

ANNUAL REPORT 2021





Environment and Public Health Organization

ENPHO Annual Report 2021

Submitted To:

30th Annual General Meeting 2078/2021

Environment and Public Health Organization (ENPHO)

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4 December, 2021



Vision:
Creating Eco-Societies

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

Message from the Chairperson and Executive Director

Dear readers,

It is our immense pleasure to share with you our Annual Report 2021. It encapsulates the activities we accomplished in 2021. The year remained quite challenging. Amid escalating cases of Coronavirus disease-2019 (COVID-19) throughout the year and prolonged political chaos, ENPHO was able to make significant achievements in its efforts to ensure better health, sanitation, and environment in its working areas in Nepal. Its collaboration and coordination with various development partners, government agencies, civil society organizations (CSOs), and the private sector led to more effective institutional mechanisms, and service delivery to address the problems related to environment and health.

The COVID-19 pandemic has claimed the lives of more than 11,000 people in Nepal. Over 800,000 people have been infected, and many lost jobs and sources of income, adversely impacting the health, sanitation, and livelihoods of the poor and vulnerable groups. The crisis also heightened vulnerability to the COVID-19 pandemic and other health problems. Although the pandemic constrained the organization in carrying out in-person activities, our staff worked in a dedicated manner and accomplished important activities to the extent possible.

During the fiscal year 2020/21, ENPHO directly and indirectly benefited over 8 million people by implementing various projects and programs in the areas of safe water, sustainable sanitation, community-based water, sanitation, and health (WASH), E-WASH and disaster risk reduction, research and development, WASH and nutrition and capacity building on WASH.

Besides delivering service, ENPHO believes in creating, documenting, and disseminating knowledge products in order to influence the state policies and practices, generate public awareness, exchange knowledge and experience, thereby rendering its work replicable. Therefore, this year too, the organization focused on building the capacity of its staff, volunteers, the staff of partner organizations and the community by developing training curricula, and manuals, bringing out more than 125 publications and IEC materials.

We would like to take this opportunity to thank our dedicated team of staff, volunteers, development partners, government agencies, community-based organizations, like-minded CSOs, and community people who are our direct and indirect beneficiaries. They were pivotal in our efforts to promote the demonstration and dissemination of eco-friendly technologies and sustainable sanitation systems, integrated community-based approaches for safe water, hygienic behavior, and environmental and air quality monitoring for creating healthy and environment-friendly societies, in the face of the pandemic.

We would like to invite constructive feedback from the stakeholders to our program and look forward to continued coordination, cooperation, and collaboration in the coming years.

Happy reading!



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 (AEPC)
- American Embassy
- Armed Police Force Hospital
- Asian Development Bank
- Bill & Melinda Gates Foundation, USA
- Biogas Sector Partnership (BSP) Nepal
- Biosand Filter Entrepreneurs' Association Nepal (BiFEAN)
- Bir Hospital
- Biruwa Advisors Pvt. Ltd.
- Blue Waste to Value Pvt. Ltd.
- Bremen Overseas Research and Development Association (BORDA)
- Building Design Authority (P) Ltd.
- Calgary Nepalese Community Association
- 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.
- City Wide Inclusive Sanitation Technical Assistance Hub In South c/o Devconsultants Limited
- Civil Services Hospital
- Department of Health Service (DHS)
- Department for Water Supply and Sewerage (DWSS)
- Development and Environment Conservation Centre - Nepal (DECON Nepal)
- DFID
- Dhulikhel Hospital
- Eco Concern Pvt. Ltd.
- Equal Access Nepal
- Federation of Drinking Water and Sanitation Users Nepal (FEDWASUN)
- FHI 360
- Global Affairs Canada (GAC)
- Guthi
- Helen Keller International (HKI)
- Hospital and Research Center for Disabled Children
- Innovative Poverty Action (IPA)
- Innovative Solution Pvt. Ltd.
- Institute for Water Sanitation (IHE Delft)
- Janahit Grahmin Sewa Kendra (JGSS), Sindhupalchwok

- Japan International Cooperation Agency (JICA)
- 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
- Municipal Association of Nepal (MuAN)
- Nepal Bureau of Standards and Metrology (NBSM)
- Nepal Environmental and Scientific Services Pvt. Ltd. (NESS Lab)
- Nepal Red Cross Society (NRCS)
- Nepali Heritage Charity Foundation
- Nepali Technical Assistance Group (NTAG)
- NGO Forum for Urban Water and Sanitation
- Oxfam Nepal
- Patan Hospital
- PATH
- Rain Foundation, the Netherlands
- Rotary International
- RUAF HIVOS, the Netherlands
- Rural Water Supply and Sanitation Fund Development Board (RWSSFDB)
- Sahakarmi Samaj
- SEBAC Nepal
- SIMAVI
- 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)
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- Swiss Federal Institute for Environment Science and Technology (Eawag),
- Tetra Tech ARD
- Tribhuvan University (TU)
- Tribhuvan University Teaching Hospital (TUTH)
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- University of Kyoto, Japan
- University of Yamanashi, Japan
- Urban Environment Management Society (UEMS)
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- Vijay Development Research Centre (VDRC)
- WASH FIN
- WASTE, The Netherlands
- Water Engineering Pvt. Ltd. (Lab)
- Water, Sanitation and Hygiene - Resource Centre Network Nepal (WASH RCNN)
- World Bank
- Yale University
- 500 B Solutions Pvt. Ltd.

