



ANNUAL REPORT | 2020





Environment and Public Health Organization

ENPHO Annual Report 2020

Submitted To:

29th Annual General Meeting
2077/2020

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27 December, 2020

Message from the Chairperson and Executive Director

From the last 29 years the Environment and Public Health Organization was established on 4th November 1990 (ENPHO) with an intention to provide quality services on Water, Sanitation and Hygiene (WASH), environment and Public Health. Core priorities of ENPHO include research, innovations and promotion of WASH technologies and approaches. ENPHO is constantly striving towards sustainable community development, demonstration and dissemination of eco-friendly technologies, drinking water treatment options and sustainable sanitation systems. Additionally, ENPHO promotes integrated community based approaches for safe water, sustainable sanitation, hygienic behaviour, improving indoor air, and environmental and air quality monitoring.

Though pandemic has restricted various aspects of the program/project implementation, for the majority of the projects organization has maintained the pace within the stipulated time frame. Most of the programs/projects were carried forward from the previous year/years. Like previously, the organization focused on all the aspects of sanitation and hygiene; urban sanitation, rural sanitation, the projects for sustainable sanitation, promotion and prevention for water and sanitation related health hazards.

ENPHO is promoting sustainable sanitation that are economically viable, socially acceptable, technically and institutionally appropriate, and environment suitable. In regard to this, services such as, waste water management, faecal sludge management and developing sanitation for urban, peri-urban areas and emerging small towns in Nepal are being provided by ENPHO. During the fiscal year 2019/205 projects were implemented with the support of various partners directly benefitting different communities. The major funding organizations for those advancements are Bill and Melinda Gate Foundation (BMGF) and Municipal Association of Nepal (MuAN), United Cities and Local Governments Asia Pacific (UCLG ASPAC). Similarly, the projects which ensure the rural sanitation like Rural Water Supply and Sanitation Improvement Project, named as Batch X, Package 1, for 13 direct districts with the partnership with CEMAT Lab, UNICEF etc. also being implemented.

In order to defy the pandemic, ENPHO under the various projects has been conducting different response activities and interventions to enhance awareness of public and sanitation workers on COVID-19 through communication to withstand the threats of the disease. Different communication aids on COVID-19 have been produced to sensitize the public and sanitation workers on preventive measures needed. Not only the communication, ENPHO has carried out various hardware activities at the respective project areas including installation of pedal handwashing stations, PPE set distribution, toilet construction, bio-sand filter distribution etc.

ENPHO is also working in the area of disaster risk reconstruction with the partnership of OXFAM and Centre for Affordable Water and Sanitation Technology Nepal which contribute to gender responsive sustainable recovery and reconstruction among vulnerable earthquake affected communities by providing them with safe, adequate and sustainable water.

The project like SUAHARA, Behavior Change Communication has contributed to ingrain the

positive and healthy sanitation behavior in the community substantially.

Knowledge management and upgrading Resource Centre constantly have provided sanitation and hygiene professionals ample opportunities for learning and sharing.

This year, ENPHO has moved forward in the field of research in partnership with national and international universities to expand the horizon of the ENPHO laboratory.

During the fiscal year 2019/20, ENPHO carried out various projects and programs in the areas of water quality, sustainable sanitation, community based water, sanitation and hygiene, E-WASH and disaster risk reduction, research and development, WASH and nutrition and capacity building on WASH, leading to 17 projects which impacted people directly or indirectly. Adding to this journey, it is noteworthy to mention that Nepal was declared as one of the first Open Defecation Free (ODF) country in Asia on 30 September, 2019. Post ODF the organization is consistently contributing to national goal to achieve Sustainable Development Goal too.

We believe that ENPHO will accelerate and enhance its action by becoming 'agents of change' so that community will enjoy a healthy and dignified life, in coming years.



Mr. Bhushan Tuladhar
Chairperson



Ms. Bhawana Sharma
Executive Director

Acknowledgement

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

- Aastha Scientific Research Service Pvt. Ltd.
- Abdul Latif Jameel Water and Food Systems Lab (J-WAFS)
- Akvo Nepal
- Alternative Energy Promotion Center (AEPIC)
- American Embassy
- Armed Police Force Hospital
- Asian Development Bank
- Asian Institute of Technology (AIT), Thailand
- Biogas Sector Partnership (BSP) Nepal
- Bandana Trade Concern (BTC) Pvt. Ltd.
- Baltra Pvt. Ltd.
- Bharatpur Hospital
- Bharatpur Wastewater Treatment Plant
- Bill & Melinda Gates Foundation, USA
- Biosand Filter Entrepreneurs' Association Nepal (BiFEAN)
- Bir Hospital
- Biruwa Advisors Pvt. Ltd.
- Blue Waste to Value Pvt. Ltd.
- Building Design Authority (P) Ltd.
- Bremen Overseas Research and Development Association (BORDA), Germany
- Care Nepal
- Centre for Affordable Water and Sanitation Technology (CAWST), Canada
- Center for Integrated Urban Development (CIUD)
- Clean Energy Nepal (CEN)
- Community Development Forum (CDF)
- Community Development Centre (CDC)
- Consortium of DEWATS Dissemination Society (CDD Society), India
- CEMAT Water Lab Pvt. Ltd.
- Center for Research for Environment Energy and Water (CREEW)
- Civil Services Hospital
- Development and Environment Conservation Centre - Nepal (DECON Nepal)
- Department of Health Service (DHS)
- Department for Water Supply and Sewerage (DWSS)
- Dhulikhel Hospital
- Eco Concern Pvt. Ltd.
- Rural Water Supply and Sanitation Fund Development Board (RWSSFDB)
- Sahakarmi Samaj
- Equal Access Nepal
- Federation of Drinking Water and Sanitation Users Nepal (FEDWASUN)
- FHI 360
- Friends Service Council Nepal
- Global Affairs Canada (GAC)
- Guthi
- Helen Keller International (HKI)
- Hospital and Research Center for Disabled Children
- Innovative Solution Pvt. Ltd.
- Institute for Water Sanitation (IHE Delft)
- Janahit Grahmin Sewa Kendra (JGSS), Sindhupalchok
- Japan International Cooperation Agency (JICA)
- Japan World Water Forum
- Kathmandu University (KU)
- Kathmandu Upatyaka Khanepani Limited (KUKL)
- Kathmandu Valley Water Supply Management Board (KVWSMB)
- Kirtipur Ayurvedic Research and Training Center
- Korean Environment Corporation
- LUMANTI Support Group for Shelter
- Massachusetts Institute of Technology (MIT), USA
- Municipal Association of Nepal (MuAN)
- Nepal Bureau of Standards and Metrology (NBSM)
- Nepal Engineering College (NEC)
- Nepal Environmental and Scientific Services Pvt. Ltd. (NESS Lab)
- Nepal Red Cross Society (NRCS)
- Nepali Technical Assistance Group (NTAG)
- Niva Rain
- NGO Forum for Urban Water and Sanitation
- One Planet Solution Pvt. Ltd.
- Oxfam Nepal
- Patan Hospital
- Rain Foundation, the Netherlands
- Rotary International
- RUAF HIVOS, the Netherlands

- Saligram Bal Griha, Lubhu
- SEBAC Nepal
- SIMAVI
- Shangrila Orphanage
- Shanti Jana Adarsha Sewa Kendra (SJASK)
- Shanti Nepal
- Smart Paani Pvt. Ltd.
- SNV Nepal
- Social Welfare Council (SWC)
- Society for Urban Poor (SOUP)
- Soil Test Pvt. Ltd.
- Standardization Metrology Testing and Quality (SMTQ) forum Nepal
- Stockholm Environment Institute, Sweden
- Sukraraj Tropical and Infectious Disease Hospital, Teku
- Sustainable Sanitation Alliance (SuSanA)
- Swedish International Development Cooperation Agency (Sida)
- Swiss Federal Institute for Environment Science and Technology (Eawag), Switzerland
- Tribhuvan University (TU)
- Tribhuvan University Teaching Hospital (TUTH)
- United Cities and Local Government- Asia Pacific (UCLG-ASPAC)
- UKAID
- United Nations Children's Fund (UNICEF)
- UN Habitat
- Unilever Pvt. Ltd.
- United States Agency for International Development (USAID)
- University of Illinois, USA
- University of Kyoto, Japan
- University of Yamanasi, Japan
- Urban Environment Management Society (UEMS)
- Various municipalities and Rural municipalities of Nepal
- Vijay Development Research Centre (VDRC)
- WASTE, The Netherlands
- WaterAid Nepal
- Water Engineering Pvt. Ltd. (Lab)
- Water, Sanitation and Hygiene - Resource Centre Network Nepal (WASH RCNN)
- World Bank
- 500 B Solutions Pvt. Ltd.



School students demonstrating handwashing practice

Vision

Creating Eco-Societies

Mission

To develop, demonstrate and disseminate innovative technologies and systems to enable societies become healthy and environment friendly.

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Introduction

Established on 4 November, 1990, Environment and Public Health Organization (ENPHO) envisages to create eco-societies by providing quality services on Water, Sanitation and Hygiene (WASH), environment and public health. Research, innovations and promotion of the WASH technologies and approaches have been the core priorities of ENPHO.

ENPHO, a service oriented, scientific, national non-governmental organization, is constantly striving towards sustainable community development, demonstration and dissemination of eco-friendly technologies including drinking water treatment options and sustainable sanitation systems. ENPHO promotes integrated community based approaches for safe water, sustainable sanitation, hygienic behavior, improving indoor air, and environmental and air quality monitoring for creating healthy and environment friendly societies.

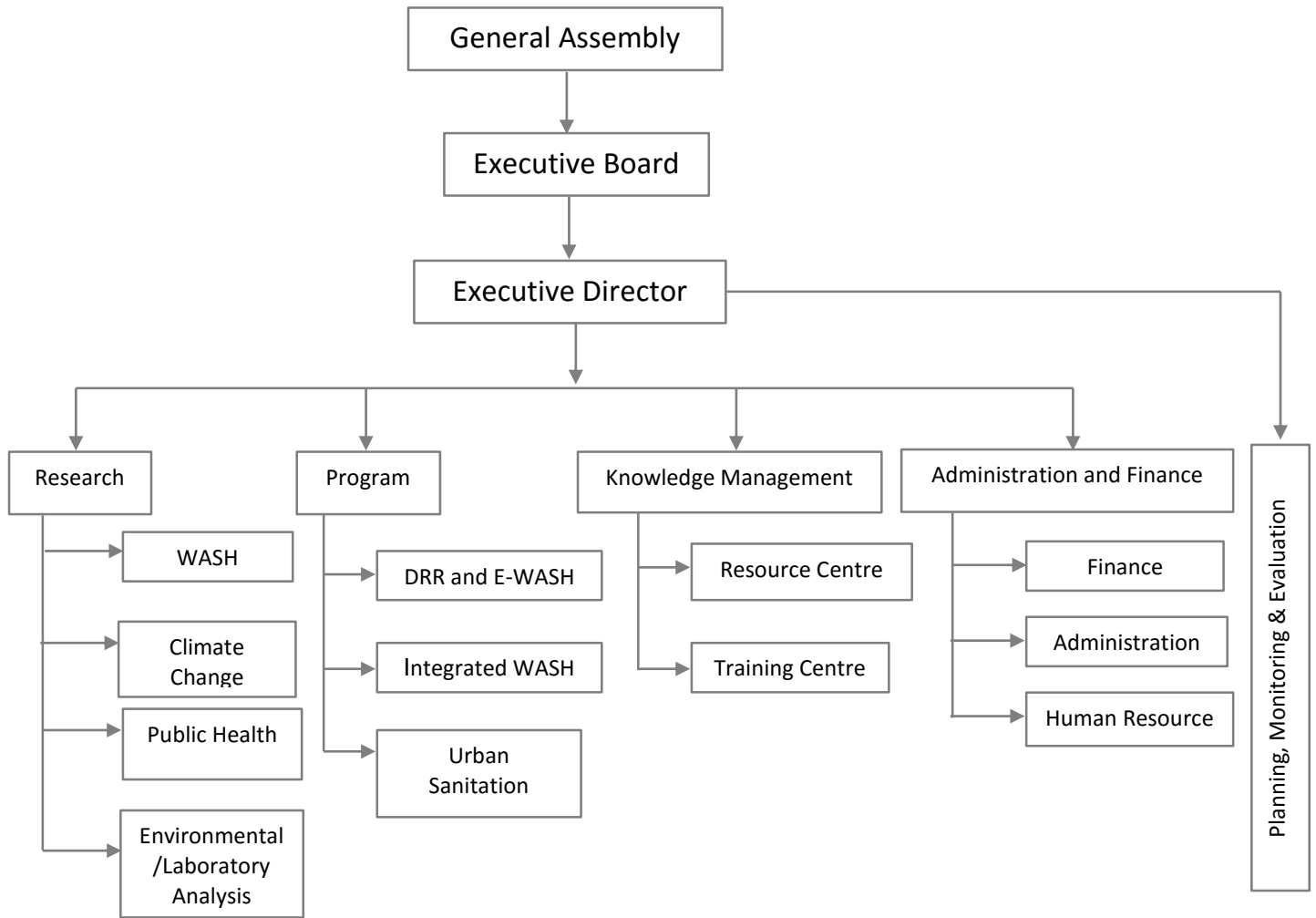
Strategic Objectives

- Conduct applied research and develop innovative technologies that are acceptable to local communities;
- Demonstrate eco-friendly technologies and practices;
- Develop and implement effective strategies and programs to promote eco-friendly societies;
- Network with partners for coordination and advocacy;
- Enhance local capacity.

With the aim of continuously contributing to the National SDG targets, ENPHO is:

- Advocating for safely managed drinking water services through local capacity building and scaling-up promotion of low-cost drinking water supply and treatment systems;
- Demonstrating safely managed sanitation services by effective management of fecal sludge, wastewater and solid waste including promotion of recycling and safe reuse;
- Increasing improved access to safe WASH by Total Sanitation interventions;
- Building local capacity on Urban WASH preparedness and community based disaster risk reduction;
- Integrating urban agriculture with water optimization and sustainable sanitation systems as a potential climate change adaptation strategy.

ENPHO is governed by a General Assembly comprising of 129 members that elects an Executive Board once every three years. The Executive Director leads 274 staff members of which 46 per cent are female.



Organizational Structure of ENPHO



ENPHO's Milestones

1990	Water quality monitoring of Bagmati River and Kathmandu's water supply system
1992	Initiated air quality monitoring for the first time in Nepal within Kathmandu Valley
1994	Production and distribution of Piyush [®] , a chlorine solution started
1997	Introduced Constructed Wetlands for Wastewater Treatment System in Nepal
1998	Introduced Faecal Sludge Management (FSM) in Nepal
2000	ENPHO Laboratory accredited by the Government body "Nepal Bureau of Standard and Metrology" under NEPLAS system based on ISO 17025
2000	Production of ENPHO test kit, Arsenic testing and mitigation activities initiated in Terai region
2001	Field based research on promotion of SODIS and EcoSan
2003	Development and Promotion of Kanchan [™] Arsenic Filter in partnership with Massachusetts Institute of Technology (MIT)
2007	Initiation of Integrated Community based WATSAN Programme and declaration of Open Defecation Free (ODF) at community level
2008	Scaling up of waste water treatment system at municipal level and integration of bio-gas system
2009	Initiation of <i>Paschim Paaila</i> - A youth campaign against diarrhea epidemic in Western Nepal
2012	Started working on urban disaster risk reduction with focus on emergency WASH
2013	Promotion of roof top agriculture as an adaptation for climate change
2016	Establishment of the first pre-fabricated faecal sludge treatment plant
2017	Publication of ENPHO's Scientific Journal – " <i>Journal of Environment and Public Health</i> "
2018	Piloting of Sanitation Safety Planning
2020	Development of FSM By-Laws for the safe management of fecal sludge in Mahalaxmi Municipality which is the first in Nepal

Our Work at a Glance

During the fiscal year 2019/20, ENPHO carried out various projects and programs in the areas of water quality, sustainable sanitation, community based water, sanitation and hygiene, E-WASH and 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 **17 projects** benefitting **1,400,693 people** directly and indirectly.

Total Projects and Beneficiaries for this FY 2019/20

17 Projects

1,400,693 People benefitted directly and indirectly

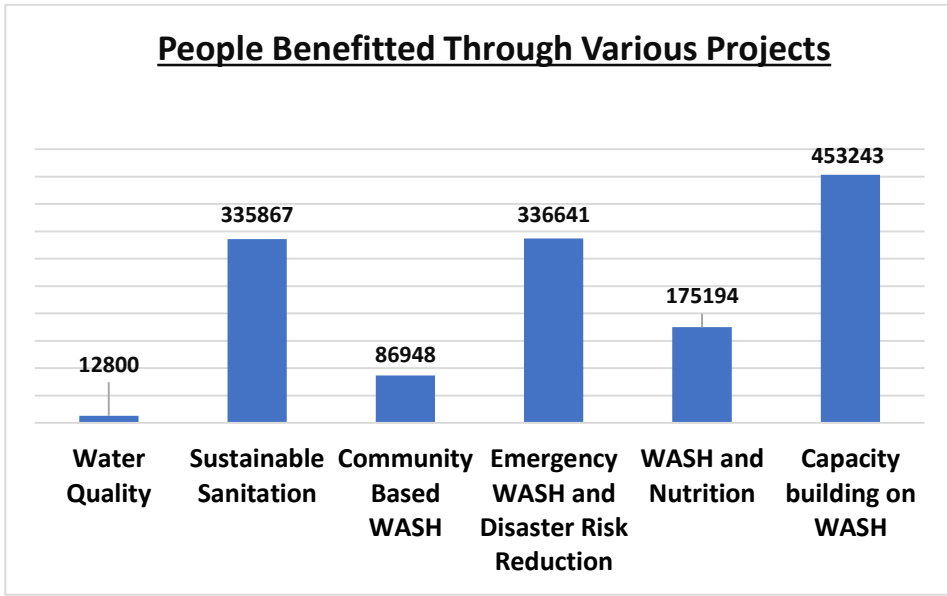
Altogether, 17 projects were carried out in which 7 projects have been completed and 10 are ongoing. Out of 17 projects, 2 were on “Water quality”, 5 on “Sustainable Sanitation”, 2 on “Community based WASH”, 3 on “Emergency WASH and Disaster Risk Reduction”, 2 on “Research Development”, 1 on “WASH and Nutrition” and 2 on “Capacity building on WASH”.

Within this fiscal year, altogether, **12,800 people** benefitted through **water quality** projects and **3,35,867 people** benefitted through **sustainable sanitation** projects.

Altogether, **86,948 people** were benefitted through **community based WASH** project, while **3,36,641 people** benefitted through **Emergency WASH and Disaster Risk Reduction** projects. Likewise, **1,08,158 people** benefitted by WASH and Nutrition project and **4,53,243** numbers of WASH professional and municipal officials benefitted through **capacity building** projects and programs.

This year, altogether, **1,09,309 units of Piyush** and **31,027 units of Piyush Plus** were sold in partnership with Eco Concern Pvt. Ltd. With this, after the validation study, ECC vial was officially launched in the market.

For this FY 2019/20, ENPHO Training Centre developed **5 new WASH packages** and **21 new online orientation packages related to COVID - 19 and WASH**. In addition to this, ENPHO Resource Centre published **100 Publications and IEC materials** for various projects, programs and events.



Thematic Programs

1. Safe Water

1.1 Production and Distribution of Piyush and Piyush Plus

Piyush

The chlorine solution “Piyush” is being widely used in Nepal as one of the effective options to treat drinking water. It is also one of the best options to treat water during emergency situations, epidemic and disaster response. ENPHO laboratory produces the chlorine solution “Piyush” and is being distributed and promoted through various projects and partners.

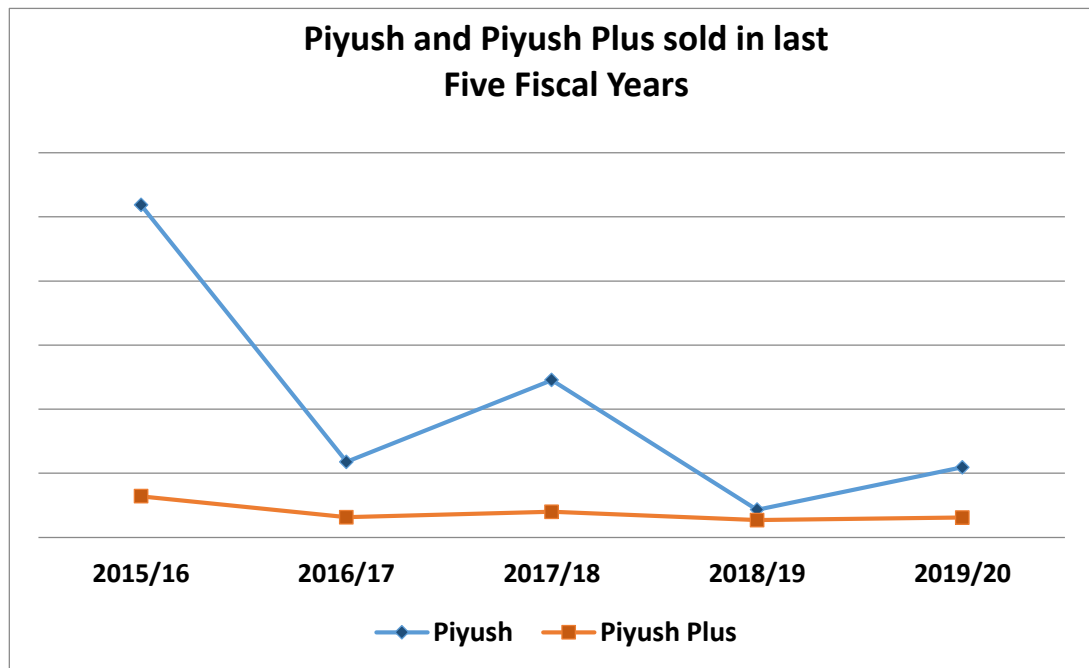
During the fiscal year 2019/20, altogether **1,09,309 units of Piyush** were sold.

Piyush Plus

“Piyush Plus” is another chlorination solution used for disinfecting larger volume of water. ENPHO has been producing Piyush Plus in 240 mL bottles since 2010. A bottle of Piyush Plus can disinfect 1200 liters of water.

Altogether, **31,027 units of Piyush Plus** were sold in this fiscal year.

Both the chlorine solutions have been popular since they are easy-to-use, reliable and affordable. Additionally, ENPHO has also been producing 1% chlorine solution for disinfecting even higher volumes of water (e.g. water tankers, reservoirs) and its demand is gradually increasing.



1.2 Water Quality

1.2.1 Technical Assistance for Water Quality Testing and Quality Assurance in Nepal Multiple Indicator Cluster Survey (NMICS) 2019

Status: Completed

Project Partners:	UNICEF
Project Area:	All 77 districts of Nepal
Project Duration:	December 2018 to December 2019

Aim:

- To assure quality data generation for water quality testing from MICS survey;
- To develop a manual of 'Water Quality Testing' in Nepali and train measurers for water quality testing;
- To verify the field test kits to be used for water quality testing in field.

Project Description:

MICS provides data that are essential for developing evidence-based policies as well as monitoring progress towards national goals and global commitments aimed at promoting the welfare of children, including the Millennium Development Goals (MDGs). Since 1995, UNICEF has supported the implementation of MICS, assisting countries in generating high quality data on the situation of children.

Nepal MICS (NMICS) 2014, for the first time, included water quality testing module which generated valuable microbial water quality data of the water that is actually being consumed within the households in Nepal, in terms of *E. coli* and coliform bacteria. ENPHO provided its technical assistance in training on water quality testing and assuring quality of the activity in Nepal MICS 2019 as well.

Project Outputs:

- Produced report on 'Technical Assistance for Water Quality Testing and Quality Assurance in Nepal Multiple Indicator Cluster Survey (NMICS) 2019';
- Produced a kit verification report- 'Verification of Coliform and Arsenic Kits for the Nepal Multiple Indicator Cluster (NMICS) 2019';
- Prepared Proceedings of Training on Water Quality Testing for Measurers 2019;
- Prepared Water Quality Testing Monitoring Reports on Phase I, II and III Monitoring Performance of Measurers;
- Revised English and Water Quality Questionnaire and the manual;
- Revised Instructions for filling Water Quality Questionnaire;
- Organized Project Review Workshop;
- Prepared Proceeding of Review Workshop;
- Prepared brief report on Measurers Feedback on Water Quality Module, NMICS 2019;
- Prepared validation report of duplicate testing for Arsenic;
- Prepared Proceeding of Review Workshop;
- Prepared brief report on Measurers Feedback on Water Quality Module, NMICS 2019;
- Prepared validation report of duplicate testing for Arsenic;

Major Achievements:

- Pre-test of the EAWAG Millipore Bacteriological Field Test kit and Quick Arsenic Test Kit to be used for water quality testing;
- Revised version of English and Nepali Water Quality Questionnaire was prepared;
- Trained 18 water quality measurers for water quality testing for E. coli and Arsenic in field;
- Validation of duplicated testing for Arsenic;
- Completed performance monitoring of through observation and duplicate test, and suggesting corrective measures when required;
- Preparation of compilation report on Monitoring of performance of measurers.

