



Date: 26 Bhadra, 2074  
Place: Kathmandu, Nepal



Environment and Public Health Organization (ENPHO)  
 New Baneshwor, Kathmandu  
 For the period ended  
 31 Ashad, 2074

Fixed Assets / Non-Expendable  
 2073/74  
 15 July 2017

Schedule 2

Particulars	Gross Block			Depreciation			Net Block				
	Historical cost	Addition during the year	Disposal during the year	Total value as of 31 Ashad 2074	Accumulated Dep. upto 31 Ashadh 2073	Net Book Value	Rate	As at 2074	Total Accu. Depreciation as at 31 Ashadh 2074	As at 31 Ashadh 2074	As at 31 Ashadh 2073
Land 1-02-0-0	2,182,500.00			2,182,500.00		2,182,500.00	-	-		2,182,500.00	2,182,500.00
Building 6172 sq. ft	6,053,796.54	426,656.18		6,480,452.72	2,946,702.78	3,533,749.94	5%	171,354.30	3,118,057.07	3,362,395.65	3,107,093.76
Office Furniture (Wooden & Steel)	2,712,271.70	137,035.00		2,849,306.70	1,921,675.84	927,630.86	20%	171,918.43	2,093,594.27	755,712.43	790,595.86
Office Equipment:	3,995,891.32	1,008,828.41		5,004,719.73	3,111,154.57	1,893,565.16	20%	326,691.85	3,437,846.42	1,566,873.31	884,736.75
a) Computer, Printer, Laptop FAX											
b) Multimedia, Fax Mac											
Computer & Printer-Lab	411,710.59			411,710.59	283,989.43	127,721.16	20%	25,544.23	309,533.66	102,176.93	127,721.16
Lab Equipment- (AAS ,GC etc.)	13,956,359.64			13,956,359.64	11,185,152.72	2,771,206.92	20%	554,241.38	11,739,394.10	2,216,965.54	2,771,206.92
Loose tools	13,064.00			13,064.00	11,310.58	1,753.42	20%	350.68	11,661.26	1,402.74	1,753.42
Vehicles (include Motor)	4,747,261.50			4,747,261.50	4,314,503.55	432,757.95	20%	86,551.59	4,401,055.14	346,206.36	432,757.95
Software	651,253.00	207,500.00		858,753.00	279,392.68	579,360.32	20%	96,372.06	375,764.75	482,988.25	371,860.32
Solar Pannel	98,000.00			98,000.00	35,280.00	62,720.00	20%	12,544.00	47,824.00	50,176.00	62,720.00
Miscellaneous	95,341.25			95,341.25	51,867.66	43,473.59	20%	8,694.72	60,562.38	34,778.87	43,473.59
<b>Total</b>	<b>34,917,449.54</b>	<b>1,780,019.59</b>	<b>-</b>	<b>36,697,469.13</b>	<b>24,141,029.80</b>	<b>12,556,439.33</b>		<b>1,454,263.25</b>	<b>25,595,293.06</b>	<b>11,102,176.07</b>	<b>10,776,419.74</b>

*Handwritten signatures and initials*



## Annex X: Proposed Budget for 2074/75

### ENVIRONMENT & PUBLIC HEALTH ORGANIZATION 2074/075

S.N.	Administrative Income ( Projected Income 2074/75 )	Amount Rs.
1	Miscellaneous Income/Surplus from completed project	1,500,000.00
2	Overhead from Different Donor	3,300,000.00
3	Other Income	1,000,000.00
4	Administration Support Cost / Contribution from Projects	7,500,000.00
<b>TOTAL INCOMES</b>		<b>13,300,000.00</b>
S.N.	Project Income	Amount Rs.
1	Ongoing projects	204,850,000.00
2	Pipe line projects	7,300,000.00
<b>Total</b>		<b>212,150,000.00</b>