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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.

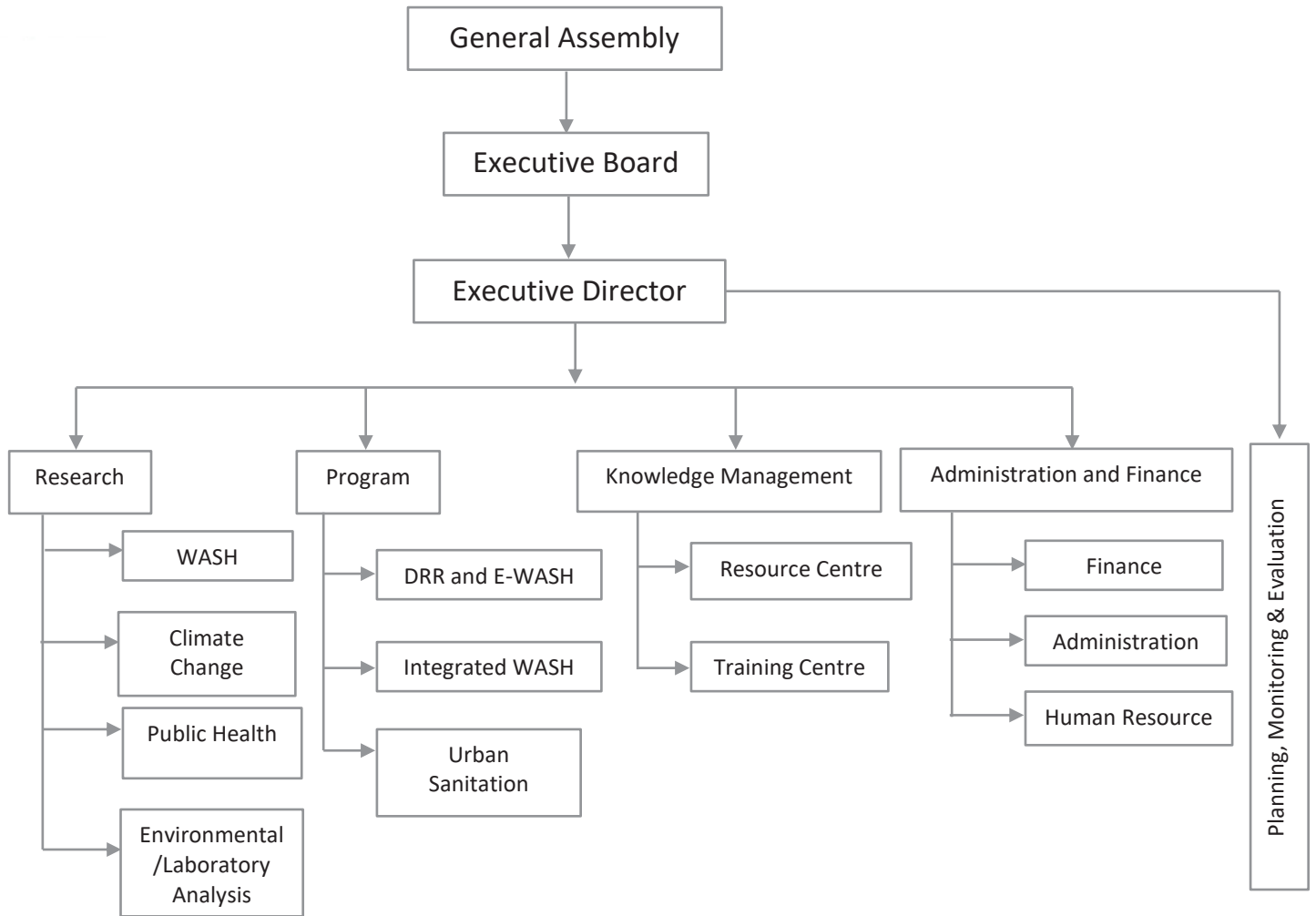
Strategic Objectives

- 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.