Beneficiaries:



2560 HHs



12,800 people reached

1.2.2 Rural Water Supply and Sanitation Improvement Project, Batch X, Package 1, Implementation Phase

Status: Completed

Project Partner:	CEMAT Lab
Funded by:	FUNDBOARD
Project Areas:	Dhankuta, Ilam, Jhapa, Panchthar, Tehrathum, Bhojpur, Udayapur, Khotang, Sankhuwasabha, Okhaldhunga, Dhanusha, Mahottari and Sindhuli All Nepal
Project Duration:	September, 2019 to January, 2020

Aim:

- To conduct water quality test/analysis of physical, chemical and biological parameter of Batch X Implementation Phase (IP) Schemes in order to identify safe water of acceptable quality;
- To conduct water quality test of reservoir tank (RVT), tap and household (HH);
- To propose appropriate measures, if required, to provide safe water;
- To submit the water quality analysis report in the format provided by Fund Board.

Project Description:

Rural Water Supply and Sanitation Project is a demand led community based project being implemented by Rural Water Supply and Sanitation Fund Development Board (RWSSFDB) and is funded by Government of Nepal. The objectives of the project are to:

- Improve sector institutional performance and mainstream the “Fund Board” approach in the Government’s system, and
- Support communities to form inclusive local water supply and sanitation user groups that can plan, implement, and operate drinking water and sanitation infrastructure that delivers sustainable health, hygiene, and productivity benefits to rural households.

In this context, this project of water quality assessment of Batch X schemes under Implementation Phase –Package 1 has been assigned to CEMAT/ENPHO Joint Venture. The project aims to conduct water quality analysis of thirteen districts of eastern and central development region of Nepal. Altogether 492 samples were collected by ENPHO out of 1408 samples. Remaining samples were collected by CEMAT lab.



Altogether 19 parameters namely pH, taste, odour, electrical conductivity, turbidity, colour, total dissolved solid, total alkalinity as CaCO₃, iron, calcium, ammonia, fluoride, nitrate, chloride, total hardness as CaCO₃, Manganese, Arsenic (only for Tube Well Schemes), Total

Coliform and E. coli for the water samples were tested. Langelier Saturation Index (for gravity flow schemes) was also determined for the samples of gravity flow schemes. Sanitary inspections

Project Outputs:

- Trained four field technicians on sample collection;
- Collected 492 samples from 51 schemes from seven districts;
- Prepared Water Analysis Test Result Sheet;
- Prepared scheme wise summary report;

Major Achievements:

- Collection of 492 water samples from seven districts which included Mahottari, Dhanusha, Jhapa, Sindhuli, Khotang, Sankhuwasabha and Okhaldhunga districts

2. Sustainable Sanitation

ENPHO is promoting sustainable sanitation that are economically viable, socially acceptable, technically and institutionally appropriate, and environment suitable. In regard to this, services such as, waste water management, faecal sludge management and developing sanitation for urban, peri-urban areas and emerging small towns in Nepal are being provided by ENPHO.

During the fiscal year 2019/20, under “Sustainable Sanitation” thematic program, altogether, **5 projects** were implemented with the support of various partners directly benefitting **3,35,867 People**.

This year, Mahalaxmi Municipality approved and published Faecal Sludge Management (FSM) By-Laws which is the first-ever on-site sanitation legal instrument in Nepal.

Additionally, under the project ‘Municipalities Network Advocacy on Sanitation in South Asia’ SFD reports of Lamahi and Bheemdatta municipality were published. Also, all 5 Pilot Municipalities have endorsed FSM Policy.

Furthermore, construction of DEWATS at Dhulikhel Hospital and FSTP at Madhuban Municipality were completed.



2.1 Supporting the Development of Sustainable Solid Waste Management Strategies for the Mountainous Regions of Pakistan, India and Nepal

Status: Completed

Project Partner: Korean Environment Corporation (K-Eco)
Project Areas: Ghandruk and Chomrong of Annapurna Rural Municipality
Project Duration: March to September 2019

Aim:

- To support in developing sustainable solid waste management strategy so as to minimize environmental pollution in the mountainous regions in Nepal.

Project Description:

Ghandruk and Chomrong have become popular tourist destinations for a unique culture of Gurung residing in that area. The consumption habits and associated activities of tourist and local inhabitants have resulted to increment in solid waste generation and been as one of the most visible environmental problems that are gradually deteriorating the aesthetic value of local mountain environment.

Though various initiatives have been made through various stakeholders in managing solid waste, the region still lacks proper guideline and strategies for solid waste management. To preserve the mountain ecosystem and manage solid waste in the best way, effective plans and strategies are essential. In this regard, ENPHO, in agreement with Korean Environment Corporation (K-Eco) and with the financial support from World Bank, has supported Annapurna Rural Municipality to develop long term solid waste management plan for an effective solid waste management under the project- "Supporting the Development of Sustainable Solid Waste Management Strategies for the Mountainous Regions of Nepal".



Project Outputs:

- Calculated waste characterization and generation from Ghandruk and Chomrong areas;
- Analyzed findings to indicate potential options for waste management in the specific area;

Major Achievements:

- Prepared Solid Waste Management Strategy Plan and Final Technical Report and submitted to K-Eco

Beneficiaries:**1,278 people****2.2 Consulting Service for Construction of Decentralized Wastewater Treatment System (DEWATS)****Status: Completed**

- Project Partner:** Dhulikhel Hospital
- Project Area:** Dhulikhel Hospital, Kavre
- Project Duration:** June 2017 to December 2019

Aim:

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

Project Description:

In 1997, ENPHO introduced Nepal's first constructed wetland system for the wastewater management in Dhulikhel Hospital. Last year, Dhulikhel hospital decided to construct new DEWATS to accommodate the wastewater generated from the extended hospital. ENPHO provided technical support to design and supervise the construction of DEWATS in Dhulikhel Hospital. Furthermore, ENPHO provided the operation and maintenance training for caretakers for the sustainability for DEWATS. The system has been design to treat daily wastewater from 1500 population.

Project Outputs:

- Prepared a detail engineering design report;
- Supervised and provided technical assistance to construct DEWATS;
- Construction of DEWATS in Dhulikel Hospital;
- Conducted treated water testing and regular monitoring



Major Achievement:

- Establishment of DEWATS in Dhulikhel Hospital which is in operation.

Beneficiaries:



1,500 people

2.3 Establishing specialized technical support and field research center for FSM and non sewered sanitation

Status: Completed

Project Partners: BORDA, Selected Municipalities

Project Area: Urban Municipalities in Nepal

Project Duration: January 2019 to September 2019

Aim:

- To establish visible, successful end-to-end FSM systems and to support governments to get the high quality, reliable and timely technical support they need so they can meet their sanitation goals

Project Description:

Within this project, ENPHO provided technical consulting support to government and sanitation partners in designing, implementing and sustainable operation of high quality, end-to-end

faecal sludge management systems that improve sanitation, public health, living conditions and the environment in cities in Nepal. The feasibility assessment and Detailed Project Report (DPR) of FSM services were prepared in three municipalities (Madhuban, Godawari and Dadeldhura). Together with Madhuban municipality, a natural Fecal Sludge Treatment System has been established and preparation of viable business plan including O&M guidelines are in the process. Madhuban municipality contributed land and 50% construction cost for the establishment of FSTP. Similarly, the project organized trainings and workshops on fecal sludge management and non-sewered sanitation to build local capacity and advocate for FSM services at the local level. Together with EcoConcern Pvt. Ltd., ENPHO has prepared a business model to operate and manage the FSTP at Lubhu.



Project Outputs:

- Established FSTP in Madhuban Municipality;
- Prepared Detail Project Report (DPR) on FSTP for Madhuban, Dadeldhura and Godawari Municipalities;
- Completed “Training on Introduction to FSM” to 29 officials from 11 municipalities;
- Organized “Workshop on Fecal Sludge Management” to 34 local representatives and officials from 5 municipalities

Major Achievements:

- Constructed FSTP in Madhuban Municipality in collaboration with the municipality

Beneficiaries:



58,500 people

2.4 Municipalities Network Advocacy on Sanitation in South Asia (MuNASS)

Status: Ongoing

Project Partners: BMGF, Municipal Association of Nepal (MuAN), United Cities and Local Governments Asia Pacific (UCLG ASPAC)

Project Areas: Lahan Municipality, Siraha district, Province 2; Dhulikhel Municipality, Kavre district, Bagmati Province; Waling Municipality, Syangja district, Gandaki Province; Lamahi Municipality, Dang district, Province 5; Bheemdatt Municipality, Kanchanpur district, Sudurpachim Province

Project Duration: May 2018 to December 2020

Aim:

- To strengthen capacity of MuAN in implementing national policy and strategy on sanitation, with a focus on Faecal Sludge Management (FSM) and Non-Sewered Sanitation (NSS) system in line with SDG 6.2;
- To contribute in improving the urban sanitation policy framework and guideline through collaboration with relevant ministries and stakeholders;
- To implement the sanitation and investment plans in pilot municipalities focusing on FSM policies, institutional, financial and regulatory framework;
- To develop and improve the accessibility on financial options through different funding mechanisms such as Public-Private Partnerships, cooperation with banks and development.

Project Description:

The “Municipalities Network Advocacy in Sanitation in South Asia (MuNASS)” project, focuses on Faecal Sludge Management policy advocacy at municipal level. The project emphasizes on strengthening capacity of local municipal association and municipalities in designing and implementing robust and developing effective policies on creating sustainable financing strategies on sanitation, particularly on FSM and NSS and improving sanitation policy framework with the joint collaboration with associated sanitation level stakeholders. Furthermore, this project, among others, focuses on capacity building, implementing national policy and strategy on sanitation with focus on FSM and NSS system in line with SDG 6.2.

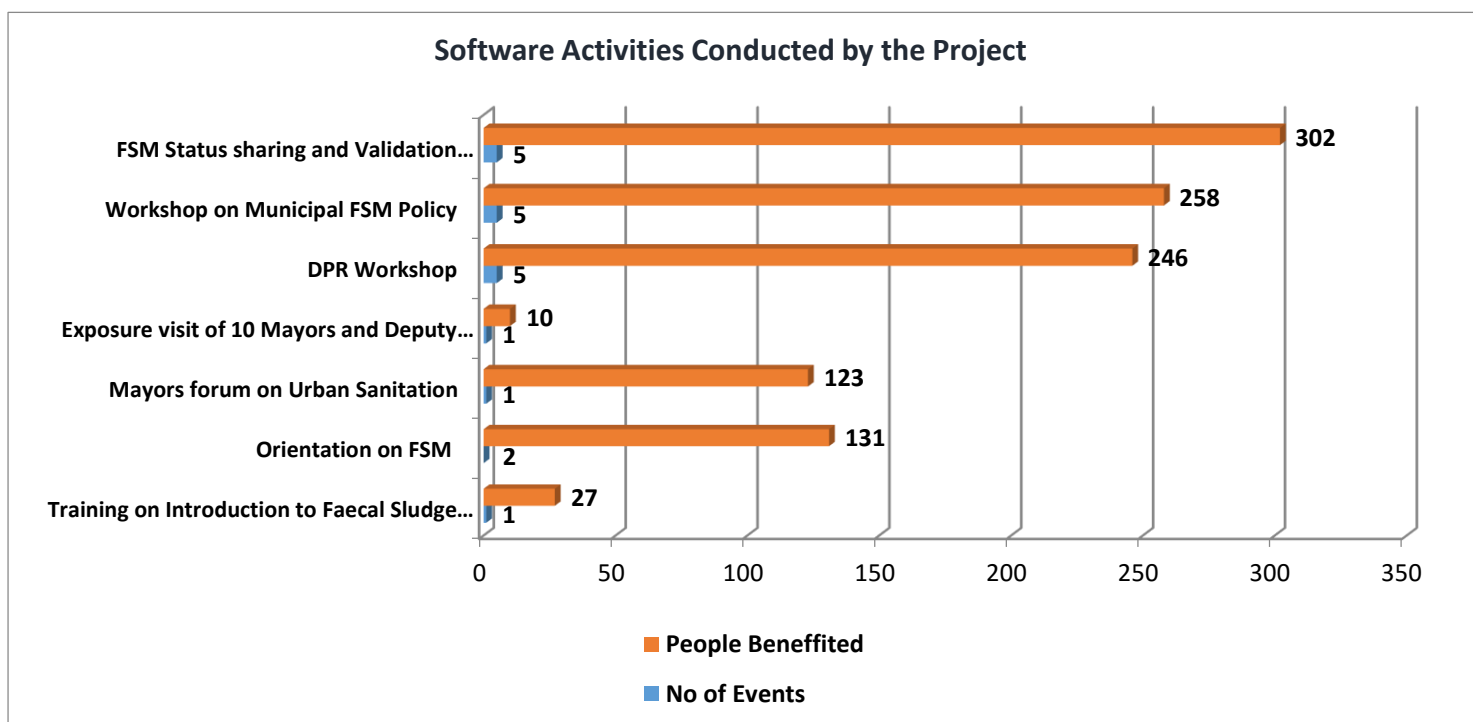


Project Outputs:

- 179 Mayors, Deputy Mayors and elected officials sensitized on FSM and IRF through Provincial level workshop in Province 1, 5 and Sudurpaschim;
- Capacitated 114 municipal representatives and technical human resources from 5 pilot municipalities on FSM;
- Enhanced capacity and commitments of Champion mayors on municipal urban sanitation through exposure visits;
- Strengthen cooperation with Ministries and relevant stakeholders.
- Recognized MuAN as a member of NSHCC and a member of Urban Sanitation Promotion Committee (as a subcommittee);
- Organized learning visit program for 10 Mayors to Malaysia and Indonesia to enhance their knowledge on FSM;
- Published Sanitation Situation Report of 5 Pilot Municipalities;
- Deputy Mayors, CAO & FP of Pilot Municipalities learning visit to India;
- Regulated Fecal Sludge Management in 5 model cities/municipalities;
- Annual increase of FSM budget allocation in the pilot municipalities.

Major Achievements:

- Published SFD report of Lamahi and Bheemdatt Municipalities;
- Organized the first National Mayors’ Forum on Urban Sanitation with nine points Kathmandu Declaration on FSM;
- All 5 Pilot Municipalities endorse Municipal FSM Policy;
- FSTP DPR of Pilot Municipalities;
- Initiated construction of FSTP as per prepared DPR by Waling;
- MuAN endorses FSM in its Strategic Plan;
- Nepal Mayors share experience at international arena in APUF-7 (Penang, Malaysia);
- Establishment of FSM Desk in Pilot Municipalities.



Beneficiaries:



274589 People Reached
(157055 Male and 117534 Female)

2.5 Pilot Implementation of FSM Standard in Nepal-Mahalaxmi, Lalitpur as Pilot Municipality

Status: Ongoing

- Project Partner:** Bill and Melinda Gates Foundation, Mahalaxmi Municipality, Kathmandu Valley Water Supply Management Board (KVWSMB), National Bureau of Standards and Metrology (NBSM)
- Project Area:** Mahalaxmi Municipality and replication in two Municipalities (to be identified)
- Project Duration:** January 2019 to June 2021

Aim:

- To test the application of ISO 24521 guidelines for the management of basic on-site domestic wastewater services and thereby help improve environmental sanitation conditions in Mahalaxmi Municipality, and;
- To draw lessons from this piloting experience and evidence to recommend adoption of the ISO 24521 guidelines at the national level through policy and practice changes.

Project Description:



ENPHO is supporting pilot implementation of the ISO 24521 guidelines for the management of basic on-site domestic wastewater services in Mahalaxmi Municipality. To achieve this objective, ENPHO is collaborating with the Municipality, KVWSMB, NBSM and other relevant stakeholders. The project, which is supported by the Bill and Melinda Gates Foundation (BMGF) under grant assistance, is the first of its kind in Nepal and globally.

The Project has three interrelated expected outputs:

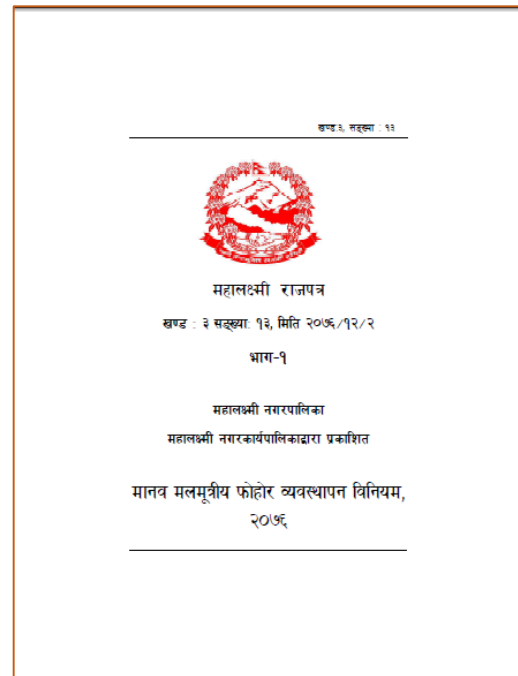
- Output 1: National adoption of ISO 24521 guidelines by National Bureau of Standards and Metrology;
- Output 2: Implementation of ISO 24521 guidelines in Mahalaxmi Municipality as a pilot initiative and, based on lessons learnt, replicate in an additional Municipalities; and
- Output 3: Documentation of impact of implementation of ISO 24521 FSM guidelines and influence policy and practices on domestic wastewater management

Project Outputs:

- Assessed sanitation situation of Mahalaxmi Municipality;
- Prepared sanitation situation assessment report of the Municipality;
- Established sanitation cell in the Municipality with one dedicated Municipal Engineer to undertake sanitation functions in the Municipality;
- Construction of standard septic tanks made mandatory in all new house design permits in the Municipality;
- ISO 24521 guideline nationally adopted by Nepal Bureau of Standards and Metrology;
- Prepared detailed project report of FSTP;
- Approval of FSM By-Laws by Mahalaxmi Municipality.

Major Achievements:

- National adoption of ISO 24521 Guideline
- Approval of FSM By-Laws by Mahalaxmi Municipality for safely managed sanitation services



Sanitation Situation Assessment Report (left) and FSM By-Laws (right)

Stories from the Field

Waling Proves: ‘Where There is Will, There Is A Way’

Strong leadership, good team effort, proper collaboration and efficient utilization of available resources, finally resulted to construction of Fecal Sludge Treatment Plant (FSTP) in Waling Municipality despite COVID-19 pandemic.

Apart from ensuring policy advocacy and capacity building of local governments on sanitation, particularly in FSM, Municipalities Network Policy Advocacy on Sanitation in South Asia (MuNASS) project assisted five municipalities in Nepal (including Waling) in developing their own FSM Policy as well as a Detailed Project Report (DPR) of FSTP. Though issues on FSM has been in priority since Nepal attained ODF status on 30 September 2019, there has been no fully functional FSTP at local government level. MuNASS does not have direct funding support to build FSTP either.

However, Waling municipality went a step ahead in finding their own resources and promptly acted with MuNASS Team to develop a DPR to plan further for construction of FSTP in their own land allotted for solid waste management. When construction was about to begin by April 2020, like elsewhere, global COVID-19 pandemic spread like an unfortunate wildfire. But all this did not stop Waling municipality to continue construction work of its very own treatment plant.

Despite of the global pandemic, strong determination of Waling municipality played a central role in initiating the treatment plant construction. Proper planning during the entire process of DPR preparation facilitated by technical partner, municipal FSM policy and implementing partner contributes significantly to motivate Waling municipality for this exemplary mission.



Components of constructed FSTP

Institutionalization of Standard Septic Tank Design

When we talk about sanitation, the entire sanitation service chain needs to be addressed. And, it is equal responsibility and duty of the Municipality to formulate necessary policies and regulations, implement them and provide information to the city dwellers in order to safely manage the municipal wastewater and faecal sludge. In this regard, Mahalaxmi Municipality has played the leadership role to institutionalize the standard septic tank in the Municipality.

The construction of standard septic tanks has been made mandatory in all new house design permits. Also, the Municipality is campaigning for construction of the sealed and standard septic tanks in new buildings to be constructed in the Municipality. Awareness raising programs include providing information on importance of such tanks, its implications on water sources and human health. Permanent permit is granted only to those houses which have constructed standard septic tanks. Otherwise, the houses will be forbidden to get other facilities and recommendations from the Ward and Municipality offices.



“The construction of standard septic tanks is mandatory in all new house design permits.”

*Mr. Rameshor Shrestha,
Mayor, Mahalaxmi Municipality
Lalitpur*

Mr. Shrestha further adds *“Immediate improvements of the old containments may not be possible. However, Municipality will be gradually providing them necessary technical support and also rewarding them to construct the standard septic tanks in old buildings.”*

In line with the provisions made in Local Governance Operation Act (2017- Article 29, pg. 64), this project has supported to include a two-page guidelines on standard septic tanks and soak away system as an integral component to the new house design permits. The Sanitation Cell established in the Municipality is providing necessary support for this.

3. Community Based WASH

ENPHO has been involved in community based WASH projects to increase people's access on safe water, sustainable sanitation and improved hygiene facilities and services. During this fiscal year 2018/19, ENPHO, with the support of various partners, implemented **2 projects** on community based WASH benefitting **86,948** people.

This year, with the support of BORDA, ENPHO carried out a new project 'Integrated Urban Water Management at the Center of Municipal Public Services' support the municipalities and environmental service providers for improving the living conditions of the people through protecting the natural resources. The project is being implemented at Godawari and Kirtipur Municipality.



3.1 WASH SDG in Nepal

Status: Ongoing

Project Partner:	WASH Alliance International (WAI)
Consortium partner for Phase I:	Local Municipalities, LUMANTI, BSP Nepal, FSCN, FEDWASUN, Biruwa Advisors, Sahakarmi Samaj, AKVO Nepal
Technical Assistant:	RUAF, RAIN/Hivos, WASTE, AKVO, Eco Concern, Smart Paani, HELVETAS, NFCC, Local private agencies/ entrepreneurs, local finance institutions
Project Areas:	All wards of Bheriganga Municipality & Barahatal Rural Municipality of Surkhet District, Karnali Province.
Project Duration:	July 2018 to July 2020 (Phase I) September 2020- Sept 2022 (Phase II)

Aim:

The aim of WASH SDG Project is to contribute Nepal Government in achieving WASH SDG targets.

Project Description:

WASH SDG Nepal is a four years, comprehensive community focused project dedicated to meet the overall of “Sustainable and equitable use of WASH by all”. The project aims to contribute to the government’s target on SDG goal of Water, Sanitation and Hygiene. With the support of WASH Alliance International (WAI), ENPHO in collaboration with WAI consortium partner organizations have completed the first phase of the project implementation from 1st July 2018 to 30th June 2020. Where, demand generation from the community and ensuring an enabling environment by local government and promoting female led WASH entrepreneurs are the major achievements.



The second phase of the project has been planned for July 2020- September 2022 including 3 months reporting period, where demand from community and local stakeholders would be ensure through coordination and collaboration with private entrepreneurs and cooperatives, focusing the public pathways of project intervention.

The project overall focuses on:

- Improving behavior change interventions leading to increased demand for improved WASH facilities and practices,

- WASH service provision leading to increased availability and affordability of WASH products and services which contributes to sustainable and equitable access to WASH and
- Strengthening of the WASH governance and institutional framework leading to governments enabling efficient and effective delivery of inclusive and sustainable WASH services, which contributes to sustainable and equitable access to WASH.

Project Outputs:

- 18 Improved latrines have been constructed as for demonstration at both the municipalities;
- Business plan for registered BSF entrepreneur has been developed for the sustainability support for private sector;
- Under WASH SDG project, ENPHO in collaboration with local government, schools and Private Sector "Smart Paani" have installed water purifying system in selected five schools of Bheriganga Municipality (2) and Barahatal Rural Municipality (3);
- Biogas plant connecting the latrine, contributing to safe kitchen management along with productive reuse of by-product have been installed at 88 HHs including 10 Dalit HHs;
- Supported 10 quarantine designated places at both the municipalities with Pedal Operated Handwashing Station, temporary toilets and Chlorine solutions during COVID-19 Pandemic;
- Training on Leadership Development focused on women empowerment have been organized;
- Orientation on COVID-19 and WASH have been organized for awareness raising.