**Environment and Public Health Organization**  
**New Baneshwor**  
**Budget for the Financial Year 2074/075**

**Administrative Cost ( Projected Expenses 2074/075 )**

Particulars	Projected Expenses 2074/075	Actual Expenses 2073/074
Advertisement & Publication	75,000.00	96,060.00
Audit Fee	110,000.00	110,000.00
Award Expenses	100,000.00	10,000.00
Bank charges & Commission	10,000.00	3,281.43
Books and Periodicals	10,000.00	4,975.00
Communication Charges (Telephone, E-mail, Internet, Postage etc.)	100,000.00	16,659.62
Consultant	150,000.00	296,000.00
Dashai Expenses	40,000.00	23,738.00
ENPHO Contribution	800,000.00	3,393,984.10
Exhibition Expenses	25,000.00	20,000.00
Exchange Gain Loss	-	912,387.83
Extra Working Allowance	25,000.00	19,253.75
Fees / Renewal	90,000.00	76,079.25
Fuel Expenses	25,000.00	10,340.00
General Assembly Expenses	80,000.00	100,947.00
Insurance	300,000.00	374,664.88
Internal Audit	56,500.00	56,500.00
Low Value Assets	100,000.00	102,391.88
Meeting Expenses (Board )	150,000.00	107,544.40
Office Running Cost	50,000.00	30,133.52
Surkhet Office Operation Expenses	100,000.00	195,720.24
Office Rent Expenses	150,000.00	232,356.89

Printing & Stationeries	125,000.00	178,976.81
Per Diem	20,000.00	16,200.00
Project Proposal Development	100,000.00	16,995.10
Refreshment (Staff Welfare Exps)	100,000.00	89,018.17
Retreat Expenses	200,000.00	-
Research Expenses	200,000.00	19,500.00
Flagship Projects Monitoring	150,000.00	-
Staffs Capacity Building Expenses	300,000.00	150,990.00
Salary Expenses	7,500,000.00	6,094,597.53
Security Expenses	70,000.00	-
Training Expenses	200,000.00	19,034.00
Transportation & Conveyance	1,000,000.00	1,175,749.03
Utilities	50,000.00	45,147.49
Web Site Updated Expenses	50,000.00	-
World Water Day and Toilet Day Expenses	100,000.00	75,840.50
<b>Total</b>	<b>12,711,500.00</b>	<b>14,075,066.42</b>

### Repair & Maintenance

Particulars	Projected Expenses 2074/075	Actual Expenses 2073/074
Office Equipment	50,000.00	23,055.00
Building	100,000.00	24,470.00
Furniture	30,000.00	-
Wetland	50,000.00	3,535.00
Computer Repair & Maintenance	75,000.00	904.00
Bike	15,000.00	9,835.00
<b>Total</b>	<b>320,000.00</b>	<b>61,799.00</b>







**ekhabaronline** 905805 IN

22 December 2016 | विविध | 10:11 AM

**जावरकोटमा पूर्ण सरसफाईयुक्त अभियानको त्रिजना पाउने**

११ हजार जनमानस | काठमाडौं, २०१७ | १२:११ PM | १३ पृष्ठा पढियो

काठमाडौं: काठमाडौं उपत्यका क्षेत्रको पूर्ण सरसफाईयुक्त अभियानको त्रिजना पाउने भएको छ । त्रिजनाको शुभ विचारणा र योजनाको तालिमको रूपमा काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ ।

शुभारंभ (विश्व स्वास्थ्य संस्थाको सहयोगमा) काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ । त्रिजनाको शुभ विचारणा र योजनाको तालिमको रूपमा काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ ।

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**प्रभातफेरी** PRABHATPHERI WEEKLY साप्ताहिक

प्रभातफेरी साप्ताहिक

**भैँचालो आयो भैँचालो आयो**

काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ । त्रिजनाको शुभ विचारणा र योजनाको तालिमको रूपमा काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ ।

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२०१७, ११, १० गते विचारणा

**पानी दिवसमा विविध कार्यक्रम**

WORLD WATER DAY

१० मार्च २०१७

काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ । त्रिजनाको शुभ विचारणा र योजनाको तालिमको रूपमा काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ ।