Over the last few years, ENPHO has focused on contributing to National SDG targets, mainly SDG6 Ensure access to water and sanitation for all. Therefore, 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 promoting 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 137 members that elects an Executive Board once every three years. The Executive Director leads 140 staff members of which 42 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 (chlorine solution for water treatment) 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
2001	Field based research 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 2020/21, ENPHO carried out various projects and programs in the areas of safe water, sustainable sanitation, community based WASH, Emergency-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, this year ENPHO has been able to conduct **20 projects** benefitting **8,673,432 people** directly and indirectly.

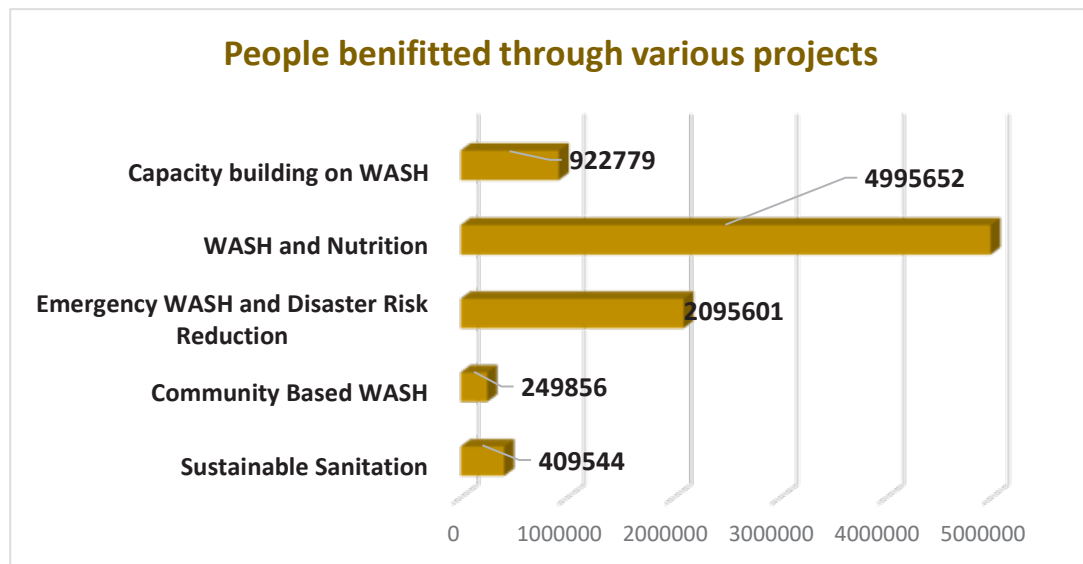
Total Projects and Beneficiaries for this FY 2020/21

20 Projects

8,673,432 People benefitted directly and indirectly

Altogether, 20 projects were carried out in which 9 projects have been completed and 11 are ongoing. Out of 20 projects, 2 were on “Sustainable Sanitation”, 2 on “Community based WASH”, 9 on “Emergency WASH and Disaster Risk Reduction”, 2 on “Research and Development”, 1 on “WASH and Nutrition” and 4 on “Capacity Building on WASH”.

Within this fiscal year, altogether, **4,09,544 people** benefitted through **sustainable sanitation** projects, **2,49,856 people** were benefitted through **community based WASH** project, **20,95,601 people** benefitted through **Emergency WASH and Disaster Risk Reduction** projects, **49,95,652 people**



through WASH and Nutrition projects and **9,22,779** WASH professional and municipal officials benefitted through **capacity building** projects and programs.

This year, altogether, **94,318 units of Piyush** and **11,891 units of Piyush Plus** were sold in partnership with EcoConcern Pvt. Ltd.

For this FY 2020/21, ENPHO Training Centre developed **18 training materials including 10 online packages, 1 education material and 7 types of IEC materials** which also include **short videos**. In addition to this, ENPHO Resource Centre published **126 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 options to treat drinking water. It is one of the best options to treat water during emergency situations, epidemic and disaster response. ENPHO Laboratory produces the “Piyush” and is being distributed and promoted through various projects and partners.