Hardware:

<p>Supported Bio-sand Filters at Quarantine Centers Quantity: 24 Beneficiaries: 896 people</p>	<p>Stockpiling of Chlorine Solution for monsoon Quantity :100 Liters Beneficiaries: 896 people</p>	<p>Demonstration of Improved Latrines Quantity: 18 Beneficiaries: 99 people</p>
<p>Construction of Household Level Bio-gas Quantity: 163 Beneficiaries: 897 people</p>	<p>Supported Toilet Pans at Quarantine Center Quantity: 8 Beneficiaries: 200 people</p>	<p>Supported Emergency Latrines Quantity: 10 Beneficiaries: 300 people</p>
<p>Installed Pedel Operated Handwashing Station Quantity: 10 Beneficiaries: 896 people</p>	<p>Installed Filters at school Quantity: 6 Beneficiaries: 399 students</p>	<p>Demonstration of Improved Latrines at health post Quantity: 1</p>

Software:

<p>Orientation on Climate Resilient Water Safety Plan (CRWSP)</p> <p>4 event Beneficiaries: 39 people</p>	<p>Training on Construction of Bio Sand Filter</p> <p>1 event Beneficiaries: 8 people</p>	<p>Awareness raising on MHM through Local NEWS papers and FM Stations</p> <p>2 events</p>
<p>Orientation on Household level Bio-gas Promotion</p> <p>13 events Beneficiaries: 398 people</p>	<p>Community Awareness on Productive Use of Waste</p> <p>2 events Beneficiaries: 50 people</p>	<p>Street drama on SRHR and WASH</p> <p>17 events Beneficiaries: Around 5000 people</p>
<p>Training on SRHR and WASH</p> <p>1 event Beneficiaries: 30 staffs and WASH volunteer</p>	<p>Orientation on SRHR and WASH</p> <p>38 event Beneficiaries: 10923 community women</p>	<p>Orientation on Hygiene Awareness</p> <p>23 event Beneficiaries: 805 students</p>
<p>Orientation on WASH in School</p> <p>9 events Beneficiaries: 360 WASH-CC members</p>	<p>Orientation on WASH load and WASH market</p> <p>2 events Beneficiaries: 39 people</p>	<p>Training on WASH rights focusing on GESI</p> <p>2 events Quantity: 22 people</p>
<p>Training on Homemade Sanitary Pad Making</p> <p>1 event Beneficiaries: 35 people</p>	<p>Orientation on Menstrual Health</p> <p>2 events Beneficiaries: 68 teachers</p>	<p>Training on Leadership Development for women</p> <p>4 events Beneficiaries: 130 people</p>
<p>Lobby and Advocacy workshop</p> <p>1 event Beneficiaries: 20 people</p>	<p>Orientation on WASH for women group</p> <p>23 wards Beneficiaries: 8920 people</p>	<p>Orientation on COVID-19 and WASH</p> <p>1 event Beneficiaries: 13 people</p>
<p>Exposure Visit</p> <p>1 event Beneficiaries: 30 people</p>		

Major Achievements:

- Altogether three WASH entrepreneurs have been registered at Bheriganga and Barahataal Municipality. Out of three entrepreneurs, two of them are Female. One of which is producing bio-sand filter and another is operating WASH Mart business.
- Vulnerability assessment reports, a draft WASH plan has been developed. Also, 9 draft WASH improvement plans of schools and 4 draft Climate Resilient Water Safety Plan of Water Supply Schemes (WSS) have also been developed.
- After the continuous advocacy at both the municipalities, budget for WASH Bheriganga Municipality has been increased by 14% whereas Barahataal Rural Municipality hiked the budget by 58% compared to the first year of the project implementation.
- Improved latrine designs have been included in visibility copy to ease people willing to upgrade and improve their existing latrines.
- WASH improvements at five selected schools from both the municipalities have been completed
- 88 including 10 Dalit HHs have installed Biogas plant connecting the latrine, contributing to safe kitchen management along with productive reuse of by-product. Urine applications have also been adopted for model community.
- Linkage created of a Dalit female entrepreneur with Rural Municipality for homemade sanitary pad and also coordinated for pad distribution at schools with discounted rates.

Beneficiaries:

68209 people reached
(**36078** female and **32131** male)

3.2 Integrated Urban Water Management at the Center of Municipal Public Services

Status: Ongoing

Project Partner: BORDA

Project Area: Godawari Municipality and Kirtipur Municipality

Project Duration: January 2020 to December 2020

Aim:

- To support the municipalities and environmental service providers for improving the living conditions of the people through protecting the natural resources

Project Description:

It is essential to step towards sustainable management of water and sanitation services through integrated approaches incorporating various urban issues.

Hence, Environment and Public Health Organization (ENPHO) in the partnership with BORDA has implemented “Integrated Urban Water Management at the centre of municipal services” project in Godawari and Kirtipur municipalities.

The specific objective of the project is to:

- Provide support and services in development, implementation and operations in sustainable environmental and WASH services.
- Enhance the knowledge and capacity of municipal environmental service providers and stakeholders in sustainable water management sector.



Project Outputs:

- Trained 22 municipal officers and water user’s committee on Water Source Protection
- Trained 41 waste management operators on Solid Waste Management
- Trained 11 people in water quality sampling and testing using

ENPHO Water Quality Test kit

- Installed Chlorine dosing units at five water supply schemes of Godawari Municipality
- 14 sets of ENPHO Water Quality Test kit distributed to wards of Godawari Municipality
- Pedal Operated Handwashing Station installed at 10 places of Godawari and Kirtipur Municipality

Beneficiaries:

480 People in Kirtipur Municipality

18,262 People in Godawari Municipality



**18,742
People reached**

4. Emergency WASH and Disaster Risk Reduction

Under the thematic program “Disaster Risk reduction”, ENPHO implemented **3 projects** with the support of UNICEF Nepal and Oxfam benefitting **3,36,641 people**.

This year, ENPHO carried out two new project which focused on COVID-19 response. These projects were carried out with the support of UNICEF and Oxfam. One of the project funded by UNICEF focuses on improving the WASH facilities at health care centers. The other project, funded by Oxfam focuses on improving hand hygiene at of community people of Mahalaxmi Municipality, Lalitpur.

ENPHO, with the support of Oxfam carried out PURNIMA project which succeeded in developing 9 disaster resilient and gender friendly water supply schemes in earthquake affected communities of Southern Lalitpur.



4.1 WASH and COVID-19 Response Program

Status: Ongoing

Project Partner:	UNICEF
Project Area:	Six Hospitals located at Bagmati Province (Bir Hospital, Civil Service Hospital, Bhaktapur Hospital, Dhulikhel Hospital, Teaching Hospital and Birendra Sainik Hospital)
Project Duration:	March 2012 to September 2020

Aim:

- To support for the continuation of WASH essentials (Drinking water, sanitation and hygiene) in communities for the prevention of COVID-19.

Project Description:

Nepal is considered at high risk due to its location to the global “hotspots” for COVID-19 pandemic. Reaching communities across Nepal with critical information on personal hygiene is crucial as improving, reinforcing and sustaining long-term good hygiene practices such as handwashing with soap is the only measures to break the transmission of COVID-19.

UNICEF being a Nepal Governments’ co-lead

agency in WASH sector is working closely with the government stakeholders in providing technical support for preparedness and response. In respect to COVID-19 preparedness and response, UNICEF in partnership with ENPHO has mobilized its capacities to address the needs of WASH in hub hospitals identified by Nepal Government.

The program focuses on immediate preparedness and response needs for COVID-19 in regards to Water, Sanitation and Hygiene. The program supports in strengthening WASH facilities and services at hub hospitals to ensure the continuation of essential WASH services (drinking water supply, sanitation and handwashing) in the time of emergency. Similarly, it supports for information and communication activities to raise awareness, knowledge and understanding among general population about the risk and potential impact of the pandemic, including social distancing measures, health promotion, social mobilization, stakeholder engagement and community engagement.



Project Outputs:

- Conducted WASH Assessment in seven hospitals which included Bir Hospital, Bhaktapur Hospital, Civil Hospital, Armed Police Hospital, Patan Hospital, Teku Hospital and Dhulikhel Hospital to know the existing WASH situation in the HCF.
- Oriented 69 staffs from UNICEF local partner organization on WASH and COVID-19 using virtual platform.

- Oriented 89 Sanitation workers on WASH & COVID-19 including IPC which included Fecal Sludge Operators, Private Tanker Operators and Solid Waste Collectors. Overall, 89 service providers were oriented.
- Trained 38 hospital staffs on WASH and IPC emphasizing on importance of disinfecting techniques and personal safety.
- Developed WASH and COVID-19 Orientation Packages targeting Partner organization staffs and service providers
- Organized orientation on COVID-19 and WASH in Health Care Facility
- Delivered WASH materials in hospitals as listed below:

WASH Materials	Quantity	Hospitals
▪ Handwashing Station	1 nos	▪ Bir Hospital, Bhaktapur Hospital, Dhulikhel Hospital, Civil Hospital
	2 nos	▪ Armed Police Hospital (APF)
▪ Hand Sanitizer Stand	4 pcs	▪ Bir Hospital and Bhaktapur Hospital
	3 pcs	▪ Civil Hospital and Dhulikhel Hospital
	10 pcs	▪ Armed Police Hospital (APF)
▪ Hand Sanitizer	100 pcs	▪ Armed Police Hospital (APF)
▪ Waste bin	200 pcs	▪ Armed Police Hospital (APF)
▪ Pedal Operated Handwashing Station	5 nos	▪ Bhaktapur Hospital and Civil Hospital
▪ 1% Chlorine	50 Liter	▪ Armed Police Hospital (APF)

Major Achievements:

- Information sharing and awareness raising on COVID-19 through Video message, posters, and information boards/forex.
- Ensuring proper WASH services at health care centers providing the supplies and improvements based on need assessment.
- Capacity building of own staff, service providers/implementing partner at federal/provincial/local level through online orientation
- Knowledge Management through development of training manuals, orientation packages and documentation.

Beneficiaries:



334573 people reached

4.2 Post-Earthquake Reconstruction WASH in Nepal (PURNIMA)

Status: Ongoing

Project Partner:	Oxfam
Project Areas:	Bagmati Rural Municipality, Mahankal Rural Municipality, and Konjyosom Rural Municipality (Rural Municipalities of Southern Lalitpur), Lalitpur district, Province 3.
Project Duration:	Sept 2018-May 2019 (Extended to June 2019)-Lot3 May 2019- March 2020 (Extended to July 2020)-Lot 4

Aim:

- To contribute to gender responsive sustainable recovery and reconstruction among vulnerable earthquake affected communities by providing them with safe, adequate and sustainable water.

Project Description:

In order to provide access to safe, adequate and sustainable water supply services to the most vulnerable and excluded households of earthquake affected communities, PURNIMA project is working at the three Gaupalikas (Rural Municipalities) of southern Lalitpur: namely Bagmati Rural Municipality, Mahankal Rural Municipality, and Konjyosom Rural Municipality. In line with DFID and MM, Oxfam in Nepal has provided the financial support for the implementation of the project.



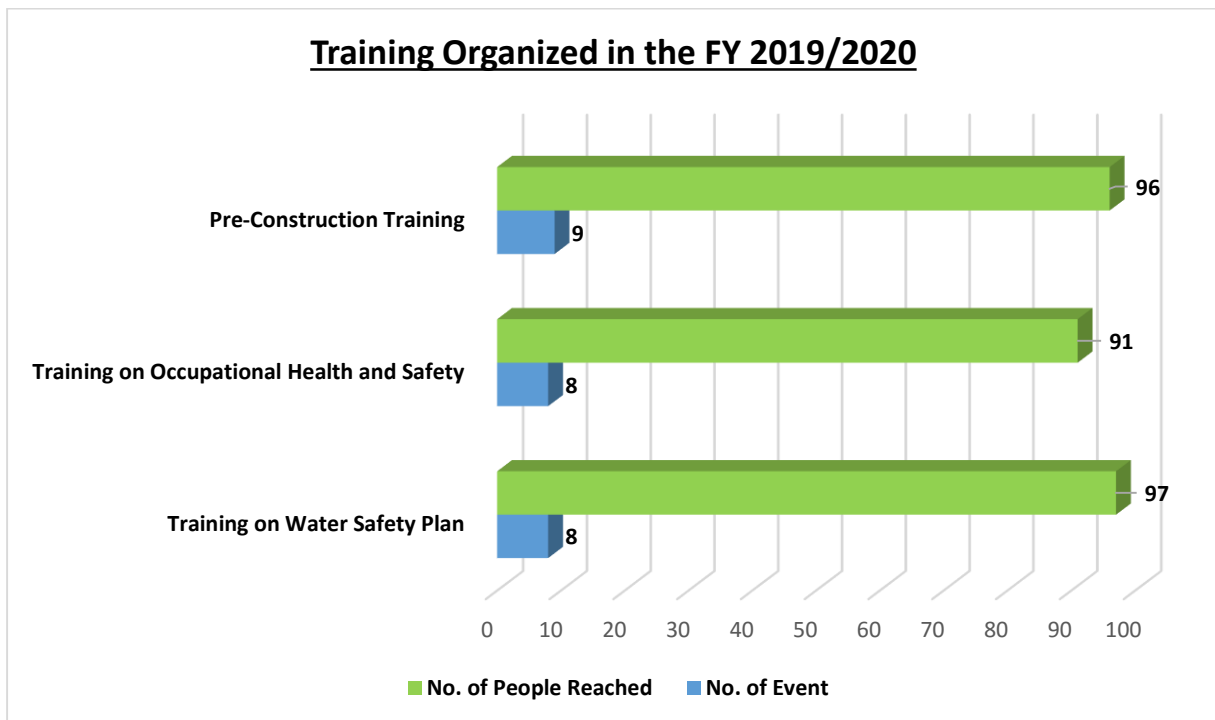
Rehabilitation and construction of sustainable disaster resilient and gender friendly water supply systems are the major objectives of this project. PURMINA project is a phase-wise implementation project, where ENPHO get to implement Lot 3 and Lot 4 phase of the project. The Lot 4 phase focuses on development and construction of 9 water supply schemes. Apart from constructing disaster resilient and gender friendly water supply schemes, various programs for institutional capacity development of WSS were also conducted.

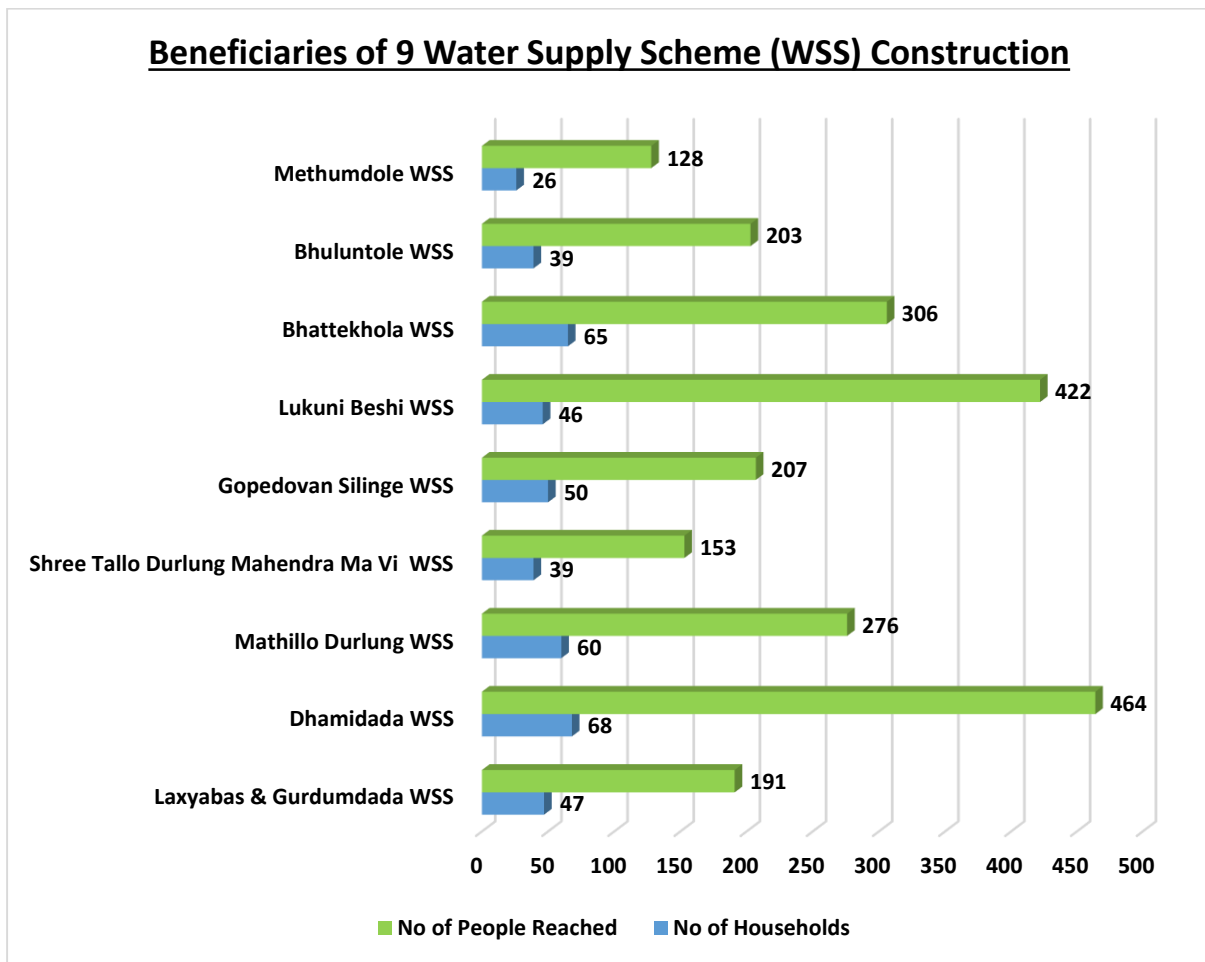
Project Outputs:

- Developed 9 disaster resilient and gender friendly water supply systems;
- Developed 9 Water Supply Schemes Water Safety Plans and are being applied
- Institutional capacity developed as following:
 - 9 Water Users Committee (WUC) registered;
 - 91 people trained on Occupational Health and Safety Measures (OHS);
 - 96 people trained on pre-construction;
 - 97 people trained on waters safety plan development.

Major Achievements:

- Trained 83 WUC on roles and responsibilities related to planning, implementation, O&M and Water Safety Plan (WSP);
- No cases and incidence of safety issues have been registered in Safety Assurance and Information Boards which were installed during construction.
- Increased ownership, management and sustainability of the schemes through water tariff and monthly payment system.
- Authorities from rural municipalities and local communities more dedicated and concerned for the sustainability of the constructed schemes.





Beneficiaries:

Bagmati Rural Municipality: **728** people reached

Mahankal Rural Municipality: **1291** people reached

Konjyosom Rural Municipality: **331** people reached



440 Households

2068 People Reached

4.3 Hygiene and Behaviour Change Coalition (HBCC)

Status: Ongoing

Project Partner: Oxfam,
Funded by: DFID/Unilever
Project Area: Mahalaxmi Municipality, Lalitpur District
Project Duration: November 2019 to November 2020

Aim:

This project focuses on improved prevention and reduction of COVID-19 infection risk focusing on the most vulnerable regions and populations and also with other approaches.

Project Description:

Nepal, first reported the COVID-19 case in January 2020, and the graph of COVID-19 cases increases from March 2020. With this, the spread of COVID-19 has been rapid and people are at high risk of developing and spreading the disease in the community and further increase public health threats.



In response to this, ENPHO with the support of Oxfam has been implementing “Hygiene and Behaviour Change Coalition (HBCC) at Mahalaxmi Municipality, Lalitpur. Adopting Mum's Magic Hand (MMH) tools as a one of the effective tools for behaviour change in regard to handwashing, this project focuses on prevention and reduction of COVID-19 infection risk focusing on the most vulnerable regions and populations.

Project Outputs:

- Sustained improvement in hygiene and health behaviours that limit the spread of Covid-19
- Gender norms promote equal distribution of hygiene and health related care work among women and men at the household and community level

Major Achievements:

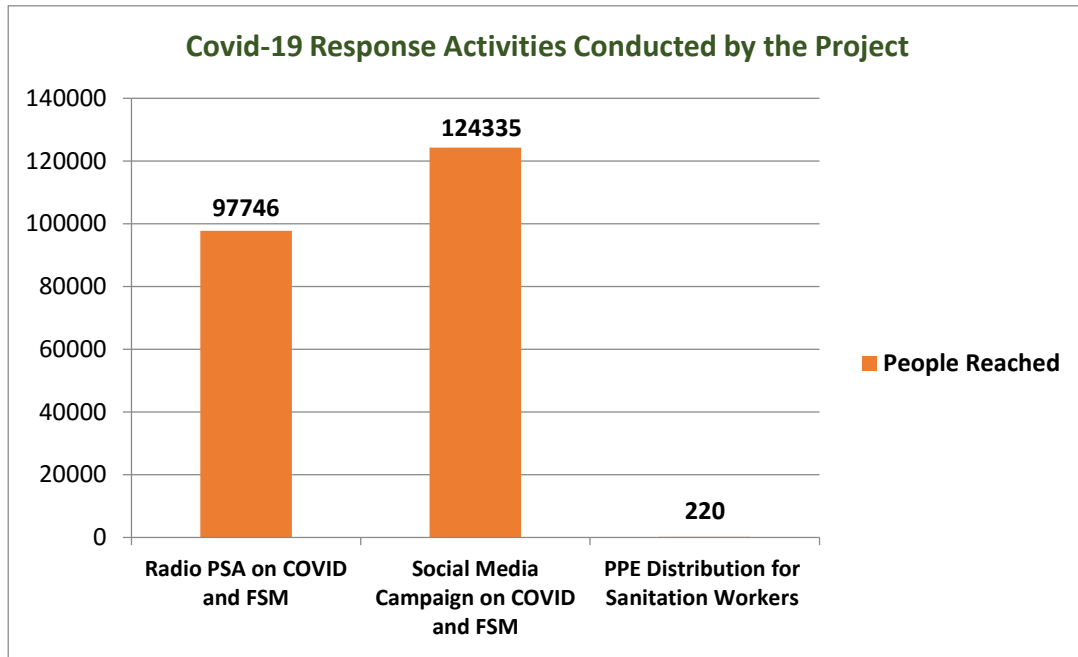
- Completed baseline assessment
- Pretested Mum’s Magic Hand (MMH) story board at community level

Beneficiaries:

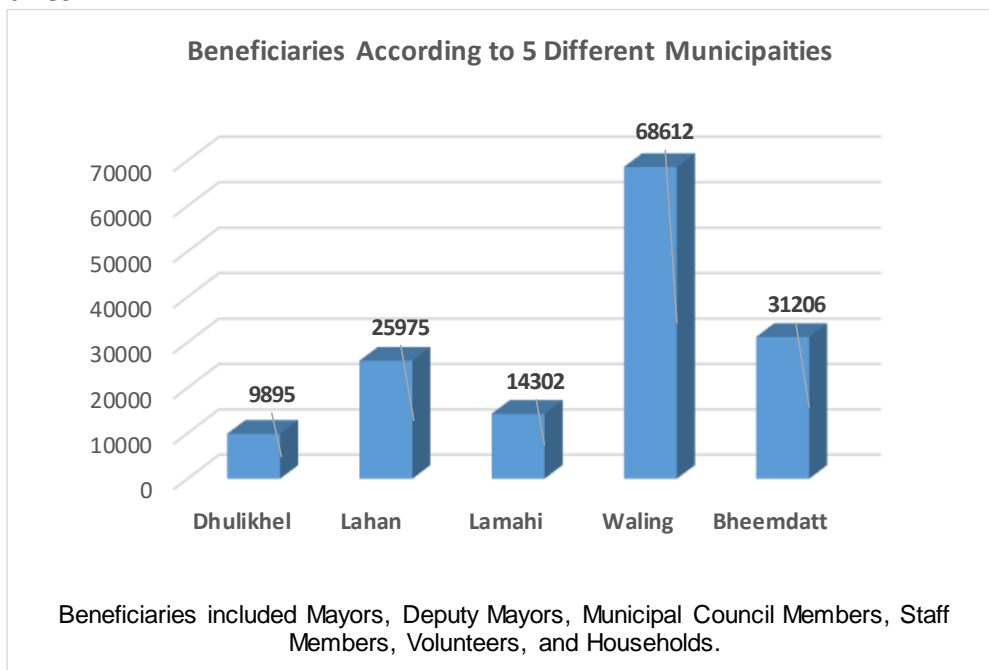


1000 HHs

COVID-19 Response Activities at a Glance



Beneficiaries:



5. Research and Development

5.1 Manufacturing and Marketing EC-Kits in Nepal

Status: Completed

Project Partner: Eco Concern Pvt. Ltd., Massachusetts Institute of Technology (MIT), Abdul Lalif Jameel Water and Food System Lab (J-WAFS)

Project Area: Kathmandu

Project Duration: September 2018 to August 2019

Aim:

- To manufacture and market the *E. coli* and coliform (ECC) vial

Project Description:

With an estimated 44,000 children under five years dying every year in Nepal from waterborne diseases, children are considered as the vulnerable age group susceptible for water borne disease occurrence. Sophisticated equipment and facilities are unavailable and inaccessible for detecting pathogens in drinking water. With the serious problem of faecal contamination in drinking water in human settlements not only in Nepal, but throughout South Asia, the demand for simple kits are high. To consider this, easy-to-use methods for assessing water quality are urgently needed. Releasing the need of easy, potable and affordable faecal testing kit, Eco Concern in collaboration with ENPHO and MIT under J-WAFs funding has developed and launched the new ECC vial which is capable to detect *E. coli* and other coliform in the water sample. The vial is now supplied through medical and grocery stores.