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महोदय, काठमाडौं

**गोरक्ष** राधिका दैनिक

www.gorakshadaily.com

१२ मार्च २०१७

**सरसफाई तथा स्वच्छता तालिम**

विगतमा, २० जेठ । स्वास्थ्य स्वयंसेविकाहरूको सांगी, छात्रोपानी, सरसफाई तथा स्वच्छता अभियानको त्रिजना पाउने भएको छ । त्रिजनाको शुभ विचारणा र योजनाको तालिमको रूपमा काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ ।

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**खुला दिसामुक्त अभियानमा त्रिजना**

काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ । त्रिजनाको शुभ विचारणा र योजनाको तालिमको रूपमा काठमाडौं उपत्यका क्षेत्रको त्रिजना पाउने भएको छ ।

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**HamroSagarmatha**

कपिलवस्तुमा खुला दिसामुक्त अभियानमा त्रिजना

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## Acronyms

ASN	Alternative Sanitary Napkin
AWD	Acute Water Diarrhoea
BiFEAN	Biosand Filter Entrepreneur Association Nepal
BSF - PI	Biosand Filter Project Implementation
BSF TECH	Biosand Filter Construction for Technician
CAC	Citizen Awareness Centre
CBDP	Community Based Disaster Preparedness
CBDRM	Community Based Disaster Risk Management
CBDRR	Community Based Disaster Risk Reduction
CDMC	Community Disaster Management Committee
CHP	Community Health Promotion
CS Filter	Colloidal Silver Filter
DESWAM	Decentralized Solid Waste Management
DEWATS	Decentralized Waste Water Treatment System
DEWT	Delivery Effective WASH Training
DHO	District Health Office
DPHO	District Public Health Office
DRM	Disaster Risk Management
DRR	Disaster Risk Reduction
D-WASH-CC	District WASH Coordination Committee
ECA	Extra-Curricular Activities
ECOSAN	Ecological Sanitation
EM Solution	Effective Micro-organism Solution
ENPHI	Environment and Public Health Institute
FCHV	Female Community Health Volunteer
FEITS	Financial, Institutional, Environment, Technological, Social
FSM	Faecal Sludge Management
FSTP	Faecal Sludge Treatment Plant
FT	Focal Teacher
GoN	Government of Nepal
GSP	Global Positioning System
HPCIDBC	High Powered Committee for Integrated Development of the Bagmati Civilization
HM	Head Master
HVCA	Hazard Vulnerability and Capacity Assessment
HWTSS	Household Water Treatment and Safe Storage
ICS	Improved Cooking Stove
JTA	Junior Technical Assistance
KUKL/PID	Kathmandu Upatyaka Khanepani Limited Project Implementation

	Directorate
LDMC	Local Disaster Management Committee
LDRMP	Local Disaster Risk Management Plan
LGCDP	Local Government Planning Processes
LMC	Lalitpur Metropolitan City
LSI	Langelier Saturation index
MHM	Menstrual Hygiene Management
NDWQS	Nepal Drinking Water Quality Standards
NGO	Non-Governmental Organization
ODF	Open Defecation Free
OMWSS	Operation and Management for Water Supply Scheme
O&M	Operation and Maintenance
PCMA	Pre-Crisis Management Market Analysis
PPP	Public Private Partnership
PTA	Parent Teacher Association
RTF	Roof Top Farming
RTI	Ready to Install
SMC	School Management Committee
SODIS	Solar Disinfection
STTS	Sensitization Tools for Total Sanitation
TLC	Training Learning Centre
ToT	Training of Trainers
VDC	Village Development Committee
V-WASH-CC	VDC WASH Coordination Committee
WCF	Ward Citizen Forum
WSUC	Water Supply User Committee
WASH - R	WASH for Recovery
WQT	Water Quality Testing



Art by Kushal Dhakal, Grade 9 student of Everest English School, Byasi, Bhaktapur and Winner of the Inter School Drawing Competition organized by Paschim Paaila and ENPHO on the occasion of World Water Day 2017.

The art is based on "Wastewater"- the theme for World Water Day 2017

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