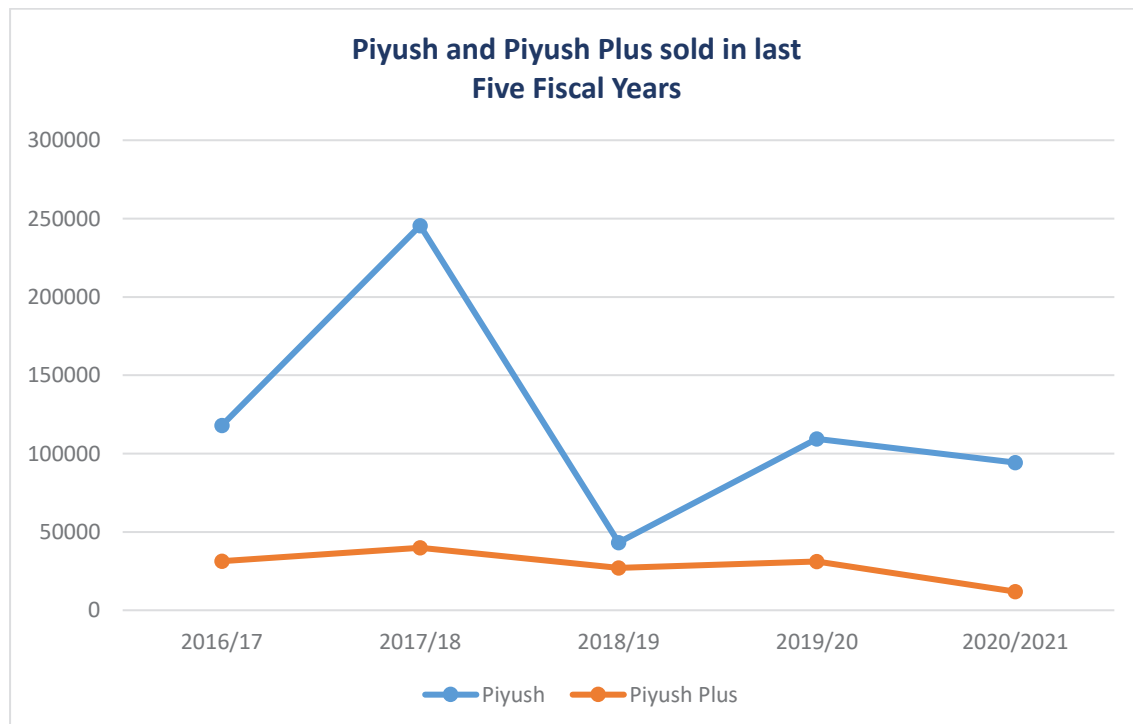
During the fiscal year 2020/21, altogether **94,318 units of Piyush** were sold.

Piyush Plus

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

Altogether, **11,891 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).



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, fecal 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 2020/21, under “Sustainable Sanitation” thematic program, **2 projects** were implemented with the support of various partners directly benefitting **4, 09,544 People**.

This year, Ready to Install (RTI) septic tank with soak pit was introduced and was installed in households and public toilets of Mahalaxmi Municipality, Lalitpur.

Additionally, under the project ‘Municipalities Network Advocacy on Sanitation in South Asia,’ Shit Flow Diagram reports of five pilot municipalities- Bheemdatta, Waling, Lamahi, Dhulikhel and Lahan have been published by SuSana and the construction of FSTP has been completed in Waling.



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

Status: Completed

Project Partner: Municipal Association of Nepal (MuAN), United Cities of Local Governance Asia Pacific (UCLG ASPAC)

Project Area: Lahan Municipality- Siraha District, Province 2; Dhulikhel Municipality- Kavre District, Bagmati Province; Waling Municipality- Syangja District, Gandaki Province; Lamahi Municipality- Dang District, Lumbini Province; Lahan Municipality- Siraha District, Sudurpaschhim Province

Project Duration: May 2018 - December 2020

Objectives:

- To strengthen capacity of MuAN in implementing national policy and strategy on sanitation, with a focus on Fecal 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 Fecal 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 in 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:

- Developed DPR of 5 pilot municipalities;
- Sensitized more than 500 Mayors, Deputy Mayors and elected officials on FSM and Institutional Regulatory Framework through Provincial level workshop in all 7 provinces;
- Capacitated 138 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;
- Strengthened cooperation with Ministries and relevant stakeholders;
- Recognized MuAN as a member of NSHCC and a member of Urban Sanitation



Promotion Committee (as a subcommittee);

- Published Sanitation Situation Report of 5 Pilot Municipalities;
- Regulated Fecal Sludge Management in 5 model cities/municipalities;
- More than 100 Mayors and Deputy Mayors were sensitized on proper septic tank;
- Developed and disseminated PSA on FSM at mass media utilizing expertise of renowned artist MAHA Jodi and former Miss Nepal.