Project Outputs:

- Developed New *E. coli* and coliform (ECC) testing vial;
- Developed Standard Operation Procedures (SOP) for production of ECC vial;
- Vial tested in different climatic zones in Nepal;
- Prepared User's manual for using ECC vial;
- Conducted customer satisfaction survey;
- Body Belt incubator customized to incubate the vial;
- Carried out validation study of the vial;
- Packaging of ECC vial;
- Launching of ECC vial.

Major Achievements:

- Developed easy, affordable and portable *E. coli* and coliform testing vial (ECC vial)
- Launched the ECC vial in the market.

5.2 Data Collection Survey on Water Supply and Sanitation Management of Major Cities of Nepal**Status: Ongoing****Project Partner:** Japan International Corporation Agency, JICA**Project Areas:** Dharan, Itahari, Kalaiya, Jitpur Simara Nepalgunj, Ghorahi, Dhangadi, Tulsipur sub-metropolitan city, Bharatpur and Biratnagar Metropolitan city**Project Duration:** November 2019 to November 2020**Aim:**

- Review the current situation of water supply and waste management in major urban cities and explore feasible investment as well as improvement plan that can be considered by development partners

Project Description:

With the support of JICA, ENPHO is implementing 'Data collection survey on Water Supply and Sanitation Management of Major Cities of Nepal' project.

The major objectives of the project are as follows:

- To collect data on existing situation of water supply and wastewater management including current coverage, need, demand and supply situation and its gaps.
- Analyze the situation of water supply, onsite sanitation and wastewater management of the targeted large cities as appropriate considering socio-economic and demographic context, institutional and environmental factors as such exploring possible future support as well as improvement plan.

Project Outputs:

- Completed household survey to collect sanitation status at Biratnagar Metropolitan, Dharan sub-metropolitan, Tulsipur sub-metropolitan, Ghorahi Sub-metropolitan and Nepalgunj Metropolitan city;
- 80 water samples from various sources and taps were collected and analyzed from 10 above mentioned major cities.
- Collected preliminary data on 18 water supply schemes from Itahari, Biratnagar, Ghorahi, Tulsipur and Nepalgunj.



6. WASH and Nutrition

6.1 Suaahara II

Status: Ongoing

Project Partner: USAID/HKI

Project Areas:

Province 1 : Sankhuwasabha, Bhojpur, Solukhumbu, Taplejung, Panchthar districts

Province 3: Dhading, Rasuwa, Nuwakot, Sindhupalchowk, Dolakha districts

Province 4: Gorkha, Myagdi, Baglung, Lamjung, Syangja, Nawalparasi (West), Nawalpur districts

Province 5: Nawalparasi (East), Kapilvastu, Rupandehi, Gulmi, Argakhachi, Palpa, Rukum, Dang, Rolpa, Pyuthan, Bardiya, Banke districts

Province 6: Dailekh, Jajarkot, Rukum west, Salyan and Surkhet districts

Province 7: Bajura, Darchula, Baitadi, Achham, Dadeldhura, Bajhang, Doti, Kanchanpur and Kailali districts

Project Duration: May 2016 to April 2021

Aim:

To improve nutritional status of women and children in Nepal

Project Description:

Suaahara II is a five-year, comprehensive, community focused multi-sectoral nutrition program aiming to improve health and nutritional status of the people, particularly that of 1000 days women and their children. The program works under consortium approach in which ENPHO has been contributing to achieve Intermediate Result 1.2 -“Household Adopts Essential WASH Actions”.



In this fiscal year, the program particularly focused upon four major activities; providing technical assistance in contributing for national ODF campaign, provide technical assistance

and support local GoN bodies to attained healthy home status contributing to total sanitation movement in Nepal, promote two key priority behaviors; water treatment and hand washing through its frontline workers and social media platforms and collaborate with private sectors actors to scale up establishment of WASH marts to improve access of affordable WASH products in remote areas. Additionally, *Suaahara* II has also implemented Risk Communication and Community Engagement activities to support GoN preparedness and response to the COVID-19 pandemic and to mitigate risk of COVID-19 in the working districts.

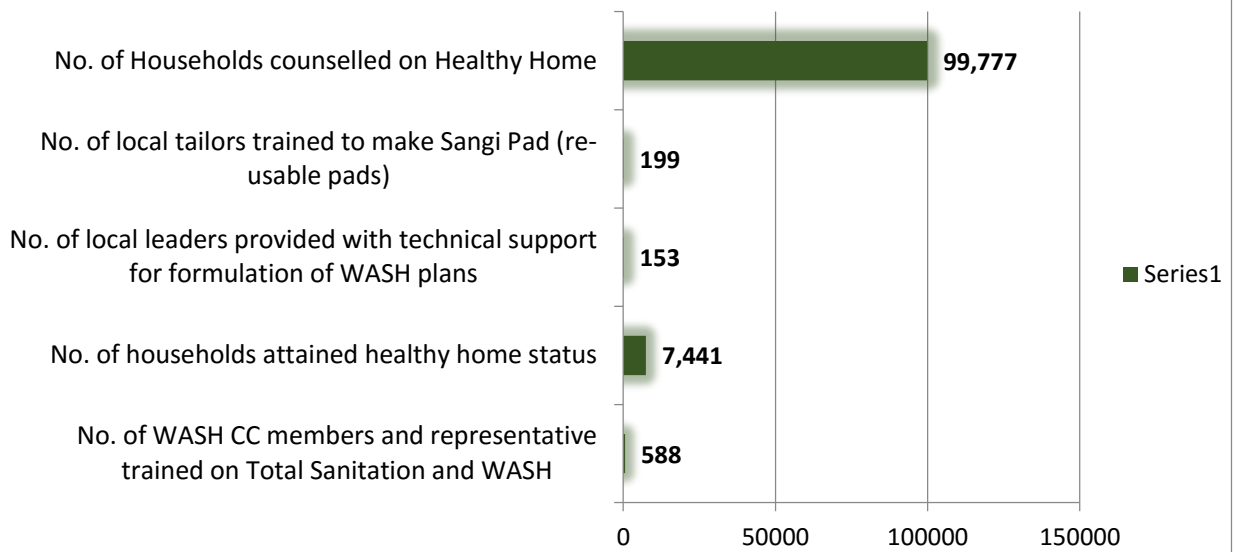
Project Outputs:

- Provided technical support and facilitation to increase improved sanitation facilities for national ODF campaign;
- 86,884 community people reached through 3,818 WASH triggering and orientation events and counselled more than 99,777 households through home visits on healthy home behaviors;
- Trained 588 newly-elected bodies/ WASH CC members and MNSP stakeholders from 23 districts (Panchthar, Dhading, Dolakha, Nuwakot, Sindhupalchowk, Gorkha, Lamjung, Myagdi, Nawalparasi-East, Nawalparasi-West, Arghakhachi, Bardiya, Dang, Gulmi, Kapilbastu, Palpa, Rupandehi, Dailekh, Salyan, Achham, Bajhang, Dadeldhura, Kailali) on total sanitation;
- 153 local leaders from 6 municipalities of 6 districts (Achham, Baglung, Bajura, Myagdi, Palpa and Nuwakot) were provided with technical support for formulation of WASH plans;
- 199 local tailors have been trained to make re-usable sanitary pads ;
- Explored, identified and collaborated with private sectors to strengthen WASH supply chain thereby improving access to affordable WASH products in remote areas;
- Reached 1,232,635 households through COVID-19 response activities and provided tele-counselling on hand hygiene, respiratory hygiene and other COVID-19 related WASH behaviors.

Major Achievements:

- Five districts; Kapilvastu, Sindhupalchowk, Dolakha, Solukhumbu and Bhojpur attained ODF through technical support of *Suaahara* II
- Four wards of three districts (Kwholasothar RM-7 and Kwholasothar RM-8 of Lamjung, Galkot M-5 of Baglung and Kamalbazar M-6 of Achham) have been declared Total Sanitation Oriented Healthy Home Wards.
- Altogether 7,441 households have attained healthy home status including households in four healthy home declared wards;
- 333 new WASH marts were established to increase excess of affordable WASH materials like water filter, soap, toilet cleaning materials etc. at local level.

No. of Beneficiaries through activities conducted in FY 2019/2020



7. Capacity Building on WASH

With the support of CAWST/GAC, WaterAid Nepal, ENPHO conducted **2 projects** under the program “Capacity Building on WASH”, benefitting **4,53,243 people**. This thematic program aims to build the local capacities on WASH for the improvement in access to safe drinking water and sanitation facilities.

The project “Reconstruction and Resilience of WASH Services through Capacity Building in Nepal” is being implemented in five districts severely affected by earthquake and have capacitated **2,160 people** on WASH, to deliver the key messages to improve the WASH behaviour of the community people. Likewise, with the support of WaterAid Nepal, Functional WSUCs that are better able to implement Water Safety Plans and manage Water Supply Schemes. Additionally, Local government has an established mechanism to address the demands of communities in relation to WASH services



7.1 Water Security and WASH Resilience

Status: Completed

Project Partner: WaterAid Nepal, Community Development Forum (CDF)
Project Areas: Ward No. 1, 5 and 6 of Kalinchowk Rural Municipality; Ward No. 3, 4 and 5 of Sailung Rural Municipality
Project Duration: April 2019 to September 2019

Aim:

- To ensure access to safely managed WASH services with sustained hygiene behaviour practices and capacities to manage their WASH needs even in the disaster thereby enhancing water security and to support government's priority program on development of water supply and sanitation.

Project Description:

In order to contribute to achieve sustainable goal on water and sanitation by 2030, basic level WASH facilities need to be promoted to safely manage the situation with acquaintance of innovation along with capacity enhancement at local level. According to Department of Sanitation and Sewerage, 2016 the water supply has estimated to be 87% and sanitation coverage is 98.8% (DWSS, 2018). However,



access to safe water and improved sanitation in Nepal is confronted by various challenges. Dolakha has 86.8% water supply coverage (DWSS, 2017) and 99% sanitation coverage (NSHCC, 2017). However, with the consultation with district offices and participatory community discussions in the district revealed that there are several severe issues in functionality of the water supply systems, water quality, water source depletion, sustainability, hardships in access to water and sanitation. For this, achieving and sustaining ODF status of the district and moving towards total sanitation, enhancing functionality and sustainability of the water supply systems are still the key issues that need to be addressed in the district.

ENPHO, together with local NGO CDF, implemented the 'Water Security and Climate Resilience' project in partnership with WaterAid Nepal, to ensure access to safely managed WASH services through capacity enhancement and sustained hygiene practices to manage the WASH need of the community. For enhancing the water security and to support government's priority program on development of water supply and sanitation, the project aimed to work in the disaster situation as well. ENPHO provided the technical support to CDF for the delivery of sustainable WASH services to the targeted wards of Kalinchowk and Sailung Rural Municipality.

Project Outputs:

- Business Plan for 3 Water Supply Schemes(WSS) and WASH Plan for 2 Rural Municipalities has been drafted;
- 5 events of Ward level workshops formulation of WASH plan were conducted;
- 10 people trained on water and waste management through kitchen gardening;
- 2 trainings on Water Safety Plan were conducted for Water Scheme Users Committee.

<p>Training on Water Safety Plan for WSP Team</p> <p>2 event Beneficiaries: 42 people</p>	<p>Training on Water and Waste Management through Kitchen Gardening</p> <p>1 event Beneficiaries: 10 people</p>
<p>Ward level workshop for formulation of WASH Plan</p> <p>5 events Beneficiaries: 108 people</p>	<p>Business Plan for WSS drafted</p> <p>3 WSS Beneficiaries: 351 HHs</p>
<p>WASH Plan for Rural Municipalities</p> <p>2 Rural Municipalities Beneficiaries: 13829 HHs</p>	

Major Achievements:

- Vulnerable and marginalized people are aware of their rights and have equitable access to safely managed water services at the household, community and school levels;
- Functional WSUCs that are better able to implement Water Safety Plans and manage Water Supply Schemes;
- Rural Municipalities have prioritized WASH including DRR in their annual plans and budgets;
- Local government has an established mechanism to address the demands of communities in relation to WASH services;
- Schools have inclusive and functional Sanitation and hygiene facilities;
- Target communities and schools are aware and are practicing total proper hygiene behaviors;
- Schools which are trained on WASH Resilience are prioritizing WASH in their School Improvement Plans.

Beneficiaries:



59468 people reached
(**29532** female and **29936** male)

7.2 Reconstruction and Resilience of WASH Service through Capacity Building in Nepal

Status: Ongoing

Project Donor:	Global Affairs Canada (GAC)
Project Partner:	Centre for Affordable Water and Sanitation Technology
Project Area:	Earthquake affected districts: Dolakha, Kavrepalanchwok, Sindhupalchwok, Nuwakot and Dhading
Project Duration:	January 2017 to December 2020 (Extended)

Aim:

- To equip 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.

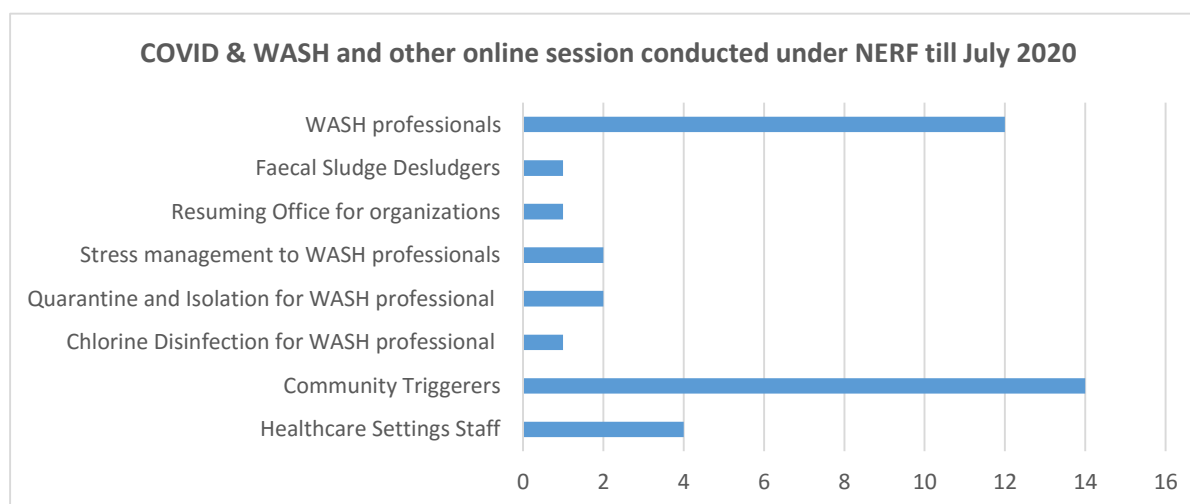
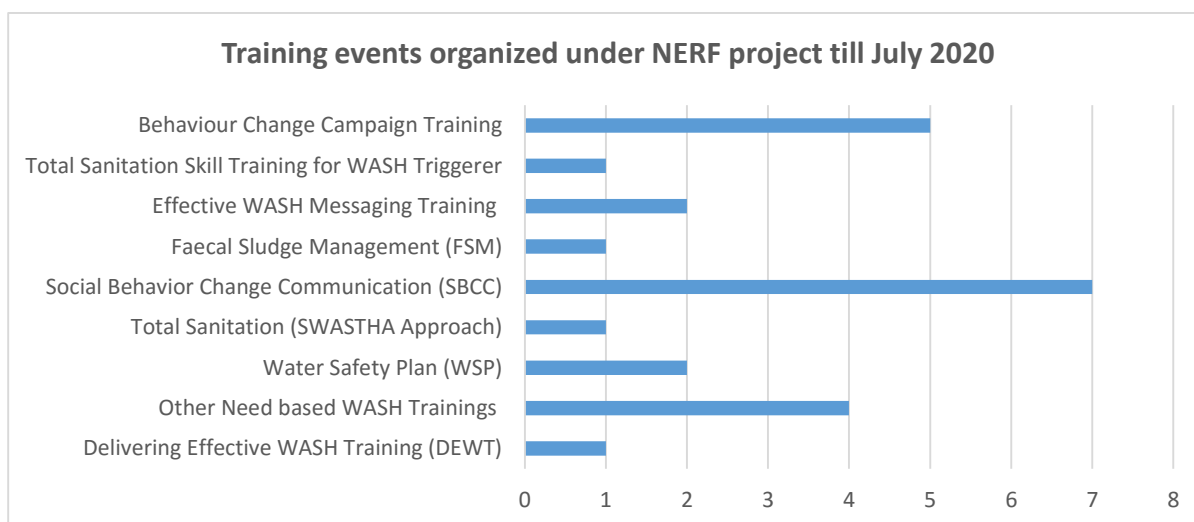
Project Description:

This project is being implemented by ENPHO with the support from GAC and CAWST to enhance the capacity of local organizations on technical aspect of WASH and message delivery so that community people can be influenced to improve or change their WASH behavior. The project is being undertaken in five earthquake affected districts namely Dolakha, Kavrepalanchwok, Sindhupalchwok, Nuwakot



Project Outputs:

SN	Activities	Target	Progress till July 15, 2020	Participant/ beneficiary/ Remarks
1	Training package development	44	50	Include 21 online orientation package on COVID and WASH
2	IEC material development	20	33	Poster, flex and pamphlets
3	Training events	94	102	1410
4	Online sessions (COVID and WASH)	32	38	560 participants
5	Webinar (COVID and WASH)	0	3	190 participants
6	Learning exchange	3	2	58
7	Virtual learning exchange	0	2	52
7	Institutional Case study	6	4	Individual 4 organization
9	Success Stories	0	10	2 per district



Training package/education material development and distribution

- Developed 6 training package and 12 online packages
- Developed 20 types of education and 22 types of IEC materials
- Distributed 45 training material bag, 3,582 education material and 45,000 poster and pamphlets to local organizations

Training and follow up

- Organized 38 training events for 567 participants
- Conducted 20 consultation support to individual and organization
- Carried out 18 training follow up events for training participants and participating organizations

Demonstration and implementation

- Implementation of Model Healthy Community (MHC) approach in five district to demonstrate integrated effort to achieve complete WASH practice at household level
- Established 3 mini lab in district level to demonstrate feasibility of water quality testing at district level.
- Completed baseline for model healthy community and annual survey
- Implemented Behaviour Change Campaign (BCC) applying BCD model focusing on filter use and clean toilet in the five project district targeting 75,000 households.

Major Achievements:

- Altogether 5 communities (one community in each district) having 1,014 households declared as Model Healthy community in the presence of local government and district level organizations. This was declared after meeting 15 indicators of WASH practices in each household.
- The behavior change campaign able to ensure proper filter use in 23,228 households, use of clean toilet in 31,612 households and proper hand washing station in 23,483 households.
- Three water quality testing mini labs established in there different project district in coordination with local organization in business model and two mini labs already started their service.
- ENPHO Training Centre experienced intensive implementation of behavior change campaign in Behaviour Centric Design (BCD) model which has increased confidence level of the team to implement such campaign in another area.



Beneficiaries:



2,160 people capacitated (Direct)
3,91,615 people capacitated through trained human resource (Indirect)

8. Knowledge Management

8.1 ENPHO Training Centre

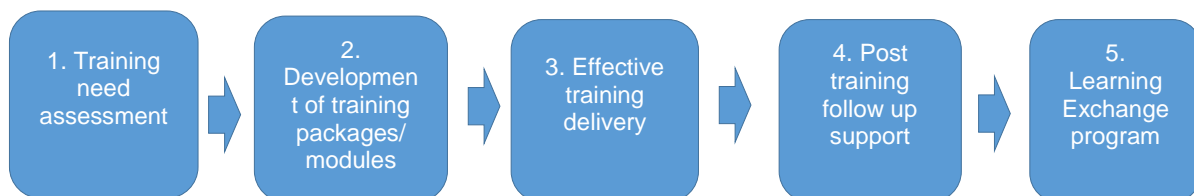
Environment and Public Health Organization (ENPHO) provides a learning platform that designs and delivers professional training programmes using innovative tools for capacity development at community and organizational levels. Since its establishment, ENPHO has been focusing on transferring innovative solutions, approaches, knowledge and skills at various levels through capacity building interventions.

Under the Knowledge Management Division, ENPHO Training Centre Unit has been conducting the capacity building programs for the community people and organizations on various WASH approaches, technologies and solutions. This unit aims to enhance the capacity of communities, organizations and stakeholders at national and international levels through trainings, technical support, consultations, monitoring and evaluation and follow-up programs.



Services provided by ENPHO Training Centre

ENPHO Training Centre provides a range of services from training need assessment to learning exchange for WASH practitioners to meet its objective. The major services are as follows;

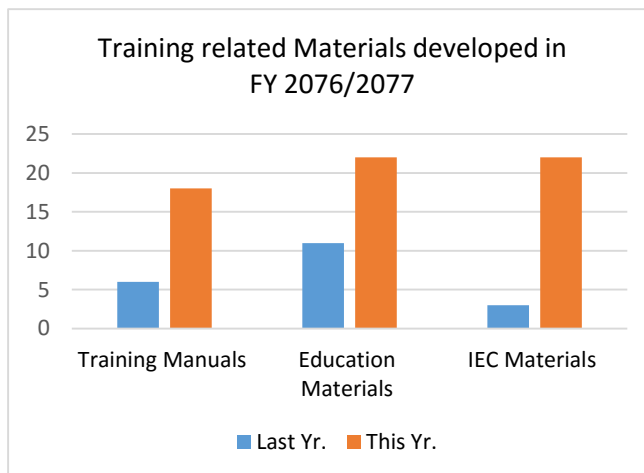


1. Training Need Assessment

Training need assessment is the initial step to develop new training module or package to make the package more relevant and practical. ENPHO Training Centre conducts training need assessment through surveys, meetings, training demand and the needs generated from projects. Based on this assessment, training centre decide to whether develop or adapt or modify the training package.

2. Development of Training Packages/Modules

Training package/modules is a guide for the trainer for effective messaging to specific target audience with different activities. It maintains the flow and consistency of the messages. Trainer manual, participant manual and required training materials are the three major parts 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. In the fiscal year 2076/77, altogether 18 training packages including online packages, 22 types of education materials and 22 types of IEC materials including short videos have been developed by the unit for effective implementation of MHC and BCC campaign in the field. Developed materials are equally useful for WASH implementing organization.



After outbreak of COVID 19, training centre team more focused on developing different packages and required materials to support local organization to cope with the situation and build their capacity to respond the situation in the field level. Interactive online sessions relating to COVID 19 and WASH were carried out. Short video on consisting message on COVID-19 and WASH behaviours like handwashing, social distancing, chlorine preparation and surface disinfection, were also made and shared through social media.



Altogether, there are 50 training packages including online sessions ready to deliver with necessary training materials in different topics of WASH.

3. Delivery of Trainings

Effective training delivery is one of the core functions of the training center unit. The training center unit delivers trainings in participatory way by creating safe learning environment so that the participants can explore their skills and enhance their knowledge. The training events specifically focus on the ways through which the participants can effectively impart information to the targeted groups by applying participatory tools and techniques.

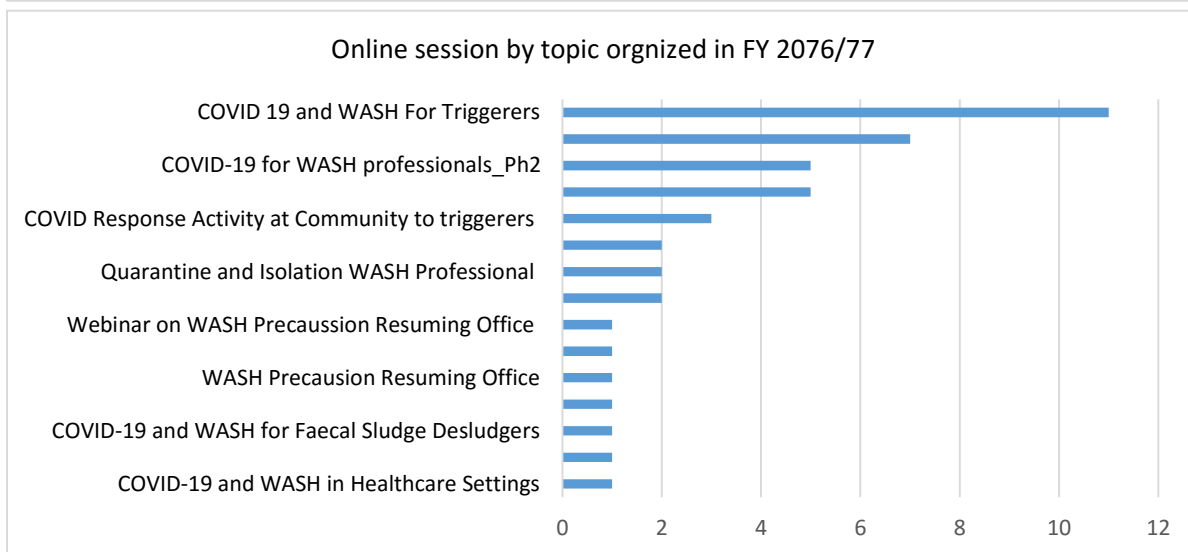
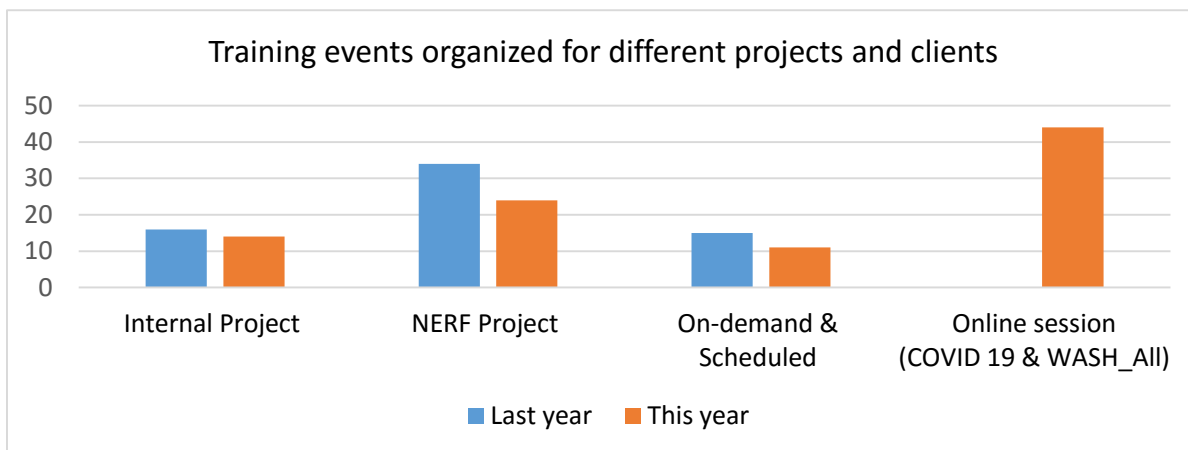
Training Centre delivering training on the basis plan based training event and demand based training event. Generally, it can be categorized into:

- i. **Scheduled training:** Scheduled trainings are annually pre-planned by ENPHO Training Centre and announces call of such trainings through ENPHO’s website and Facebook page. Participation cost is applicable for this type of trainings.
- ii. **On-demand training:** On-demand trainings are executed upon the request received from various WASH implementing agencies which includes local organizations, NGOs and INGOs. Normally implementing agencies organize the event and Training Centre trainer

deliver exiting training package or customized as per need. The organizer provide technical charge for the training support.

- iii. **In-house project trainings:** In collaboration with various partners, ENPHO implements various projects on WASH. ENPHO Training Centre conducts trainings planned in these projects and calls it as in-house trainings.

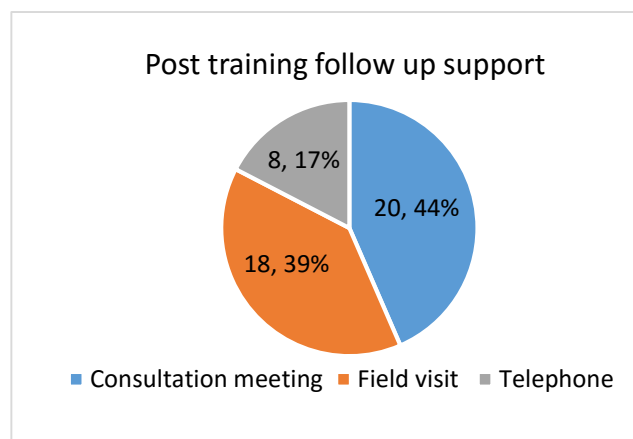
ENPHO Training Centre successfully delivered 93 training events including online sessions for different projects and clients in FY 2076/77.



Altogether, 276 female and 291 male WASH professional representing 7 GOs, 1 INGOs, 37 NGOs/CBOs and 9 individuals were trained on different WASH topics. Similarly, female 210 female and 356 male participants were trained through 44 online sessions on COVID 19 & WASH and other related topics as follows;

4. Post Training Follow up support

As in previous year, the unit has been continuously providing post training follow up support and technical consultation support to WASH project implementers in the district through problem solving meeting, coaching & mentoring, field visit and telephone conversation. In FY 2076/77, altogether 46 times of consultation support provided to different organization.



5. Learning Exchange

ENPHO Training Centre annually organizes a learning exchange event for WASH implementing organizations as a platform to share and learn through the experiences sharing. Due to the COVID 19 pandemic, this training centre shifted its face to face learning exchange plan to virtual learning exchange and successfully hosted two events if virtual learning exchange with international participants with learning sharing presentation. The virtual learning exchange events were more focused on initiations against COVID 19 pandemic and learnings to make it more effective while replicating. Altogether 48 participants from 11 training centres attended the events which included Sehgal Foundation - India, WASH SDO - Combodia, ACK- Kenya, AFMAC- Zambia, EKHDCDC- Ethiopia, FRPG – Colomdia, PWW- Honduras, CAWST- Canada.



Also, training centre hosted a two days learning exchange for the team of 10 participants from Bangladesh whih included special learning sharing session and field visit. The team included executive committee member of Mymensingh City Corporation including mayor, OXFAM Bangladesh, World Vision International and NGO Forum for Public Health.

Major Achievements:

- Reached out **3,91,615 population** (filter use 1,16,140, use of clean toilet 1,58,060 and hand hygiene 1,17,415) directly through implementation of Model Healthy Community (MHC) and Behaviour Change (BCC) campaign in NERF project implemented districts.
- **Trained 6,332 participants** from 142 organizations through training and orientation organized by training centre directly.
- Widened the range of training package adding **5 new WASH packages** to meet the WASH capacity need of WASH implementing organization.
- Generated NPR 8,72,815/- revenue as technical charge for training delivery and package development support.
- Prepared **21 new online orientation packages related to COVID 19 and WASH** to respond COVID 19 pandemic.



8.2 ENPHO Resource Centre

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

ENPHO Website

Information on ENPHO's work, its projects, WASH technologies, awareness and advocacy related activities, IEC materials along with other updates on WASH are available on ENPHO's website - www.enpho.org. To support in raising awareness on prevention of global pandemic of COVID-19 disease, this year, a dedicated page COVID-19 has been created on website to provide information on COVID-19 response activities, IEC materials developed by ENPHO and information related to COVID-19.

Publications and IEC Materials

ENPHO Resource Centre collects, produces and disseminates various publications and IEC materials on WASH and its technologies with an objective of providing the information on WASH to various targeted audiences. Every year, this unit also publishes the Annual Report of the organization which provides updates on the progress and the projects and programmes implemented by ENPHO in that particular fiscal year. Besides the IEC materials and the reports, the 'Special Bulletin' is published every year on the occasion of World Toilet Day, 'Advocacy Bulletin' is published to highlight the advocacy initiatives of ENPHO in the sector of WASH and ENPHO's E-Bulletin to provide monthly updates on projects and programmes. ENPHO's IEC materials have been requested and used by Nepal Government, UN Agencies and other various INGOs and NGOs to use in their projects to provide information on WASH in the community.

This year, in addition to materials related to WASH, several WASH and COVID- 19 prevention related IEC materials were also developed by ENPHO to support nationwide campaign for prevention of COVID-19 disease. Various posters, flyers and audio/visual materials were developed to disseminate information on preventive measures to reduce risk of diseases among general public. Thus produced materials are being disseminated through website, various social media and during intervention of project activities. Altogether, 100 publications and IEC materials have been published in the FY 2019/2020.

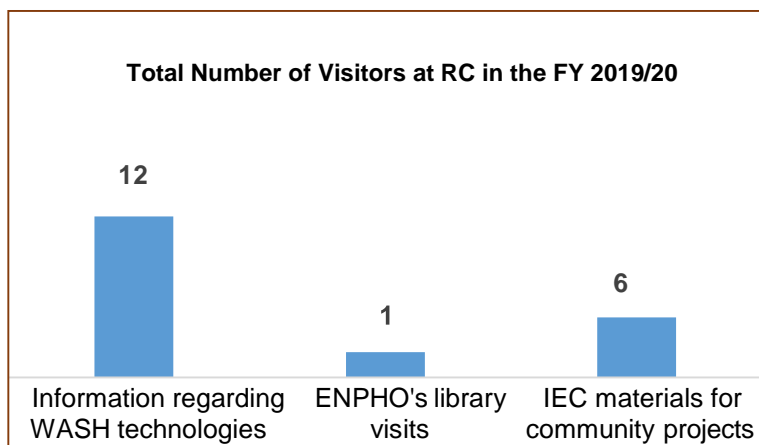
Refer [Annex IV](#) for the glimpses of publications published in the FY 2019/20.

ENPHO Library

The Resource Centre also manages library where books, reports, journals, research documents, IECs 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.

Visitors at RC

ENPHO RC welcomes students, researchers, INGO/NGOs staffs, teachers, and individuals to learn about ENPHO’s activities, WASH technologies, study available documents, reports and get IEC materials support. This FY, 19 visitors (12 people for information regarding WASH technologies, 1 for ENPHO’s library visit and 6 for IEC materials support) visited Resource Centre.



ENPHO Hall

ENPHO has a bright, spacious and airy hall with seating capacity for 50 which can be used for conducting trainings, meetings and workshops. The hall is well equipped with projector and sound system. This ENPHO hall is also provided to various organizations 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, other environmental concerns and emergency responses.

ENPHO is the member organization in following different civil societies and technical forums:

- Network member for Consortium for DEWATS dissemination (CDD) in South Asia
- Member of NGO Forum for Urban Water Supply and Sanitation
- Core member in Coalition for Clean Environment (CCE)
- Sub-committee member of National Steering Committee for preparation of Interim National Policy on Arsenic in Drinking Water.
- Technical committee member on Drinking Water Quality for NBSM.
- Member of expert group for preparation of Arsenic testing protocol formulation - NAST/National Arsenic Steering Committee.
- Technical Committee Member for different environmental quality and lab issues for NBSM.
- Member for Development of Drinking Water Quality Standard, DWSS
- Network member in Resource Center Network Nepal (RCNN).
- Member of National WASH Cluster.
- Member of National Sanitation and Hygiene Coordination Committee.
- Network member of Sustainable Sanitation Alliance (SuSanA).

Social Media Campaign

ENPHO Facebook page shares and provides updates on our work including information on WASH related issues across the globe. The information are shared through news, videos, photos, flyers stories etc.

This year, a new Facebook page: ‘**WASH for Healthy Life**’ has been created which intends to change the WASH behaviors of community people across Nepal for healthy living. This is an initiative of ENPHO for WASH Behaviour Change.

This year, posts related to COVID-19 preventions were also shared through the page to raise awareness and disseminate appropriate messages to general public. Many social media campaigns were carried out to provide appropriate and updated information on COVID-19 to the specific targeted groups.

This year, ENPHO's page had 12.K+ Likes reaching **12,612 Likes** whereas WASH for Healthy life had 645 likes in total.



Advocacy Campaign

The Resource Centre unit is also involved in various advocacy efforts to campaign on pertinent WASH, environment and health issues through various advocacy campaigns, interaction programs, workshops, dramas, wall paintings, mass orientations, research and exhibitions. Every year, ENPHO celebrates Global Handwashing Day, World Toilet Day, World Water Day, Menstrual Hygiene Day, World Environment Day and National Sanitation Action Week by organizing various events to raise awareness on the issues and mark the days. Special bulletin, highlighting the emerging and crucial sanitation issues and the relevant technologies, findings and approaches, is published annually on the occasion of World Toilet Day.



LSF for Professional and Personal Growth of Staffs

ENPHO provides opportunities for professional and personal growth for any and all staff members. One of the opportunities is Learning and Sharing Friday (LSF), which includes capacity building opportunity, information sharing, and professional and personal development sessions. It's also the platform for staff members for sharing respective expertise with ENPHO family. Altogether, 3 LSFs were conducted in the fiscal year 2019/20 and till date, 73 LSF sessions have been successfully conducted.

ENPHO Paschim Paaila

Paschim Paaila, is a youth led network striving towards creating epidemic free Nepal since 2009. ENPHO is providing secretariat for Paschim Paaila. The dedicated and engaged youth at Paschim Paaila is ready to prepare, respond and mitigate disasters and epidemic through WASH education, awareness, and research and advocacy activities.

In this FY 2019/20, Paschim Paaila was involved in different advocacy campaigns, day celebrations, awareness campaigns, networking and partnerships, and other new ventures.

Day Celebrations:

Paschim Paaila, with the support of ENPHO and other various organizations, celebrated Global Handwashing Day 2019, World Toilet Day 2019, World Water Day 2020, Menstrual Hygiene Day 2020, National Sanitation Week and World Environment Day 2020 and International Youth Day 2020. More than 2000 people were reached through handwashing day campaign, more than 2000 people through World Toilet day celebration programs, more than 500 people through World Water Day celebration programs, more than 2500 people through Menstrual Hygiene Day celebration programs,



Beneficiaries from Day Celebration Events:



No. of volunteers mobilized in various day celebration events: 40



People Reached: More than 7,650 people

College Campaign

College campaign on “Youth, WSH and SDG” is campaign to raise awareness and empower youth. The 2 events of the campaign in this FY 2019/20 at NAMS College on 18 and 20 December , 2019 reaching 54 students with WASH messages.

Advocacy:

WASH Forum Reloaded:

Since 2010, Paschim Paaila has been organizing an interaction program “WASH Forum” to share information on WASH, health and environment to the youths since 2010. In 2019, Paschim Paaila came up with new series of WASH Forum as ‘WASH Forum Reloaded’ focusing on entrepreneurship in WASH and Web Series of Interaction.

Workshops/Trainings:

Paschim Paaila has been organizing various capacity building events such as Youth WASH Concern Workshop, Learning-Sharing and Orientations to empower youths, children and community people.

Trainings/Workshops Organized	No. of Events	Target Audience	Number of Beneficiaries
Youth WASH Concern Workshop	1	Youth	11
WASH-CO Workshop	2	Youth	70
Homemade Sanitary Pad Making Training	1	Community People	16
Orientation on WASH	2	Children and Youths	67
Learning-Sharing	3	PP Team	25



Volunteer Mobilization:

Paschim Paaila volunteers participated in various campaigns and events organized by ENPHO under various projects and programs. Altogether, 59 volunteers were engaged in various projects and events.

Partnership and Networking:

Paschim Paaila Batch

Paschim Paaila has initiated to form Paschim Paaila (PP) batch from April, 2019. Altogether, three batches with five members in each batch have been formed. Each batch member has to commit to work with PP regularly for at least six months. The third batch was formed in January, 2020. Altogether, 10 females and 5 males have been involved in these three batches.

7 New Partners

(Youth Clubs, I/NGOs, Government Organizations and Hospitals)

21 New Reach

(Community, School, College, Hospital and Orphanage)

Paschim Paaila in COVID-19 Response:

Paschim Paaila youth volunteers actively engaged in various social media campaigns to raise awareness on COVID-19 and its prevention benefitting more than 20,000 people. Amongst various campaigns, Mask-Mandu Campaign is one. It is a youth led initiative to sensitize and aware the general public on the proper use of masks and promotes safe hand hygiene behaviour to prevent the spread of SARS-CoV-2. This is a collaborative youth-based campaign that will be organized with any individual/youth clubs/network following public health standards set by the Government of Nepal for the prevention of COVID-19. This campaign also aims to utilize and mobilize the energy of youth to prevent the spread of COVID-19.



Beneficiaries from Mask-Mandu Campaign:



No. of volunteers mobilized in various day celebration events: 5



No. of people reached: More than 1250 people (till August 13, 2020)

9. Laboratory and Production Division

The rate of addition of harmful and/or synthetic chemicals into the environment can only be described as rapid and outpacing the removal rate of the same substances. Be it through everyday used household appliances, food and beverage additives or agricultural products, one way or another the chemicals have made its way to the environment and have escalated the pollution levels – a scenario not quite different from the global trend. In addition, owing to the fast-paced yet haphazard nature of urbanization within developing countries, inadequate levels of water quality assurance and sanitation and waste management practices are being implemented. This has in turn created pathways for microbial contamination, which is of primary public health importance especially due to the great majority of water related health burdens that are associated with it. The detection and quantification of such microbial and chemical parameters should be of utmost priority since they ultimately enable formulation of robust and locally applicable strategies and water quality management plans.

ENPHO Laboratory

The Environment and Public Health Organization (ENPHO) laboratory has been accredited under the NEPLAS criteria (Based on ISO 17025) by the Nepal Bureau of Standards and Metrology, Government of Nepal. Beginning from 1990 and continuing till even today, water, wastewater, air and soil quality measurements have been the primary mode of provision of analytical services to those seeking them. Furthermore, the prime objective of the laboratory is to technically facilitate a wide array of projects to contribute to ENPHO's unwavering efforts to achieve the goal of ensuring healthiness and eco-friendliness within various Nepalese societies. This laboratory, therefore, exists as a platform for development and research advancements in water, sanitation and environment.

Services

- Water and wastewater quality testing and monitoring
- Provision of household level water chlorination options
- Air and soil testing
- Research and development of environmentally beneficial and microbial technologies

Laboratory unit of ENPHO is well equipped with sophisticated instruments like atomic absorption spectrophotometer (AAS), ultra violet (UV) spectrophotometer, double distillation unit, four digital 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 DelAgua 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 ENPHO water quality test kit, free residual chlorine (FRC) kit, Coliform Presence/Absence (P/A) vial, *E. coli* and coliform (ECC) vial and water disinfecting chlorine solutions like Piyush, Piyush Plus, 1% Chlorine and other products like Swachcha Silver Candle filter and ENPHO body belt incubator.

The milestones of lab and production division are:

- Pioneered in raising awareness on the need of air and water quality monitoring in Nepal.
- Conducted ambient air quality monitoring through different stations within the Kathmandu valley as a collaborative effort with the Ministry of Environment.
- Introduced arsenic field test kits and water quality field test kits for the first time in Nepal.
- Contributions to research and development of Kanchan Arsenic Filter.
- Covered all 77 districts of Nepal in terms of water quality tests.

Achievements of fiscal year 2019/20

ENPHO Laboratory's persistent efforts to contribute to a healthier and sustainable future can be reflected through a variety of its research and development activities it has carried out. The laboratory and production division has conducted different research and project activities in this fiscal year as well.

Project: Manufacturing and Marketing EC-Kits in Nepal

With the aim of developing the easy, affordable and potable coliform testing vial, Eco Concern Pvt. Ltd. in collaboration with ENPHO and MIT has developed new *E. coli* and coliform testing vial (ECC vial) which is capable to detect *E. coli* and other coliform in the water sample. ECC vial is the upgrade version of Coliform Presence/Absence (P/A vial) which can detect the *E. coli* and coliform simultaneously. The shelf life study of the vial is ongoing. The project is funded by J-WAFS.

Project: Technical Assistance for Water Quality Testing and Quality Assurance in Nepal Multiple Indicator Cluster Survey (NMICS) 2019

The Multiple Indicator Cluster Survey (MICS) is an international household survey programme developed by UNICEF.

Nepal MICS (NMICS), 2019 had included water quality testing module to generate the valuable data water quality data of water that is actually being consumed within the households in Nepal, in terms of Arsenic and *E. coli*. For the same, ENPHO Lab provided technical assistance in various activities which includes pre-testing of the MICS 2019 water quality monitoring kit, revision of the manual for water quality testing with illustrations, translation of the manual into Nepali language, training of measurers for field water testing and providing technical support for monitoring and ensuring quality of water quality testing activities.

Project: Water Quality Test & Analysis for Implementation Phase of B-X (Gravity (GR), Surface lift & STW Schemes); Rural Water Supply and Sanitation Improvement Project, Batch X, Package 1, Implementation Phase

Rural Water Supply and Sanitation Project is a demand led community based project funded by Government of Nepal. Water quality monitoring is one of the several activities within this project. Under this project, the water quality assessment of Batch X schemes under Implementation Phase –Package 1 was assigned to CEMAT/ENPHO Joint Venture. The project aims to conduct water quality analysis of thirteen districts of eastern and central development region of Nepal. The project area includes Dhankuta, Ilam, Jhapa, Panchthar, Tehrathum,

Bhojpur, Udayapur, Khotang, Sankhuwasabha, Okhaldhunga, Sindhuli, Dhanusha and Mahottari districts. Altogether 492 samples from seven districts were collected by ENPHO Lab to assess 19 water quality parameters, namely pH, taste, odor, electrical conductivity, turbidity, color, total dissolved solid, total alkalinity as CaCO₃, iron, calcium, ammonia, fluoride, nitrate, chloride, total hardness as CaCO₃, Manganese, Arsenic (only for Tube Well Schemes), Total Coliform and *E. coli*. Langelier Saturation Index (for gravity flow schemes) was also determined for the samples of gravity flow schemes. Sanitary inspections were carried out for all kinds of sample sources to identify possible source of contamination if any.

Apart from above mentioned projects, ENPHO lab had received 80 samples for analysis of different parameters under JICA project and more than 200 samples for analysis under ISO project.

The following section lists the details of the number of samples analyzed, kits and reagents sales in the FY 2019/2020.

Type and number of samples analyzed at ENPHO Laboratory during FY 2019/2020.

S.N.	Type of sample	Number of Samples analyzed
1	Total Drinking water Samples	2800
	Corporate Client	673
	Eco Concern Project	954
	ENPHO Project	988
	Individual Client	185
2	Total Wastewater Samples	56
	Corporate Client	40
	Eco Concern Project	12
	Individual Client	4
3	Total Sludge Samples	307
	Corporate Client	273
	Eco Concern Project	27
	ENPHO Project	7
4	Total Quality Control Samples	506
	Lab Quality Control	352
	Product Quality Control	146
	Field Blank	6
	ILC Sample	2
5	Total Research Samples	279
	Lab Research	91
	Product Research	188
6	Total Other Water Samples	64
	Corporate Client	42
	Individual Client	22
7	Total Algae Samples	9
	Individual Client	9
8	Total Compost Samples	5
	Corporate Client	2
	Eco Concern Project	3
	Grand Total	4026

Type and number of products sold during the FY 2019/2020.

S.N.	Name of products	Unit	Number of units sold
1.	Piyush	pcs	109309
2.	Piyush Plus	pcs	31027
3.	1% Chlorine	liters	3668.3
4.	Coliform P/A Vial	pcs	28394
5.	ECC vial	pcs	999
6.	ENPHO Water Test Kit	sets	236
7.	ENPHO Body Belt Incubator	pcs	5
8.	FRC Kit	sets	721
9.	Ammonia Test Kit	sets	9

Individual reagents sold during FY 2019/2020.

S.N.	Name of Reagents	Unit	Number of units sold
1.	Ammonia reagent 1	pcs	110
2.	Ammonia reagent 2	pcs	112
3.	Chloride Reagent - 1	pcs	56
4.	Chloride Reagent - 2	pcs	93
5.	Hardness Reagent - 1	pcs	103
6.	Hardness Reagent - 2	pcs	102
7.	Hardness Reagent - 3	pcs	101
8.	Iron Reagent - 1	pcs	85
9.	Iron Reagent - 2	pcs	85
10.	Iron Reagent - 3	pcs	82
11.	Nitrate Reagent - 1	pcs	85
12.	Nitrate Reagent - 2	pcs	85
13.	pH Reagent	pcs	99
14.	Phosphate Reagent - 1	pcs	67
15.	Phosphate Reagent - 2	pcs	68
16.	ENPHO WTK Reagent Set	pcs	236

The discount of NRs.2,90,908.40 was provided to students, board members, staff and regular client this fiscal year.

10. Planning Monitoring and Evaluation

In the fiscal year 2019/20, PME unit has been engaged in different PME related activities, especially in six different projects; Suaahara II (IR1.2), WASH SDG program- WAI project, Water security and WASH resilience Project, Resilience of WASH services through capacity building- Nepal (NERF) project, Post earthquake reconstruction in Nepal (PURNIMA) project and Integrated Urban Water Management at the center of Municipal Public Services project. Apart from these projects, PME unit have also extended its involvement in other ENPHO projects and initiatives.

Projects monitoring has been carried out at different level. Supervisors have been doing project implementation output level monitoring. Likewise, thematic officers and managers have performed monitoring for progress and result of the projects and programs.