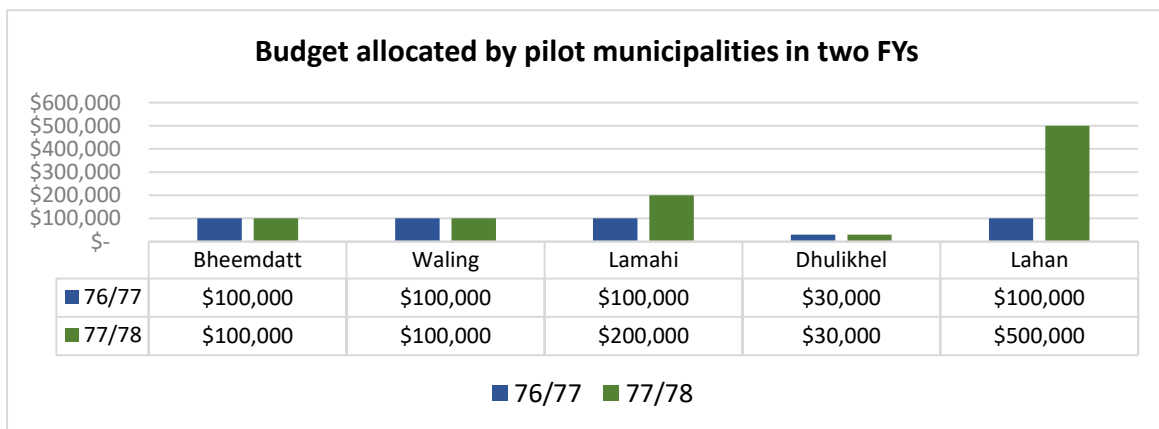
Major Achievements:

Advocacy and Sensitization

- 5 sub-national FSM policies for 5 pilot municipalities developed;
- The municipalities started understanding fecal sludge management as an integrated approach necessary to form a “more civilized” society in present scenario.

Increased Financial Commitment

All five pilot municipalities have planned to build their own Fecal Sludge Treatment Plant (FSTP) and have allocated annual budget on FSM at their pilot municipalities.



Increased Political Commitment

- Pledge signed by former Prime Minister of Nepal Mr. K. P. Sharma Oli and Minister of Water Supply Ms. Bina Magar as a commitment to work on Fecal Sludge Management;
- Strong commitments developed by the Mayors of Pilot municipalities and members of Municipal Association of Nepal (MuAN).

Capacity Enhancement

- Established Policy Advocacy Unit and 7 Provincial Learning Centres under MuAN;
- Technical capacity enhancement of leaders and staff members directly involved, from the pilot municipalities as well as other adjoining municipalities;

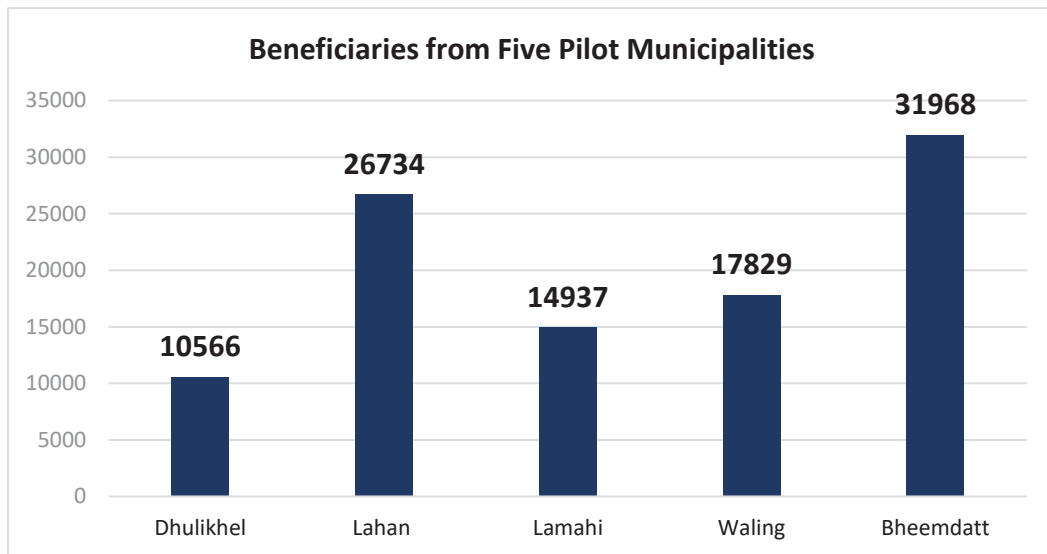
- Developed 5 DPR of FSTP for Pilot municipalities.

Other

- SFD report of all 5 pilot municipalities published by SuSANA
- Completed construction of FSTP as per DPR by Waling and initiated in other pilot municipalities.



Beneficiaries:



4,09,350 People Reached

2,37,893 Male

1,71,457 Female

2.2 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 - December 2021

Objectives:

- 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, 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:

- Trained 29 municipal technical staff and 39 engineers in Mahalaxmi Municipality on the design of the standard septic tank and its necessity on FSM;
- Oriented 119 sanitation workers on occupational health and safety and the importance of personal protective equipment at work;
- PPE distributed to 119 sanitation workers which included desludging service providers, sewerage cleaners and solid waste collectors;
- Containment improvement in 4 households;
- Developed IEC materials;
- Installed RTI septic tanks in 1 public toilet in the municipality;
- Provided PPE, medicines and Piyush to the health division of Mahalaxmi Municipality during COVID response.