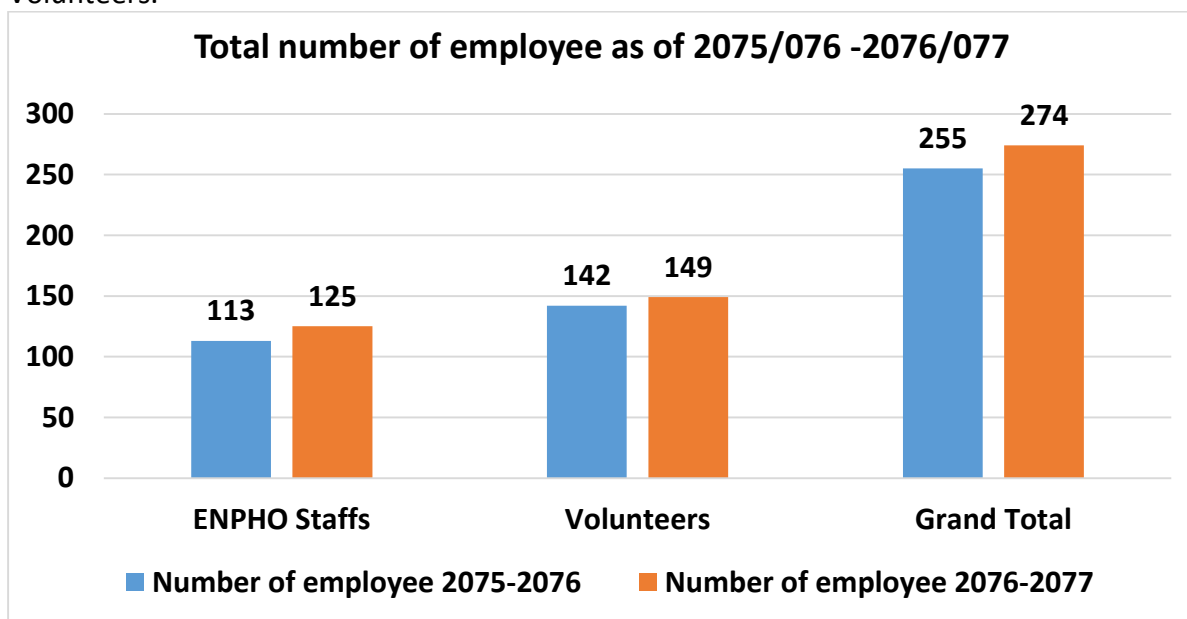
SUAAHARA II PROJECT	<ul style="list-style-type: none"> • Monthly, quarterly, semi- annual and annual DHIS 2 data check and follow up (IR 1.2 WASH part in SII 42 districts) • Quarterly Trained data check (IR 1.2 WASH part from SII 42 districts), its compilation and reporting • Field monitoring visit including Healthy home attained monitoring • Engaged in other SII MER activities (data quality assessment) and quality assurance.
Water Security and WASH Resilience	<ul style="list-style-type: none"> • Participated in review meetings • Supported in TOR translation • Supported in WASH plan Survey checklist reviewing • Participated in PMER refresher workshop
WASH SDG PROJECT	<ul style="list-style-type: none"> • Monitored productive use of waste, and demo improved latrines construction, • Follow up and monthly data check, • Supported in developing SWM assessment questionnaire and conducted orientation to volunteers, • Interviewed and supported in possible entrepreneur selection for Mini lab and WASH marts establishment, • Participated in review and coordination meetings, • Developed and supported in success stories and case studies compilation, • Developed O&M fund mobilization guideline • Developed capacity assessment checklist format • Drafted project bi- annual progress reports • Supported in phase two proposal planning and write up
PURNIMA PROJECT	<ul style="list-style-type: none"> • Participated in review and coordination meetings • Supported in reviewing news update • Reviewed and supported to finalize case studies drafted • Reviewed draft WSP reports developed • Supported in insurance policy collection and communication

<p>NERF PROJECT</p>	<ul style="list-style-type: none"> • Carried out monitoring visit both SBCC campaign and model community. • Supported in developing survey checklist, data analysis and final report of Annual Survey 2019 for MHC community, • Developed detailed survey checklist for MHC community • Developed healthy home indicators and scaling indicators to build model community. • Conducted orientation to enumerators on annual survey 2019, • Participated in experimental learning on Behavior centered design framework under BCC intervention. • Developed brief data validation checklist for BCC intervention
<p>(Integrated Urban Water Management at the center of Municipal Public Services) BORDA PROJECT</p>	<ul style="list-style-type: none"> • Supported in regular communication and PR • Supported to reviewed MoU draft for Godawari Municipality • Supported in drafting quarterly report for Q2 • Supported in updating social media updates on activities conducted under project

11. Organizational Development

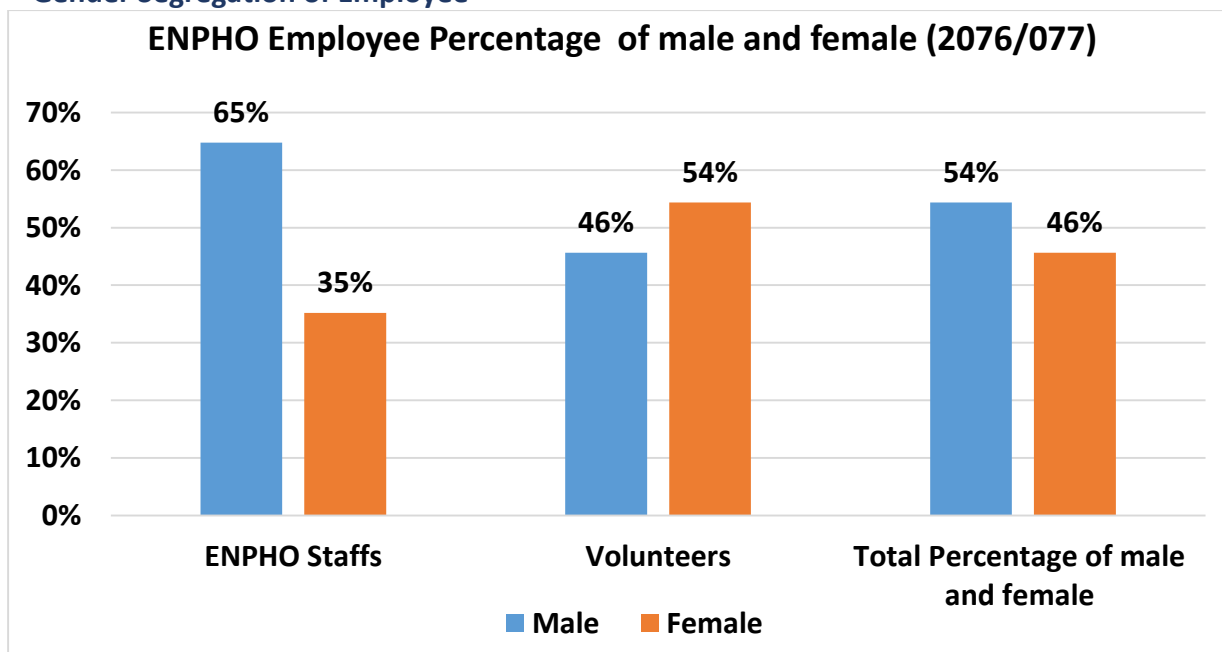
11.1 Human Resource Management:

Human Resource Management (HRM) function is directed by its long-term vision of creating a healthy and safe working environment where employees can flourish and are supported to deliver sustainable organizational performance. This year, ENPHO HR policy has been revised in line with the new labor act endorsed by the Government of Nepal. Human Resource of ENPHO have been categorized into: Regular, Time Bound, Task Based Employees and Volunteers.



Total number of ENPHO’s regular and task-based employees for 2076/077 is 125, which was 113 in 2075/076. Total number of Volunteers for 2076/077 is 149 and in 2075/076 it was 142. Total number of ENPHO employee is 274 in 2076/077 and was 255 in 2075/076. This year, there is a increase of 11% in Regular, Time Bound, and Task Based Employee compared to previous year.

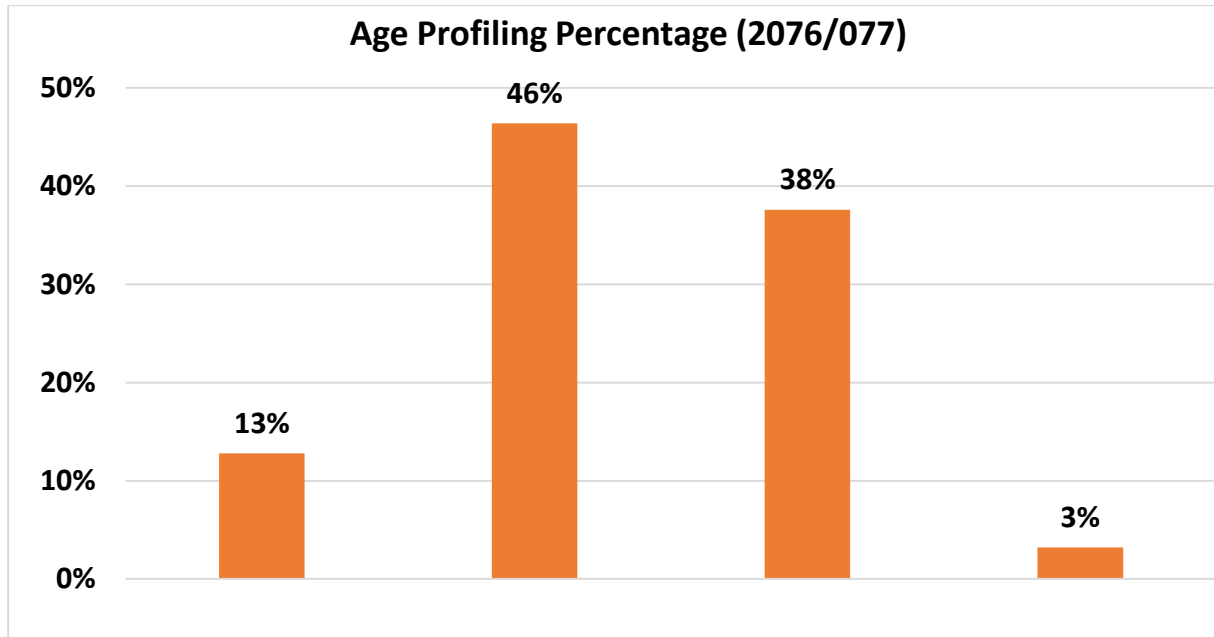
▪ Gender Segregation of Employee



Out of total Regular, Time Bound, Task Based level employee, 35% are female whereas under Volunteer category 54% of total workforce is female. Overall 46% of total employee is female and male comprises 54%.

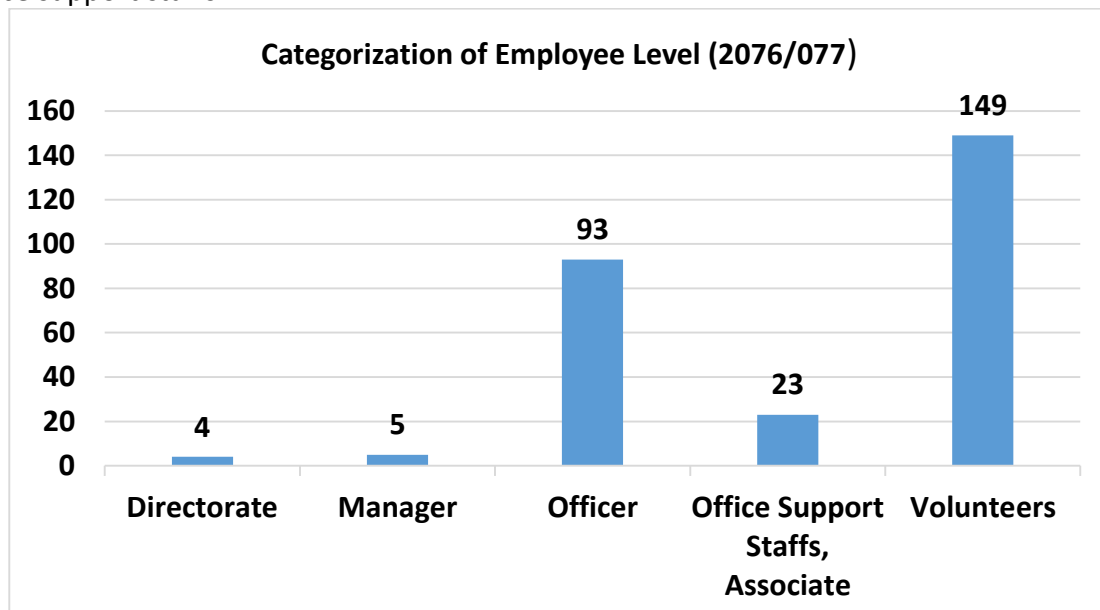
▪ **Employee’s Age Profile**

The age profiling calculation shows that 13% of Regular, Time Bound, and Task Based Employee level staff are between the ages 20 - 30. Whereas 46% of Regular, Time Bound, Task Based Employee level staff is between 31-40 years. Similarly 38% of Regular, Time Bound, and Task Based Employee level staff is between 41-50 years. The average age of ENPHO Regular, Time Bound, and Task Based Employee level staff is 36 years.



▪ **Segregation of ENPHO Employee Level:**

Total of 4 numbers of employee fall under Directorate level and Managerial level staff consists of 5 numbers of employee. Similarly the maximum number of volunteers, in total 149, in total 93 numbers under Officer Level. Total of 23 numbers of employee under associate level and office support staffs.



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.

▪ Exposure at International Level

ENPHO highly encourages 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.

▪ Further Study Opportunities

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

Ms. Prabina Shrestha, Sanitation Engineer at ENPHO has been awarded with the Rotary fellowship program (2019-2020) for Masters in Urban Water and Sanitation from IHE-Delft, The Netherlands.

ENPHO family extend best wishes to Ms. Prabina Shrestha for the successful journey ahead.



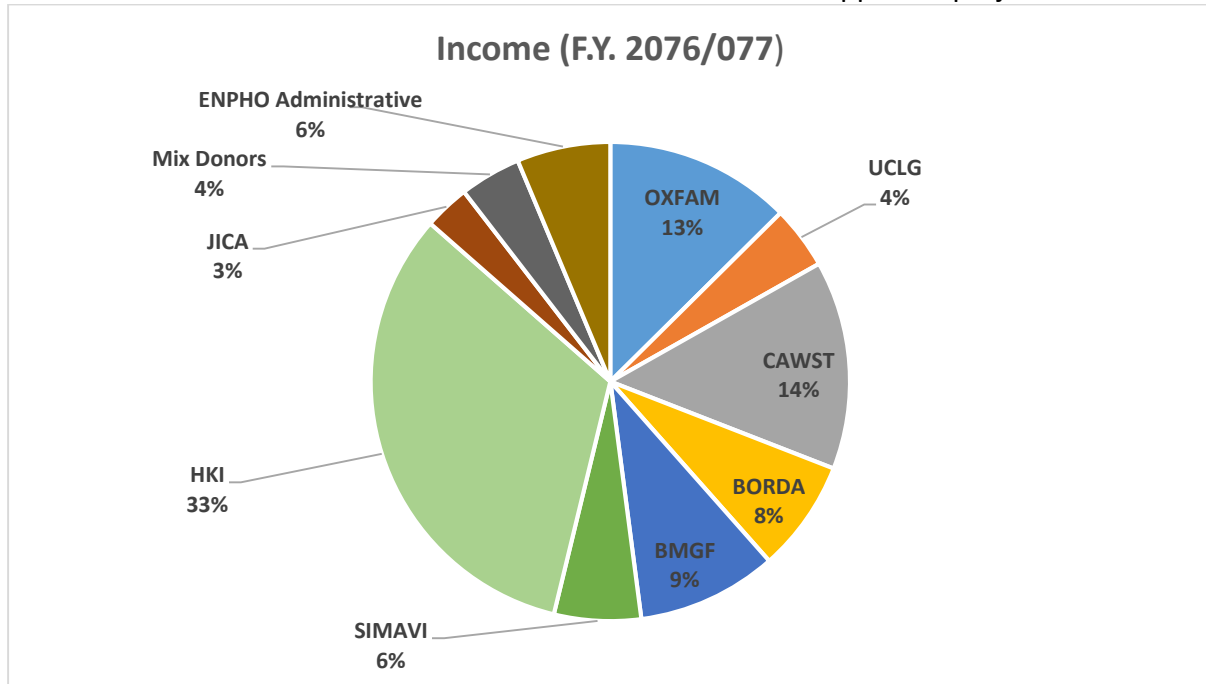
▪ Volunteer and Internship Management

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. 18 volunteers were appointed at ENPHO during the fiscal year 2019/20.

12. Financial Management

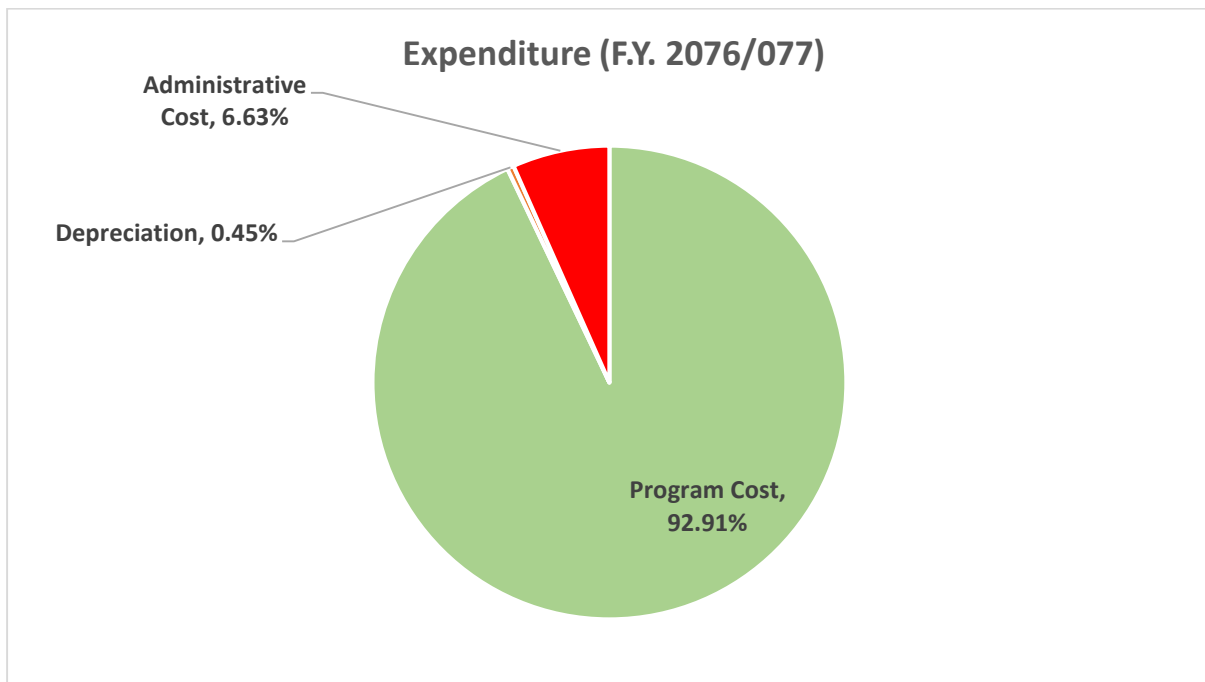
12.1 Income

ENPHO's total income for the year 2019/20 was NRs. 200,775,479.16 (US\$ 1,667,986.04 conversion 1 USD = NRs. 120.37). This is a 6% decrease compared to the total income of 2018/19. The decrease in the total income was observed this year due to COVID 19. The projects' contribution to ENPHO's annual income was 33% from SAAHARA II funded by USAID/HKI, 14% from CAWST, 13% from OXFAM, 9% from BMGF, 8% BORDA, 6% from ENPHO's administrative income & SIMAVI and 4% from UCLG supported projects.

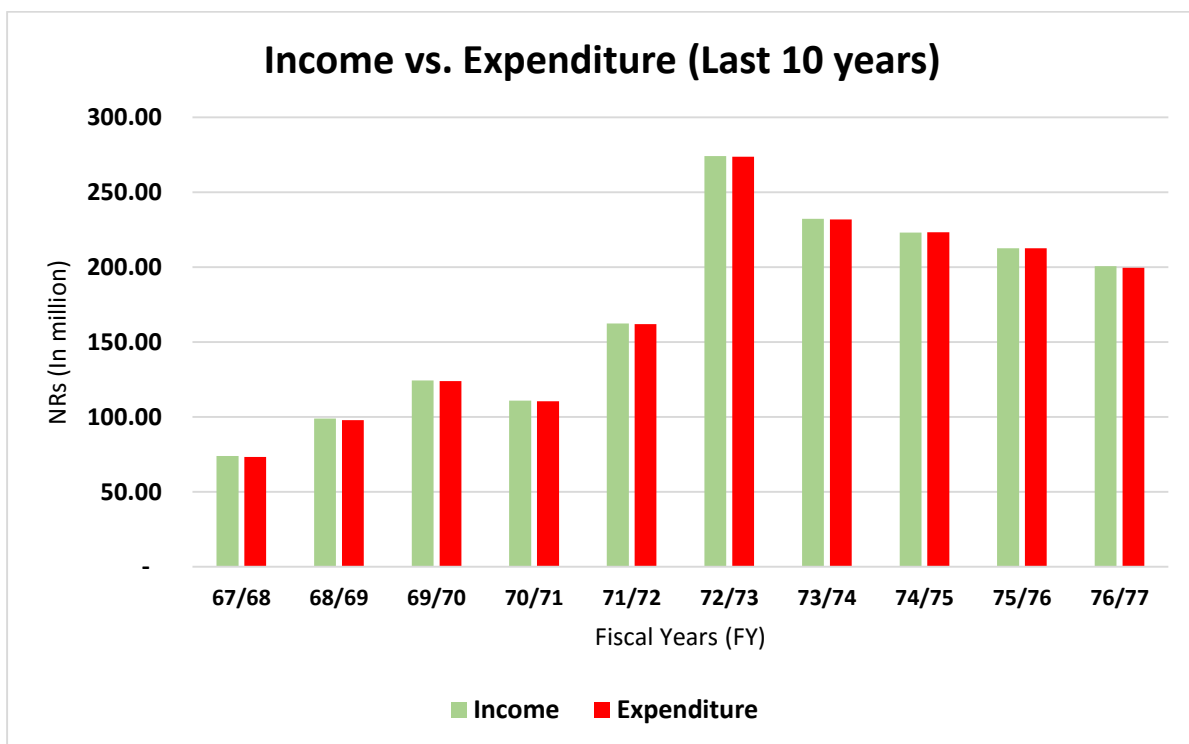


12.2 Expenditure

ENPHO's total expenditure for the year 2019/20 was NRs. 199,568,475.13 (US\$ 1,657,958.59, conversion 1 USD = NRs. 120.37). This is a 6% decrease compared to the previous year's expenditure. Of the total expenditure, 92.91% was spent on various on-going and completed projects/programmes, while 6.63% was spent on administration expenses. The overall distribution of annual expenditure is presented in the following graph.



11.3 Trend in Income and Expenditure over the last 10 Years



Please refer [Annex VI](#) for financial audit report and [Annex VII](#) for proposed budget for fiscal year 2077/078.

ANNEXURES

Annex I: Project List, FY 2019/20

S.N.	Project Title	Program Area/District	Partners	Duration
Water Quality				
1.	Technical assistance for water quality testing and quality assurance in Nepal Multiple Indicator Cluster Survey	All 77 districts of Nepal	UNICEF	December 2018 to December 2019
2.	Biosand sand filter production, promotion, and distribution		Eco - Concern, BiFEAN, ENPHO	September 2018 to September 2019
Sustainable Sanitation				
3.	Supporting the Development of Sustainable Solid Waste Management Strategies for the Mountains Regions of Pakistan, India and Nepal	Ghandruk , Pokhara	Korean Environment Corporation	March 2019 to September 2019
4.	Establishing Specialized technical support and field research center and non - sewerred sanitation for FSM	Madhuban Municipality, Gulariya	BORDA	January 2019 to September 2019
5.	Consulting service for construction of Decentralized wastewater treatment system (DEWATS)	Dhulikhel Hospital, Kavre	Dhulikhel Hospital, Kathmandu University	June 2017 to December 2019
6.	Piloting of FSM Standard in Nepal - Mahalaxmi, Lalitpur as Pilot Municipality	Mahalaxmi Municipality, Lalitpur	Bill & Melinda Gates Foundation, Mahalaxmi Municipality, KVWSMB, NBSM	January 2019 to June 2021
7.	Municipalities Network Advocacy on Sanitation in South Asia	Dang, Siraha, Kanchanpur, Syangja, Kavre	United Cities for Local Government - Asia Pacific (UCLG ASPAC), MuAN	May 2018 to October 2020

Community Based WASH				
8.	WASH SDG Nepal Implementation	Bheriganga Municipality and Barahtal Rural Municipality, Surkhet	SIMAVI Consortium partners : FEDWASUN, BSP Nepal, Lumanti, FSCN	January 2018 to June 2020
9	Integrated Urban Water Management at the Center of Municipal Public Services	Godawari Municipality and Kirtipur Municipality	BORDA	January 2020 to December 2020
Emergency WASH and Disaster Risk Reduction				
10.	Post - Earthquake Reconstruction - WASH in Nepal (PURNIMA)	Mahankal Rural Municipality, Bagmati Rural Municipality, Kongyosom Rural Municipality	Oxfam	April 2018 to July 2019
11.	Hygiene and Behaviour Change Coalition (HBCC) Nepal	Bagmati Province/Lalitpur	Oxfam	June 2020 to March 2021
12.	WASH and COVID - 19 Response 2020	Bagmati Province	UNICEF	30 March to September 2020
Research and Development				
13.	Manufacturing and Marketing EC - kits in Nepal	Kathmandu	ENPHO, Eco Concern Pvt. Ltd., Massachusetts Institute of Technology (MIT), Abdul Lalif Jameel Water & Food System Lab (J - WAFS)	September 2018 to August 2019
14	Data Collection Survey on Water Supply and Sanitation Management of Major Cities of Nepal	Dharan, Itahari, Kalaiya, Jitpur, Simara, Nepalgunj, Ghorahi, Dhangadi, Tulsipur Sub-metropolitan City, Bharatpur and Biratnagar Metropolitan City	Japan International Corporation Agency, JICA	November 2019 to November 2020

WASH and Nutrition				
15.	<i>Suaahara</i> 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, Pyuthan, Rolpa, Salyan, Rukum, Surkhet, Jajarkot, Dailekh, Darchula, Bajhang, Bajura, Doti, Dadeldhura, Baitadi, Achham, Kanchanpur, Kailali (40 districts)	USAID, HKI	May 2016 to April 2021
Capacity Building on WASH				
16.	Water Security and WASH Resilience	Dolakha	Water Aid	April 2019 to September 2019
17.	Reconstruction and resilience of WASH services through capacity building in Nepal	Kavre, Dolkha, Sindhupalchowk, Nuwakot (4 districts)	CAWST, Canada	February 2017 to March 2020

Annex II: List of Executive Board Members (2017 – 2020)

 <p>Mr. Bhushan Tuladhar, Chairperson M.E. in Env. Engineering, bhushan.tuladhar@gmail.com</p>	 <p>Mr. Rajiv Joshi, Vice-Chairperson M.Sc. in Water & Sanitation, rajivjoshi70@gmail.com</p>
 <p>Mr. Prakash Amatya, Treasurer M.Sc. in Microbiology, prakashamatya@yahoo.com</p>	 <p>Ms. Anjali Manandhar Sherpa, Member Secretary M.Sc. in Env. Science, anjali.sherpa@gmail.com</p>
 <p>Ms. Urmila Joshi, Executive Member M.Sc. in Botany, jurmila@gmail.com</p>	 <p>Mr. Pratap Kumar Acharya, Executive Member MBA, pratapacharya9@gmail.com</p>
 <p>Dr. Chandra Lekha Tuladhar, Executive Member Ophthalmologist- Eye Specialist, drlekhatuladhar@gmail.com</p>	 <p>Dr. Kabita Bade Shrestha, Executive Member Ph.D. Geo-statistics, kabitabs@gmail.com</p>
 <p>Dr. Rosha Raut (Khadka), Executive Member Ph.D. in Env. Science, rautrosha@yahoo.com</p>	 <p>Mr. Bipin Dangol, Executive Member M.Sc. in Env. Science, bipin.dangol@enpho.org</p>

Annex III : ENPHO Staff List FY 2019/20

S. N.	Name	Designation
1	Bipin Dangol	Executive Director
Program Division		
1	Rajendra Shrestha	Program Director
2	Prashanna Man Pradhan	Senior Program Manager
3	Keshab Shrestha	I WASH Manager
4	Balram Sigdel	Regional WASH Coordinator
5	Khagendra Bahadur Sijapati	Regional WASH Coordinator
6	Mangal Das Duwal	Regional WASH Coordinator
7	Srijana Shakya	Regional WASH Coordinator
8	Buddha Bajracharya	Project Coordinator
9	Anil Maharjan	Project Officer
10	Bivor Maharjan	Project Officer
11	Merina Maharjan	Project Officer
12	Suma Maharjan	Project Officer
13	Anita Kafle	District WASH Officer
14	Bharat Jung Shah	District WASH Officer
15	Bharat Rijal	District WASH Officer
16	Bikash Banjara	District WASH Officer
17	Binita Adhikari	District WASH Officer
18	Daya Ram Sharma	District WASH Officer
19	Ganesh Bahadur Bhul	District WASH Officer
20	Govinda Prasad Poudel	District WASH Officer
21	Gyan Prakash Yadav	District WASH Officer
22	Jag Bahadur Gharti	District WASH Officer
23	Kamala Sapkota	District WASH Officer
24	Karna Bahadur Balayer	District WASH Officer
25	Kiran Maharjan	District WASH Officer
26	Kiran Prasad Dhungana	District WASH Officer
27	Krishna Prasad Chapagain	District WASH Officer

28	Krity Bajracharya	Documentation Officer
29	Manoj Paudel	District WASH Officer
30	Nava Raj Thapa	District WASH Officer
31	Nim Raj KC	District WASH Officer
32	Rajendra Baral	District WASH Officer
33	Raju Chaudhary	District WASH Officer
34	Ramu Parajuli	District WASH Officer
35	Rekha Rokaya	District WASH Officer
36	Roshan Chaulagain	District WASH Officer
37	Saraswati Puri Bam	District WASH Officer
38	Shankar Bahadur BK	District WASH Officer
39	Sher Singh Bista	District WASH Officer
40	Tej Raj Upadhyaya	District WASH Officer
41	Tika Upreti	District WASH Officer
42	Prakash Gaire	Engineer
43	Santosh Dahal	Engineer
44	Mukesh Kumar Pandit	Engineer
45	Rupak Shrestha	Sanitation Engineer
46	Sushil Nhemhaphuki	Assistant Technical Officer
47	Prabin Karna	Technical Supervisor
48	Arjun Bahadur Bhujel	Technical Supervisor
49	Basanta Jung Shah	Technical Supervisor
50	Dhan Bahadur Thapa Magar	Technical Supervisor
51	Hari Saran Soti	Technical Supervisor
52	Komal Prasad Adhikari	Technical Supervisor
53	Nim Bahadur Budha	Technical Supervisor
54	Surendra Ghimire	Technical Supervisor
55	Ram Bahadur Singtang	Technical Supervisor
56	Purna Bahadur Hamal	Technical Supervisor
57	Shree Krishna Devkota	Technical Supervisor
58	Rockey Tulsibakhya	Field Coordinator
59	Sujeet Shrestha	Field Coordinator

60	Rajesh Byanjankar	Field Coordinator
61	Nirmal Awale	Sr. Social Mobilizer
62	Rama Malla	Sr. Social Mobilizer
63	Bal Krishna Gurung	Social Mobilizer
64	Bel Maya Gurung	Social Mobilizer
65	Pabitra Kathayat	Social Mobilizer
66	Khim Prasad Sharma	Social Mobilizer
67	Sabitra Paudel	Social Mobilizer
68	Niranjana Dulal	Social Mobilizer
Admin and Finance Division		
1	Niranjana Pradhan	Administration and Finance Director
2	Anita Shrestha	Senior Administration & HR Officer
3	Pramila Amatya Joshi	Senior Finance Officer
4	Ani Maharjan	Finance Officer
5	Anup Rajthala	IT Officer
6	Bandana Shrestha	Finance Officer
7	Dharma Prajapati	Logistic Officer
8	Niraj Man Shrestha	Finance Officer
9	Sajal Shrestha	Finance Officer
10	Sarita Shrestha	Finance Officer
11	Alsha Shrestha	Assistant Admin Officer
12	Anita Shrestha1	Assistant Finance Officer
13	Firoz Alam Ansari	Assistant Finance Officer
14	Pramila Maharjan	Assistant Logistic Officer
15	Rajendra Maharjan	Assistant Finance Officer
16	Suraj Swongamikha	Asst. Finance Officer
17	Rajan Pradhan	Senior Administration Associate
18	Kiran Prajapati	Senior Logistic Associate
19	Sabina Magar	Receptionist
20	Chintu Thapa	Driver
21	Binda Khadka	Office Support Staff
22	Gita Chaudhary	Office Support Staff

23	Kamala Khatri	Office Support Staff
24	Raju Khatri	Office Support Staff
Knowledge Management Division		
1	Ash Kumar Khaitu	Training Centre Manager
2	Rosy Singh	Resource Centre Manager
3	Srijana Karki	Senior WASH Officer
4	Chandra Shova Khaitu	EPD Officer
5	Lerica Gorkhaly	Documentation Officer
6	Rohit Kumar Dhakal	WASH Training Officer
7	Shobha Rana	WASH Trainer Officer
8	Subash KC	WASH Training Officer
9	Devendra Khadka	Asst. EPD Officer
10	Hari Bahadur Budhathoki	Assistant Technical Officer
11	Sabuna Gamal	Assistant WASH Training officer
12	Ajay Nakarmi	Field Coordinator
13	Anita Bhujju	Senior RC Associate
14	Ritu Sharma	Senior RC Associate
15	Lasata Manandhar	RC Associate
16	Rabina Milapati	Training Center Associate
PME Division		
1	Yubraj Shrestha	Senior PME Officer
2	Bhintuna Shrestha	Monitoring & Documentation Officer
Research and Development Division		
1	Jagam Shrestha	Senior WASH Officer
2	Binod Chhetri Bhandari	Assistant Research Officer
3	Shreeya Khanal	Assistant Research Officer
4	Sushil Dahal	Assistant Research Officer
Laboratory and Production Division		
1	Amresh Prasad Karmacharya	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
Volunteer		
1	Ambika Bohara	Community WASH Volunteer
2	Amrita Bista	Community WASH Volunteer
3	Ashok Kumar B.K	Community WASH Volunteer
4	Balika Oli	Community WASH Volunteer
5	Bam Bahadur Panadi	Community WASH Volunteer
6	Basant Bohara	Community WASH Volunteer
7	Bashanti Dhungana	Community WASH Volunteer
8	Bhagawati Regmi	Community WASH Volunteer
9	Bhagwati kumari bam	Community WASH Volunteer
10	Bhawana Mala (Budthapa)	Community WASH Volunteer
11	Bhawana Singh	Community WASH Volunteer
12	Bhawani Khanal Bist	Community WASH Volunteer
13	Bhimlal Thapa Magar	Community WASH Volunteer
14	Bhupendra BK	Community WASH Volunteer
15	Bikram Kumar Bohara	Community WASH Volunteer
16	Bimala Giri	Community WASH Volunteer
17	Bimala Kumari Khatri	Community WASH Volunteer
18	Bir Bahadur Bohara	Community WASH Volunteer
19	Bir Bahadur Bista	Community WASH Volunteer
20	Birendra Bist	Community WASH Volunteer
21	Birma Khadka	Community WASH Volunteer
22	Chandra Prasad Adhikari	Community WASH Volunteer
23	Chhaya Dhami	Community WASH Volunteer
24	Chitra Kali Yari	Community WASH Volunteer
25	Damora Jora	Community WASH Volunteer

26	Devi Kumari Puri	Community WASH Volunteer
27	Dhan Bahadur Gadshila	Community WASH Volunteer
28	Dhan Bdr Dani	Community WASH Volunteer
29	Dhana Kumari Neupane(Khanal)	Community WASH Volunteer
30	Dhanamati Gadal	Community WASH Volunteer
31	Dhani Datta Bhatt	Community WASH Volunteer
32	Dhanrupa Kthayat Gurung	Community WASH Volunteer
33	Dila Pun Magar	Community WASH Volunteer
34	Dinesh Bdr Thapa	Community WASH Volunteer
35	Dipa Kumari Mateli	Community WASH Volunteer
36	Dipak Sharma	Community WASH Volunteer
37	Dipendra Bahadur Bohara	Community WASH Volunteer
38	Dudh kala Kumari Bogati	Community WASH Volunteer
39	Durga Thaguna	Community WASH Volunteer
40	Durpata Kumari Jaishi Dhakal	Community WASH Volunteer
41	Durpati Karki	Community WASH Volunteer
42	Gajali Kumari Malla	Community WASH Volunteer
43	Ganesh Bahadur Basnet	Community WASH Volunteer
44	Ganesh Bahadur saud	Community WASH Volunteer
45	Gange Sunar	Community WASH Volunteer
46	Gita Chand	Community WASH Volunteer
47	Gobinda Raj Joshi	Community WASH Volunteer
48	Gomati Katuwal	Community WASH Volunteer
49	Hanshakala Kadhyat	Community WASH Volunteer
50	Harisha Kumar Thapa	Community WASH Volunteer
51	Hark Prasad Jaisi	Community WASH Volunteer
52	Indra Kumari Nepali	Community WASH Volunteer
53	Isha Gautam	Community WASH Volunteer
54	Jalina Sinjali	Community WASH Volunteer
55	Jalu Yaidi	Community WASH Volunteer
56	Janak Bdr B.K.	Community WASH Volunteer
57	Janaki Kalel	Community WASH Volunteer

58	Jayanti Baduwal	Community WASH Volunteer
59	Jayanti Jagari	Community WASH Volunteer
60	Jhuma Bogati Thapa	Community WASH Volunteer
61	Kabi Raj Bist	Community WASH Volunteer
62	Kabi Rawol	Community WASH Volunteer
63	Kalpana Kumari Acharya (Neupane)	Community WASH Volunteer
64	Kamala Kumari Chunara	Community WASH Volunteer
65	Kamala Rokaya	Community WASH Volunteer
66	Karisma KC	Community WASH Volunteer
67	Karna Bahadur Bhandari	Community WASH Volunteer
68	Kaushila Kami (Tamata)	Community WASH Volunteer
69	Kesher Singh Kuwar	Community WASH Volunteer
70	Khadak B.K	Community WASH Volunteer
71	Khagendra Bahadur Buda	Community WASH Volunteer
72	Khema Kumari Buda	Community WASH Volunteer
73	Krishna Bahadur Saud	Community WASH Volunteer
74	Krishna Datta Pant	Community WASH Volunteer
75	Krishna Kumar Gautam	Community WASH Volunteer
76	Kumari Nirmala Bohara	Community WASH Volunteer
77	Lal Bahadur Rokaya	Community WASH Volunteer
78	Laxmi Chand	Community WASH Volunteer
79	Laxmi kumari Buda	Community WASH Volunteer
80	Laxmi Kumari Bhandari Dhakal	Community WASH Volunteer
81	Lila Joshi	Community WASH Volunteer
82	lok Raj Rimal	Community WASH Volunteer
83	Lokendra bahadur Rokaya	Community WASH Volunteer
84	Lokesh Bahadur Khadka	Community WASH Volunteer
85	Madan Bahadur Bist	Community WASH Volunteer
86	Madan Raj Joshi	Community WASH Volunteer
87	Man Bahadur Thapa	Community WASH Volunteer
88	Man Bahadur BK	Community WASH Volunteer
89	Menuka Devi Khatri	Community WASH Volunteer

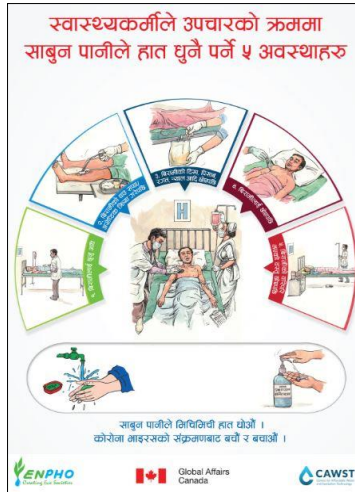
90	Mishan Kumar Bohara	Community WASH Volunteer
91	Mohan bahadur Khadayat	Community WASH Volunteer
92	Nabin Bam	Community WASH Volunteer
93	Nabin Channel	Community WASH Volunteer
94	Nanda Kumari Shah	Community WASH Volunteer
95	Nar Bahadur Rokaya	Community WASH Volunteer
96	Nara Dhami	Community WASH Volunteer
97	Naru Bist	Community WASH Volunteer
98	Nirmala Kumari Kuwar	Community WASH Volunteer
99	Nirmala Mahata	Community WASH Volunteer
100	Nisha Rimal	Community WASH Volunteer
101	Pabitra Ghatal	Community WASH Volunteer
102	Padam Raj Jaisi	Community WASH Volunteer
103	Partiksha Kumari Dhakal	Community WASH Volunteer
104	Pashu Ram Damai	Community WASH Volunteer
105	Prakash Dhami	Community WASH Volunteer
106	Prakasha Batala	Community WASH Volunteer
107	Prem Bohara	Community WASH Volunteer
108	Premika Kumari Mahat	Community WASH Volunteer
109	Rabina Pun	Community WASH Volunteer
110	Rajendra Rawal	Community WASH Volunteer
111	Ram Bahadur Khati	Community WASH Volunteer
112	Ram Chandra Dhami	Community WASH Volunteer
113	Ram Prasad Upadhaya	Community WASH Volunteer
114	Ramesh Bahadur Bist	Community WASH Volunteer
115	Ramesh Bahadur Saud	Community WASH Volunteer
116	Ramesh Singh Saud	Community WASH Volunteer
117	Ramita Kumari Rawat Chalaune	Community WASH Volunteer
118	Rekha Ojha	Community WASH Volunteer
119	Rita Basnet	Community WASH Volunteer
120	Rita Chalise	Community WASH Volunteer
121	Rubina Shaha Shahi	Community WASH Volunteer

122	Rup Bdr. Saud	Community WASH Volunteer
123	Rupa Devi Singh	Community WASH Volunteer
124	Sabitra Bhatta	Community WASH Volunteer
125	Sabitra Rawat	Community WASH Volunteer
126	Sarada Kumari Kuwar/Khadka	Community WASH Volunteer
127	Saraswati Kumari Bista	Community WASH Volunteer
128	Sarpa Raj Pandey	Community WASH Volunteer
129	Sarswati Bohara	Community WASH Volunteer
130	Satya Kumari Paddhya Jaishi	Community WASH Volunteer
131	Satya Khadka	Community WASH Volunteer
132	Sher Bahadur Kumai	Community WASH Volunteer
133	Shibraj Dahal	Community WASH Volunteer
134	Shova Kumari Singh	Community WASH Volunteer
135	Siddha Raj Dhakal	Community WASH Volunteer
136	Sirjana Kumari Thapa	Community WASH Volunteer
137	Sita Budha	Community WASH Volunteer
138	Sita Kumari Sijapati	Community WASH Volunteer
139	Sunita Dhami	Community WASH Volunteer
140	Tal Bdr Rokaya	Community WASH Volunteer
141	Tara Bogati	Community WASH Volunteer
142	Tara Kumari B.K.	Community WASH Volunteer
143	Tilak Raj Aagri	Community WASH Volunteer
144	Tulasa Bohara	Community WASH Volunteer
145	Uma Pun	Community WASH Volunteer
146	Upindra Rokaya	Community WASH Volunteer
147	Uttara Kumari Bohara	Community WASH Volunteer
148	Yashoda AirSaud	Community WASH Volunteer
149	Yogendra Bahadur Malla	Community WASH Volunteer

Annex IV: Glimpses of Publications Published During FY 2019/20



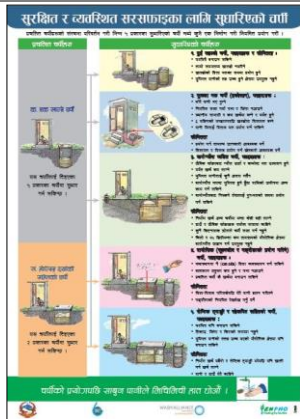
Poster (Critical Times of Handwashing to prevent COVID-19)



Poster (Critical Times of Handwashing for Health Workers while at Workplace)



Flyer (Safety measures to be taken by Sanitation Workers)



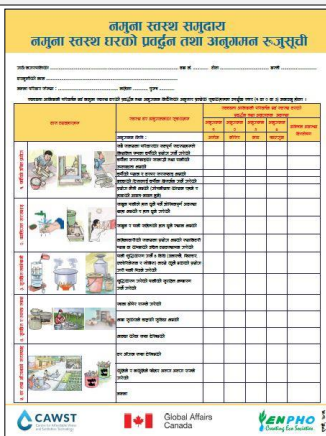
Flyer (Improved Latrine)



Display flex (Use of Personnel Protection Equipment for Workers at Construction Site)



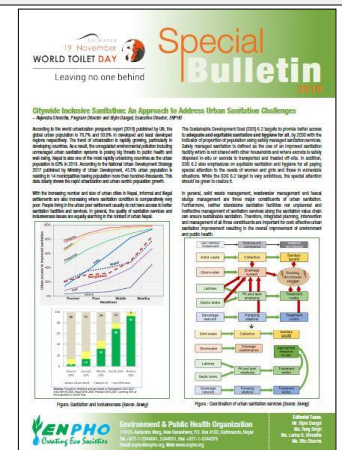
Display flex (Healthy Home Indicators)



Display flex (Model Healthy Community Indicator Checklist)



ODF bulletin of 9 districts



Special Bulletin 2019

<p>काठमाडौं र अन्तरक्रिया संस्था (एनफो) अजुली नगरस्तरीय समावेशी सरसफाइ अवधारणा, दिगो विकास लक्ष्य प्राप्त गर्न हाम्रो कामना ।</p>	<p>STORIES FROM THE FIELD WASH Changing Lives USAID</p>	<p>COVID and WASH for Healthcare Professionals ENPHO Online Orientation Manual July 2020 Developed By Environment and Public Health Organization (ENPHO) UNICEF ENPHO</p>
<p>Anjali 2076</p>	<p>Booklet (Case Stories from the Field)</p>	<p>Online Orientation Manual on COVID-19 and WASH for Healthcare Professionals</p>
<p>कोरोना भाईरस रोग र रोकथामका लागि अभिमुखिकरण वातावरण र जनस्वास्थ्य संस्था (एनफो) CAWST ENPHO Training Centre ENPHO</p>	<p>Pilot Implementation of FSM Standard in Nepal - Mahalaxmi, Lalitpur as Pilot Municipality Project Progress Report August 2019 ENPHO BILL & MELINDA GATES FOUNDATION</p>	<p>Shit Flow Diagram (SFD) Report of Bheemdatt Municipality, Nepal Final Report 2019 UNEP ASPAC ENPHO</p>
<p>Online Orientation Manual on COVID-19 and its Preventive Options</p>	<p>Progress Report of Pilot Implementation of FSM Standard in Nepal Project</p>	<p>SFD Report of Bheemdatt Municipality</p>
<p>Vulnerability Assessment Report Water Supply Systems Kalinchowk and Shailung Rural Municipality Dolakha, 2019 Water Security and Climate Resilient WASH Project WaterAid ENPHO</p>	<p>*Municipal Network Advocacy on Sanitation in South Asia (MUNASIA) Project Sanitation Situation Report of Waling Municipality Volume IV 2019 UNEP ASPAC ENPHO</p>	<p>ANNUAL REPORT 2019 ENPHO Environment and Public Health Organization</p>
<p>Vulnerability Assessment Report of Water Supply Systems</p>	<p>Sanitation Situation Report</p>	<p>Annual Report 2019 of ENPHO</p>

Annex V: Awards and Recognition Presented by ENPHO



ENPHO Tara- Best Employee of the Year 2076 Award presented to Mr. Santosh Dahal (WASH Engineer, ENPHO)



Hutaram Environment Award 2076 presented to Mr. Purna Sthapit (President, Lalitpur Batawaran Sudhar Sanstha)



Bigyan Memorial Research Award 2019 awarded to Mr. Gaurab Shrestha (MSc. Environmental Engineering student, IOE, Pulchowk)



Raju Memorial Youth Award 2019 presented to Ms. Manika Shrestha (Community Youth Volunteer)



Bhairab Risal Media Fellowship Award 2076 presented to Mr. Kumar Bhakta Ranjitkar (Radio Journalist)

Annex VI: Financial Audit Report



LR Sharma & Associates
Chartered Accountants

INDEPENDENT AUDITOR'S REPORT

The Members of Environment and Public Health Organization (ENPHO)

We have audited the accompanying financial statements of Environment and Public Health Organization (ENPHO) which comprises the Balance Sheet as on 31 Ashad 2077 Income and Expenditure, Receipt and Payment Statement for the period 01 Shrawan 2076 to 31 Ashad 2077 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

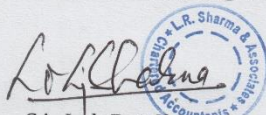
Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with Nepal Standards on Auditing. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether 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 misstatements 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 Ashad 2077 Income and Expenditure, Receipt and Payment Statement for the period 01 Shrawan 2076 to 31 Ashad 2077 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 Financial Reporting Standards or relevant practices and comply with Generally Accepted Accounting Principles.



CA. Lok Raj Sharma
For L.R. Sharma & Associates
Chartered Accountants

Date: 08 Poush 2077
Place: Kathmandu, Nepal
UDIN: 201223CA0050422lxy



LR Sharma & Associates
Chartered Accountants

08 Poush 2077 (23 December 2020)

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

Through: Mrs. Bhawana Sharma
Executive Director

Transmittal Letter Statutory Audit of ENPHO for the fiscal year 2076/77.

Dear Sir;

We are pleased to submit our report on the results of statutory audit for the fiscal year 2076/77.

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 to 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 10 executive board members, 129 general members and is managed by 125 staff members and 149 Volunteers.

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 2077 (15 July, 2020), Statement of Income & Expenditure and Fund Accountability Statement for the period 01 Shrawan, 2076 to 31 Asadh, 2077 (corresponding to 17 July, 2019 to 15 July, 2020), presents fairly in all material respects, project revenues and costs incurred for the period audited and balances as on 31 Asadh 2077.