Major Achievements:

- Prepared City-wide Inclusive Sanitation report for Mahalaxmi Municipality;
- Prepared report on Licensing Mechanism for desludging service providers;
- Upgraded vulnerable containments with RTI septic tanks at household level.

3. Community Based WASH



ENPHO is 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 2020/21, ENPHO, with the support of various partners, implemented **2 projects** on community based WASH benefitting **2,49,856** people.

This year, with the support of BORDA, ENPHO under ‘Integrated Urban Water Management at the Center of Municipal Public Services’ project restored 5 traditional water sources from Kirtipur and Godawari Municipalities and protected source of three water supply schemes of Godawari Municipality.

With this, WASH facility for solid waste management workers was also constructed in Kirtipur Municipality.



3.1 WASH SDG in Nepal

Status: Ongoing

Project Partner: WASH Alliance International (WAI)
Consortium partner for 1st Phase: 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 Area: All wards of Bheriganga Municipality & Barahatal Rural Municipality of Surkhet District, Karnali Province.
Project Duration: July 2018 – June 2020 (Phase I) Completed July 2020- September 2022 (Phase II)

Objective:
 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 goal “Sustainable and equitable use of WASH by all”. With the support of WAI, ENPHO in collaboration with WAI consortium partner organizations have completed the first phase of the project (1 July 2018 to 30 June 2020). Demand generation from the community, ensuring an enabling environment by local government and promoting female led WASH entrepreneurs have been the major achievements of this phase of the project. The second phase of the project (July 2020 to September 2022) will ensure demand from community and local stakeholders through coordination and collaboration with private entrepreneurs and cooperatives, focusing the public pathways of project intervention. For

this, ENPHO is collaborating with four different sectors under the public sector pathway, including local government, Water and Sanitation Users' Committee (WSUC), Education and Health Care Institutions (HCIs).

Project Outputs:

COVID-19 Response:

- During second wave of the COVID-19 pandemic, 25 sets of PPE sets, surgical masks, surgical gloves, sanitisers, and disinfection sprays were supported to the COVID Hospital and Isolation Centers of Bheriganga Municipality and Barahatal Rural Municipality for infection and prevention control.
- Raised public awareness about the significance of personal hygiene and the necessity of handwashing by airing PSA through local FM station and information boards in various public places.

Establishment of functional WASH section in Palika

- Appointed WASH focal person in both municipalities;
- Trained technical personnel of both municipalities on Fecal sludge treatment plant designing;
- Provided technical support to Barahatal Rural Municipality for the development of the Drinking Water Management Act 2077 and its endorsement.

School WASH

- Conducted ToT training on WASH in schools to the representatives of schools including WASH and gender focal persons. Municipal level School WASH advocacy committee was formed in both municipalities immediately after the training to advocate for WASH improvements in the schools;
- Conducted WASH improvement planning workshop in six schools of Bheriganga Municipality. Out of six schools, two have also improved their WASH facilities;
- Establishment of O&M fund in 4 schools for the improvement of WASH facilities in the schools;
- Celebrated International Women's Day through inter-school speech competitions in coordination and collaboration with Barahatal Rural Municipality and other organizations.

Capacity Development

- Conducted Training on SWASTHA Approach (Total sanitation and productive use of waste) to the project staffs of the partner organization;
- Organized orientation on City-Wide Sanitation Plan to the M-WASH-CC members of Bheriganga Municipality;
- Provided virtual orientation to Sireni WUCs, Ward 5, Bheriganga Municipality on Climate Resilient Water Supply Plan;
- Provided virtual orientation on Menstrual Hygiene Management on the occasion of Menstrual Hygiene Day.
- Provided virtual orientation on Total sanitation to the community people.



Enhancement of Entrepreneur’s Services

- Assisted BSF entrepreneurs for enhancement of WASH services by providing BSF mold and assistance in promoting their business through radio, social media and house visits.
- Development of flyers and airing PSA in local Radio FM for the promotion of the water quality mini labs.
- Airing PSA in local radio FM for the promotion of bio-sand filter production Company.

Increased WASH budget allocation

- With persistent advocacy, Bheriganga Municipality raised their budget by 14%, while Barahatal Rural Municipality increased their budget by 58% for WASH activities compared to the first year of project implementation.

Assessments

- Conduct assessment of water supply schemes in 31 water supply schemes from Bheriganga Municipality, where the municipality has allocated budget for water supply schemes improvement.
- Conduct assessment of schools and health care facilities from both project implementing municipalities to identify the WASH needs and supports required at the institutions.

Plans and Reports

- Development of Vulnerability Assessment Report and a draft WASH plan of both the municipalities. Besides, WASH improvement plans of 9 schools and 4 Climate Resilient Water Safety Plans of 4 Water Supply Schemes (WSS) were developed.
- Development of a Business plan for registered Bio-Sand Filter entrepreneurs for the sustainability of the business.

- Development of School WASH Improvement Plan for 3 schools in Bheriganga Municipality.
- Drafted a Contingency Plan for Barahatal Rural Municipality.
- Drafted a Detail Plan Report (DPR) on Waste Recovery and Resource Center for Bheriganga Municipality.

Supporting Municipality for Solid Waste Management:

- Conduction of Waste Market Assessment and waste categorization of households and market at Bheriganga Municipality to build foundation to understand sanitation status of municipality and also to support other corresponding waste management activities.
- Development infographics to illustrate the status on solid waste in Bheriganga municipality.
- Prepared an Environmental Assessment report of the proposed solid waste management site
- Designing and development of 3D model of the solid waste management site plan.
- Development of DPR for the waste management site plan.

Public toilet with business model:

- Construction of user's friendly public toilet with business model.
- Preparation of operation plan for public toilet.

Model Healthy Community:

- Selection of three communities including two Dalits to orient towards the declaration of healthy community.
- Distribution of flex with healthy home indicators to the each household
- Conduction of orientation on healthy home indicators to the total sanitation oriented community.
- Conduction of coordination meeting together with Biruwa Advisors Pvt. Ltd., Sahakarmi Samaj and community financial institutions for need assignment and WASH loan.

Monitoring and evaluation:

- Conduction of joint monitoring visit including municipal monitoring committee in the project area and collected the feedback from the participants.
- 43 households in Golepark Tole were monitored on Health Home Indicators under the Total Sanitation approach.

Visual demonstration

- Incorporation of Improved toilet designs into the visible copy to make it easier for those who want to modify and enhance their existing latrines.
- Development of flex on Healthy Home Indicators to distribute for model community.
- Development of flyers for the promotion of WASH services providing by WASH entrepreneurs and Minilab.
- Installation of an information board on Septic Tank Design and its components at the premises of the municipality office.

WASH improvement in Municipality

- Bheriganga Municipality has started to work for the construction of Waste recovery and resource center by under laying the accessible road up to the proposed site.

Hardware Intervention			
		Quantity	Beneficiaries
Water	Rehabilitation of Tijupani Water Supply Schemes, BRM	12	51
	Foot operated hand washing station rearranged at schools and Health Institutions.	10	
Sanitation	Construction of Public Toilet (business model)	1	Per day - 75 People
	Construction of gender and child friendly toilet in 2 schools	2 Schools	291
	Installation of RTI toilets at schools and flood affected areas	10	
Hygiene	Emergency medical supplies support at hospital and isolation center during 2 nd wave of COVID -19	2 Municipality	79

Major Achievements:

- Raised public awareness about the significance of personal hygiene and the necessity of handwashing at both the municipalities;
- Development of O&M fund guideline and its endorsement by these two schools.
- Re/formation of School WASH-CC in all selected 6 schools of Bheriganga Municipality.
- Formation of Child Club in Nepal Rashtriya Aadharbhut Bidhyalaya, Sitapur.
- Capacity Enhancement of project staff through participation in different project related training and workshops. (CWIS, Total Sanitation, WASH FIT, Report Writing Training, CRWSP).
- With a persistent advocacy and lobby, both municipalities have processed for budget allocation on WASH for upcoming fiscal year through publication in red book (Municipal Annual Development Plan).
- Bheriganga Municipality has initiated to work for the construction of Waste recovery and resource center.

Beneficiaries:
Total Beneficiaries from the project

68,209
People Reached
(32,131 Male & 36,078 Female)

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: **Phase I:** January 2020 to December 2020 (Completed)
Phase II: January 2021 to December 2021 (Ongoing)

Objective:

Phase I:

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

Phase II:

To contribute to an improvement in people's living condition and reduce the health and environmental risks associated with inadequate water supply and sanitation.

Project Description:



It is essential to step towards sustainable management of water and sanitation services through integrated approaches incorporating various urban issues. Hence, ENPHO, in partnership with BORDA, implemented “Integrated Urban Water Management at the Center of Municipal Services” project in Godawari and Kirtipur municipalities.

The specific objectives of the project are 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.

Phase II is the continuation of this project where the project envisions to support small and medium towns for improving municipal water and sanitation services to be provided to disadvantaged citizens. The specific objectives for phase II of the project include:

- Improving infrastructure provision (integrated/decentralized solutions as pilot demonstrations) and sustainable services delivery;
- Strengthening institutional and personnel capacity of municipalities;
- Improving the systems, guidelines and standards to introduce integrated/decentralized water and sanitation solutions;
- Advocating on water and sanitation agendas of small municipality and the decentralized and integrated approach.