Page 1 of 3

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 Poush 08, 2077 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 Ashad, 2077 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 Poush 08, 2077.

D. Status of prior year's audit recommendation

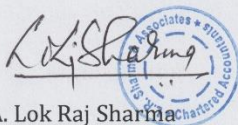
We have performed follow up of prior year's audit recommendation as Management Letter was issued to ENPHO during the previous year audit.

E. Management Letter and Management Response

We have issued our management letter on Poush 08, 2077 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. Lok Raj Sharma

L.R. Sharma & Associates
Chartered Accountants
Place: Kathmandu, Nepal

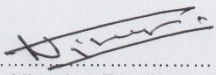
Environment and Public Health Organization (ENPHO)
New Baneshwor, Kathmandu

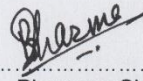
Balance Sheet
As on 31 Ashad 2077
As on 15 July 2020

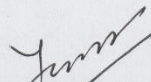
Particulars	Schedule	Amount (Rs.)	
		2076/77	2075/76
A. Sources of Fund			
Capital Fund Balance		1,070,081.30	1,070,081.30
Revaluation Surplus Fund		3,815,395.61	3,909,408.79
Surplus Fund	1	23,226,486.73	22,019,482.70
Total Sources of Fund		28,111,963.64	26,998,972.79
Applications of Fund			
B. Fixed Assets	2	7,908,001.23	8,811,145.14
C. Current Assets, Loans & Advances			
Program Advance and receivables	3	7,787,710.32	6,773,185.87
Other Advance and Deposit	4	3,909,485.55	4,400,805.60
Project Advances/Receivables of Other program	5	5,769,614.99	6,599,419.62
Cash & Bank Balance of Project Accounts	6	24,810,187.17	13,551,323.90
Cash & Bank Balance of ENPHO	7	30,593,861.78	42,411,968.44
		72,870,859.81	73,736,703.43
D. Less: Current Liabilities & Provisions			
Liabilities for on Going Other Programs	8	32,976,547.51	19,859,114.07
Sundry Creditors	9	5,695,624.87	3,814,276.01
Liabilities for on Going Programs of Donors (Fund)	10	13,994,725.02	31,875,485.70
		52,666,897.40	55,548,875.78
E. Working Capital (C-D)		20,203,962.41	18,187,827.65
Total Application of Fund (B+E)		28,111,963.64	26,998,972.79

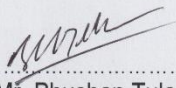
Significant Accounting Policies and Explanatory Notes to Account Schedules 1 to 21 form an integral part of this financial statement

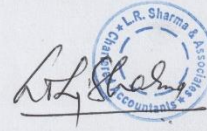
As per our report of even date


Niranjan Pradhan
Admin & Finance Director



Bhawana Sharma
Executive Director


Prakash Amatya
Treasurer


Mr. Bhushan Tuladhar
Chairperson


CA. Lok Raj Sharma
L.R. Sharma & Associates
Chartered Accountants

Date: 08 Poush 2077
Place: Kathmandu, Nepal

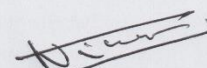


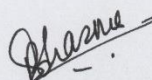
Environment and Public Health Organization (ENPHO)
New Baneshwor, Kathmandu
Income Statement
for the Year ended 31 Ashad 2077
for the Year ended 15 July 2020

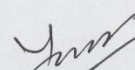
Particulars	Schedule	Amount (Rs.) 2076/77	Amount (Rs.) 2075/76
Income			
Remittances From Donors	11	-	270,725.00
Remittances From other Project Activities	12	180,653,179.71	196,344,783.71
Income from Activities	13	19,896,756.04	16,058,679.97
Income from Other Activities	14	225,543.41	74,134.04
		200,775,479.16	212,748,322.72
Expenditure			
Program Cost	15	-	-
Program Cost of Other Project activities	16	183,567,097.92	197,353,471.58
Institutional / Administrative Cost	17	6,546,666.65	10,193,848.73
Repair & Maintenance	18	44,805.77	124,038.27
Other Activity Expenses	19	1,864,265.83	3,174,849.74
Expenditure Incurred to Projects	20	6,642,495.05	798,611.49
Depreciation	2	903,143.91	1,083,079.94
		199,568,475.13	212,727,899.75
Excess of Income over Expenditure		1,207,004.03	20,422.97

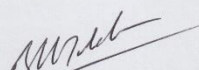
Significant Accounting Policies and Explanatory Notes to Account
Schedules 1 to 21 form an integral part of this financial statement

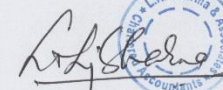
As per our report of even date


Niranjana Pradhan
Admin & Finance Director


Bhawana Sharma
Executive Director


Prakash Amatya
Treasurer


Mr. Bhushan Tuladhar
Chairperson


CA. Lok Raj Sharma
L.R. Sharma & Associates
Chartered Accountants

Date: 08 Poush 2077
Place: Kathmandu, Nepal

Environment and Public Health Organization (ENPHO)
New Baneshwor, Kathmandu
Receipt and Payment Statement
for the year ended 31 Ashad 2077
for the year ended 15 July 2020

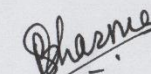
Receipt	Schedule	Amount (Rs.)		Payment	Schedule	Amount (Rs.)	
		2076/77	2075/76			2076/77	2075/76
Op. Cash & Bank Balance (ENPHO)	7	42,411,968.44	15,234,460.44	Op. Liability of Donors	10	31,875,485.70	2,907,887.14
Op. Cash & Bank (Project Accs.)	6	13,551,323.90	10,231,337.24	Op. Liability of other Program	8	19,859,114.07	14,953,972.86
Opening Staff Advances		-		Op. Sundry Creditors	9	3,814,276.01	4,163,561.72
Op. Program Advances & Receivables	3	6,773,185.87	3,648,026.27	Lab analysis & Production Expenses.	19	1,864,265.83	3,174,849.74
Op. Project Adv. Receivable	5	6,599,419.62	5,948,818.90	Purchase of Non-Expendable Equipment	2	-	90,487.70
Op. Other Advance and Deposit	4	4,400,805.60	4,238,297.88	Administrative Expenses	17	6,546,666.65	10,193,848.73
Fund Received from Projects	11	-	270,725.00	Repair & Maintenance	18	44,805.77	124,038.27
Fund from Other Project Activities	12	180,653,179.71	196,344,783.71	Project Expenses	15	-	-
Income From Activities	13	19,802,742.86	15,957,973.40	Other Project Activities Exps.	16	183,567,097.92	197,353,471.58
Interest earned From Other Activities	14	225,543.41	74,134.04	Expenditure Incurred to Project	20	6,642,495.05	798,611.49
Disposal of Non Expendable Equipment	2	-	-	Program Advance & Receivables	3	7,787,710.32	6,773,185.87
Closing Sundry Creditors	9	5,695,624.87	3,814,276.01	Other Receivable & Deposit	4	3,909,485.55	4,400,805.60
Closing Liability for Other Program	8	32,976,547.51	19,859,114.07	Project Advance Receivable of other	5	5,769,614.99	6,599,419.62
Closing Liability for Ongoing Program (Fund)	10	13,994,725.02	31,875,485.70	Cash & Bank Balances / ENPHO	7	30,593,861.78	42,411,968.44
				Cash & Bank Balances (Project)	6	24,810,187.17	13,551,323.90
Total		327,085,066.81	307,497,432.66	Total		327,085,066.81	307,497,432.66

Significant Accounting Policies and Explanatory Notes to Account Schedules 1 to 21 form an integral part of this financial statement

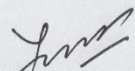
As per our report of even date



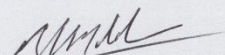
Niranjan Pradhan
Admin & Finance Director



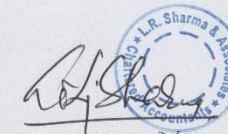
Bhawana Sharma
Executive Director



Prakash Amatya
Treasurer



Mr. Bhushan Tuladhar
Chairperson



CA. Lok Raj Sharma
L.R. Sharma & Associates
Chartered Accountants

Date: 08 Poush 2077
Place: Kathmandu, Nepal

Environment and Public Health Organization (ENPHO)
New Baneshwor, Kathmandu
For the period ended
31 Ashad 2077



Fixed Assets / Non-Expendable
2076/77
15 July 2020

Schedule 2

Particulars	Gross Block			Depreciation			Net Block				
	Historical cost	Addition during the year	Disposal during the year	Total value as of 31 Ashad 2077	Accumulated Dep. upto 32 Ashad 2076	Net Book Value	Rate	As at 2077	Total Accu. Depreciation as at 31 Ashad 2077	As at 31 Ashad 2077	As at 31 Ashad 2076
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	6,480,452.72			6,480,452.72	3,445,890.65	3,034,562.07	5%	151,728.10	3,597,618.75	2,882,833.97	3,034,562.07
Office Furniture (Wooden & Steel)	2,876,826.70			2,876,826.70	2,428,805.13	448,021.57	25%	112,005.39	2,540,810.52	336,016.18	448,021.57
Office Equipment:	5,067,687.43			5,067,687.43	4,137,682.92	930,004.51	25%	232,501.13	4,370,184.05	697,503.38	930,004.51
a) Computer, Printer, Laptop FAX					-			-	-	-	-
b) Multimedia, Fax Mac					-			-	-	-	-
Computer & Printer-Lab	411,710.59			411,710.59	354,236.07	57,474.52	25%	14,368.63	368,604.70	43,105.89	57,474.52
Lab Equipment- (AAS ,GC etc.)	13,956,359.64			13,956,359.64	12,354,602.04	1,601,757.60	15%	240,263.64	12,594,865.68	1,361,493.96	1,601,757.60
Loose tools	13,064.00			13,064.00	12,274.95	789.05	25%	197.26	12,472.21	591.79	789.05
Vehicles (include Motor)	4,747,261.50			4,747,261.50	4,525,689.43	221,572.07	20%	44,314.41	4,570,003.84	177,257.66	221,572.07
Software	858,753.00			858,753.00	568,960.05	289,792.95		96,597.65	665,557.70	193,195.30	289,792.95
Solar Pannel	98,000.00			98,000.00	69,776.00	28,224.00	25%	7,056.00	76,832.00	21,168.00	28,224.00
Miscellaneous	95,341.25			95,341.25	78,894.45	16,446.80	25%	4,111.70	83,006.15	12,335.10	16,446.80
Total	36,787,956.83	-	-	36,787,956.83	27,976,811.69	8,811,145.14		903,143.91	28,879,955.60	7,908,001.23	8,811,145.14

[Handwritten signatures and initials]



Annex VII: Proposed Budget for FY 2077/78 (2020/21)

ENVIRONMENT & PUBLIC HEALTH ORGANIZATION (ENPHO)

2077/078

S.N	Projected Income 2077/078	Amount NPR
1	Administration Support Cost / Management Cost	17,682,000.00
2	Pipe line Projects	59,500,000.00
3	Training, Rent & Royalty Income	2,500,000.00
4	On-going Projects	176,820,000.00
Total		256,502,000.00

Environment and Public Health Organization

New Baneshwor

Budget for the Financial Year 2077/078

Administrative Cost (Projected Expenses 2077/078)

S.N	Details	Total
1	Advertisement Expenses	40,000.00
2	AGM	250,000.00
3	Audit Fee	125,000.00
4	Award Expenses	100,000.00
5	Bank Commission	15,000.00
6	Meeting Expenses	180,000.00
7	Capacity Building	150,000.00
8	Day Celebration Expenses	100,000.00
9	Driver	455,000.00
10	Fee & Renewal	150,000.00
11	Fuel	50,000.00
12	Gas	50,000.00
13	Insurance	400,000.00
14	Internal Auditor	240,000.00
15	Internet Expenses	360,000.00
16	Legal Adviser	198,000.00
17	Low Value Assets	200,000.00
18	Monitoring Expenses	200,000.00
19	Printing & Stationary	660,000.00
20	Project Proposal Development	150,000.00
21	Refreshment	720,000.00
22	Repair & Maintenance	600,000.00
23	Repair & Maintenance Computer	480,000.00
24	Research	240,000.00
25	Security Guard	720,000.00
26	Software/ Social media and Website Renewal Expenses	300,000.00
27	Staffs Salary	15,060,500.00
28	Telephone	120,000.00
29	Transportation	240,000.00
30	Water & Electricity	600,000.00
Total		23,153,500.00

Annex VIII: ENPHO in News

एन्फोद्वारा पिउस वितरण

● लोकमञ्च संवाददाता
श्रावण १२ सुर्खेत।

वीरेन्द्रनगर नगरपालिका अन्तर्गत बाढी प्रभावित स्थानमा वातावरण र जनस्वास्थ्य संस्था (एन्फो)ले पिउस वितरण गरेको छ। नगरपालिकाका २, ९ र १० नं. वडाहरूमा एन्फोले नगरपालिका तथा वडाहरूको समन्वयमा शनिबार र आईतबार पिउस (क्लोरिन) वितरण गरेको हो।

वडामा डुवानका कारण पानीका मुहानहरू दुषित भएको तथा पानीमा दिशामा पाइने जिवाणुहरू हुन सक्ने भएकाले पिउस (क्लोरिन भोल) वितरण गरिएको संस्थाका परि योजना संयोजक अनिल महजनले बताए।

उनले भने, 'पिउस वितरणका साथै पानी शुद्धिकरण गर्ने विधिहरूको बारेमा समेत जानकारी दिएका छौं।' डुवान परेको क्षेत्रका नागरिकलाई पानी उमाल्ने विधि, क्लोरिन हात्ने, फिल्टर गर्ने, सोडिस गर्ने सम्बन्धी जानकारी दिएको उनले बताए।

डुवान क्षेत्रमा क्लोरिन वितरण

सुर्खेत, १२ साउन। (युस) भर्खरको अवरल वर्षको कारण डुवानमा परेका वीरेन्द्रनगर नगरपालिकाको डुवान क्षेत्रमा खानेपानी शुद्धिकरण गर्न क्लोरिन वितरण गरिएको छ। नगरको वडा नं २, ९ र १० वडाहरूमा जम्मा पाँच सय घरधुरीलाई लक्षित गरि वातावरण र जनस्वास्थ्य संस्था (एन्फो)ले त्यस नगरपालिका र वडाहरूको समन्वयमा पिउस नामक क्लोरिन शनिबार र आईतबार वितरण गरिएको हो।

उक्त वडाहरूको पानीको स्रोतहरूमा बढिको भोलले पानी दुषित बनाएको र पानीमा दिशामा पाइने जीवाणुहरू हुन सक्ने भएकाले क्लोरिन भोल (पिउस) वितरण गरेको कुरा यस संस्थाका परियोजना संयोजक अनिल महजनले जानकारी दिए। उक्त वडाहरूमा मनसुन सिजनमा पानीका स्रोतहरू दुषित हुने मान नभई पानी खाई मानिसहरू फाडा पखाल, हैला, टाढाफाड लगायत अन्य धेरै पानी जम्न रोमाहक लम्ने भएका कारण पानीलाई घरेलु स्तरमा शुद्धिकरण गर्ने विधिहरू उमाल्ने, क्लोरिन हात्ने, फिल्टर गर्ने, सोडिस गर्ने सम्बन्धी अभिमुखिकरण गरिएको भियो।

वातावरण र जनस्वास्थ्य संस्था (एन्फो)ले वासएन्फो इन्टरनेसनलको आर्थिक सहायतामा सुर्खेत जिल्लाको भेरीया नगरपालिका र बराहनाथ गाउँपालिकाका सम्पूर्ण वडाहरूमा खानेपानी, सरसफाई र स्वच्छता सम्बन्धि विज्ञान विकास कार्यक्रम संचालन गरिदै आइरहेको छ।

पानी परीक्षण गर्ने मिनी ल्याब सञ्चालन

भास्वती लामा
सुर्खेतको मिना २५

नेपाललाई सन् २०३० भित्र पूर्ण सरसफाई देश बनाउने राष्ट्रिय लक्ष्यलाई देवा पुनःनगर नगरपालिका जनस्वास्थ्य संस्था (एन्फो) तथा विकिनेट नेपालद्वारा विद्युत्मा पानी परीक्षण गर्ने मिनी ल्याब सञ्चालनमा ल्याएको छ।

सर्वसाधारणले प्रयोग गर्ने पानीको गुण, संकलन दृश्यांक, घाटा तथा कुवाको पानीको गुणस्तर आदि मापन जित्तलै पहिलो पटक मिनी ल्याब सञ्चालनमा ल्याइएको हो। उक्त ल्याबमा खानेपानी परीक्षण सम्बन्धी तालिम प्राप्त प्राविधिकद्वारा पानी परीक्षण गरिने र नेपाल सरकारको खानेपानी गुणस्तर मानक अनुसारको

२० प्रकारको गुणस्तर परीक्षणमै प्रमुख १३ प्रकारका सेवा उपलब्ध गराउने विकिनेट नेपालका कार्यकारी निर्देशक सोबराज शम्सेरले बताए।

शासकका अनुसार पानीको पहिलोपल्ट, पिएर री, फलाम, क्लोराइड, नाइट्रेट, कडाम, सोडियम, क्याल्सियम, म्याग्नेशियम, क्लोरिन अजोड, इ-कोन्टी र कोडरम जस्ता ल्याबमा परीक्षण गरिन्छ। प्रयोग नगरिने उपकरण गर्ने पानी कलममा पनि बाँसा दुई पटक परीक्षण गर्नुपर्ने भन्ने छ। तर, क्लोरिनमा पानी परीक्षण गर्ने ल्याब खुला सञ्चालनमा हुँदै आएको भियो। मानव स्वास्थ्यमा केही सम्बन्ध आउने र पानी परीक्षण सुन्दर उपकरणसँगै चलाउनुपर्ने उल्लेख भयो। समय लामो र सार्बन्धी ल्याब हुँदा पानी परीक्षण गर्न खासै अभाव देखिएन, भन्ने भने, 'पूर्व सरसफाई देश बनाउने लक्ष्यमा रहेको छ

साकार। वातावरण तथा डुवानको मानव स्वास्थ्य सम्बन्ध हुनु आवश्यक छ। स्वच्छ पानीले मानिसलाई स्वस्थ राख्न सक्नेगो पाउँ। त्यसैले क्लोरिनको नगरिकलाई पानीको परीक्षण मापन आहात गरी ल्याबसमेत सञ्चालनमा ल्याएका हो।

पारसी प्रयोगका लागि १३ प्रकारका सेवा लिएरमा एक हजार १५ सय, उपभोक्ता समितिका लागि एक हजार ९ सय र व्यवसायी संस्था तथा कार्यालयका लागि एक हजार सात सय सैली शुल्क लाग्नेछ। विशेषगरी पानीको आधारभूत तथै प्रयोगका कोडरम, सोडियम र फलाम परीक्षण सेवा पारसी प्रयोगलाई दुई सय ५०, उपभोक्ता समितिलाई तीन सय र व्यवसायी संस्था तथा कार्यालयका लागि तीन सय ५० सैली शुल्क लाग्नेछ।



मानव मलमूत्रको दिगो व्यवस्थापन

राजेश शर्मा

सिमान्तक मेशी प्रयोग तथा व्यवस्थापनलाई व्यवस्थित गराउन र्क अखण्ड अनुसन्धान गर्नुपर्छ

जसो जसो विकास हुँदै गइरहेको छ, त्यसो तसो मानव मलमूत्रको दिगो व्यवस्थापनको आवश्यकता पनि बढिरहेको छ। मानव मलमूत्रको दिगो व्यवस्थापनको लागि सरकारले आवश्यक नीति र कार्यक्रम तय गर्नुपर्छ।

मानव मलमूत्रको दिगो व्यवस्थापनको लागि सरकारले आवश्यक नीति र कार्यक्रम तय गर्नुपर्छ। मानव मलमूत्रको दिगो व्यवस्थापनको लागि सरकारले आवश्यक नीति र कार्यक्रम तय गर्नुपर्छ।

मानव मलमूत्रको दिगो व्यवस्थापनको लागि सरकारले आवश्यक नीति र कार्यक्रम तय गर्नुपर्छ। मानव मलमूत्रको दिगो व्यवस्थापनको लागि सरकारले आवश्यक नीति र कार्यक्रम तय गर्नुपर्छ।

मानव मलमूत्रको दिगो व्यवस्थापनको लागि सरकारले आवश्यक नीति र कार्यक्रम तय गर्नुपर्छ। मानव मलमूत्रको दिगो व्यवस्थापनको लागि सरकारले आवश्यक नीति र कार्यक्रम तय गर्नुपर्छ।

ACRONYMS

AAS	Atomic Absorption Spectrophotometer
ACAP	Annapurna Conservation Area Project
AIT	Asian Institute of Technology
AWF	Appropriate WASH facilities
BCD	Behaviour Centric Design
BSP Nepal	Biogas Sector Partnership Nepal
CAWST	Centre for Affordable Water and Sanitation Technology
CBS	Central Bureau of Statistics
CDF	Community Development Forum
CIUD	Centre for Integrated Urban Development
ConCAD	Consulting Capacity Development of Urban Sanitation
COVID 19	Coronavirus Disease
CWF	Community Women Forum
CWIS	City-Wide Inclusive Sanitation
DAG	Disadvantage Group
DEO	District Education Office
DEWATS	Decentralized Wastewater Treatment System
DFID	Department for International Development
D-WASH-CC	District Water Sanitation Hygiene Coordination
DWSS	Department of Water Supply and Sewerage
ECC Vial	E. Coli and Coliform Vial
EcoSan	Ecological Sanitation
EPD	Education Program Development
EOI	Expression of Interest
FSM	Faecal Sludge Management
FSTP	Faecal Sludge Treatment Plant
FGD	Focus Group Discussion
FSCN	Friends Service Council Nepal
FEDWASUN	Federation of Drinking Water and Sanitation Users Nepal
GESI	Gender Equality and Social Inclusion
GIS	Geographic Information System
GIZ	German Corporation for International Cooperation
GoN	Government of Nepal
HBCC	Hygiene and Behaviour Change Coalition
IEC	Information Education Communication
I/NGOs	International/Non-Governmental Organization
ISO	International Standards Organization
IUWM	Integrated Urban Water Management
J-WAFS	Abdul Latif Jameel Water and Sanitation Food Systems Lab
K-Eco	Korean Environment Corporation
KVWSMB	Kathmandu Valley Water Supply Management Board
LSF	Learning and Sharing Friday
MDG	Millennium Development Goal
MHM	Menstrual Hygiene Management
MICS	Multiple Indicator Cluster Survey
MIT	Massachusetts Institute of Technology
MoU	Memorandum of Understanding
MMH	Mum's Magic Hand
MuAN	Municipal Association of Nepal
NBSM	Nepal Bureau of Standard & Metrology
NMICS	Nepal Multiple Indicator Cluster Survey
NSS	Non-Sewered Sanitation
O&M	Operation & Maintenance

ODF	Open Defecation Free
OHS	Occupational Health and Safety Measures
PMIS	Project Management Information System
PoU	Point of Use
PP	Paschim Paaila
RCNN	Resource Centre Network Nepal
RVT	Reservoir Tank
SBCC	Social Behavior Change Campaign
SDG	Sustainable Development Goals
SODIS	Solar Disinfection
SOP	Standard Operation Procedures
SRHR	Sexual and Reproductive Health and Rights
SuSanA	Sustainable Sanitation Alliance
ToT	Training of Trainers
UCLG/ASPAC	United Cities and Local Governments Asia - Pacific
UNICEF	United Nations Children's Fund
URL	Uniform Resource Locator
UV	Ultra Violet
VMW	Village Maintenance Worker
WASH	Water Sanitation and Hygiene
WSP	Water Safety Plan
WSSDO	Water Supply and Sanitation Division Office
WSS	Water Supply Scheme
WUC	Water User's Committee
W-WASH-CC	Ward Water Sanitation Hygiene Coordination Committee

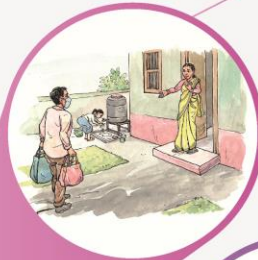
कोरोना भाइरसबाट बच्न साबुन पानीले हात धुनैपर्ने अवस्थाहरू

बिरामीको स्याहार गर्नु अघि र गरिसकेपछि

खोकिसकेपछि वा हाटिछर्नुं गरिसकेपछि



बाहिरबाट आएपछि, घर वा कार्यालय प्रवेश गर्नु अघि



जनावर वा जनावरको मलमुत्र र फोहोर छोएपछि



धेरै व्यक्तिहरूले छुनसक्ने वस्तु छोएपछि



बच्चाको दिसा घोइदिएपछि



खाना पकाउनु अघि

चर्पी प्रयोग गरिसकेपछि



खाना खानु अघि

खाना खुवाउनु अघि



साबुन पानीले मिचिमिची हात घोऔं ।
धारालाई पनि साबुन पानीले पखालौं, अनि मात्र बन्द गरौं ।