Project Outputs:

Phase I:

- Conducted rapid assessment on Integrated Urban Water Management and generated City Blue Print Index for Godawari and Kirtipur Municipalities;
- Prepared strategic plan for solid waste management of Godawari Municipality;
- Conducted and published detail report on performance assessment of six water supply schemes in Godawari Municipality;
- 7 different trainings and capacity building exercises undertaken for external stakeholders;
- Installed 6 units of chlorine dosing units at five water supply schemes of Godawari Municipality;
- Source protection of three water supply schemes of Godawari Municipality;
- Source protection with leakage improvement for one water supply scheme in Godawari Municipality;
- 5 traditional man-made water sources restored from Kirtipur and Godawari Municipalities;
- 14 sets of ENPHO Water Quality Test kits distributed to different WSUCs of Godawari Municipality;
- Provided sanitation equipment (PPEs Sets) to both the municipalities;
- Installed pedal operating handwashing stations at 14 places of Godawari and Kirtipur Municipalities;
- Installed 35 contactless taps at various locations of Godawari Municipality, Kirtipur Municipality and Bajrabarahi Chapagaun Hospital Building.
- Constructed a well facilitated toilet in the Bajrabarahi Chapagaun Hospital in Godawari Municipality;
- Constructed WASH facility for solid waste management workers in Kirtipur Municipality;
- Provided a vehicle and a shredding machine to Kirtipur Municipality for the collection and efficient composting of biodegradable solid waste;
- Installed hoarding board on proper handwashing behavior at critical times in Godawari and Kirtipur Municipalities;

- Published Rapid Assessment Reports on IWM for Godawari and Kirtipur Municipalities, brochures on IUWM, FSM, Rapid Assessment on IWM.



Phase II:

- Developed baseline assessment report on WASH of Kirtipur and Godawari Municipalities;
- Developed five concepts notes for water source protection Godawari, Fecal Sludge Treatment Plant Godawari, Traditional water source protection for both the municipalities, wastewater treatment plant for Kirtipur, and components for water supply schemes Godawari;
- Conducted assessment of existing public toilets at Godawari and preliminary assessment of wastewater treatment plant at Thaiba, Godawari;
- Developed operation plan for WASH facility of Kirtipur and drafted improvement plan of Public Toilet, Chapagaun.
- Conducted municipal capacity assessment and developed list of prioritized training to guide capacity building activities among the municipal officials and relevant stakeholders;
- Conducted water sources mapping and developed GIS maps for Godawari Municipality;
- Celebrated World Water Day 2021.

Major Achievements:

Phase I:

- Application of City Blue Print Framework for rapid assessment of IUWM;
- Preparation of Strategic Solid Waste Management Plan;
- Successful demonstration on renovation of five traditional water sources;
- Set standard for water source protection;
- Demonstration of WASH facility for sanitation workers;

- Successful demonstration of WASH facility to address sanitation and hygiene need of frontline workers, benefitting 50 sanitation workers;

Phase II:

- WASH facility inauguration and handover to Municipality;
- Designs taken up from local ward and municipality after virtual handover of design, estimation of 2 traditional water spouts for Kirtipur. Preliminary sites visit for 5 water spouts and initial design developed for Godawari;
- GIS maps developed under water sources mapping has been taken forward by the municipality in planning improvements of WSSs.
- Concepts notes developed to initiate the DPRs and Project proposals;

Beneficiaries:

Beneficiaries from the Project:

65,602 People: Kirtipur Municipality
1,16,045 People: Godawari Municipality



23,634 people: Phase I
2,800 people: Phase II

4. Emergency WASH and Disaster Risk Reduction

Under the thematic program “Disaster Risk reduction”, ENPHO implemented **8 projects** with the support of UNICEF Nepal and Oxfam benefitting **20, 95,601 people**.

ENPHO, with the support of Oxfam carried out ‘Purnima’ project and handed over 9 water supply schemes to respective water user and sanitation committees and rural municipalities in Southern Lalitpur.

Likewise, this year, ENPHO carried out 7 projects for COVID-19 response. ENPHO with the support of Oxfam has been implementing “Hygiene and Behaviour Change Coalition (HBCC) project with Mum's Magic Hand (MMH) tools as a one of the effective tools for behaviour change in regard to handwashing. The project promoted gender norms and equal distribution of hygiene and health related care work among women and men at the household and community level.

During the second wave of COVID-19, ENPHO supported hospitals with the supply of essential materials required for prevention, medical supplies and organized awareness raising events virtually to enhance the knowledge among general public.



4.1 Post-Earthquake Reconstruction WASH in Nepal (PURNIMA)

Status: Completed

Project Partner: Oxfam

Project Area: 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 15 July 2021)-Lot 4

Objective:

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

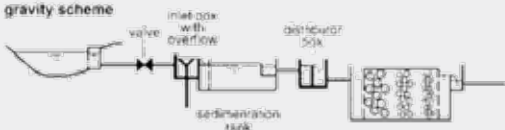


Project Description:



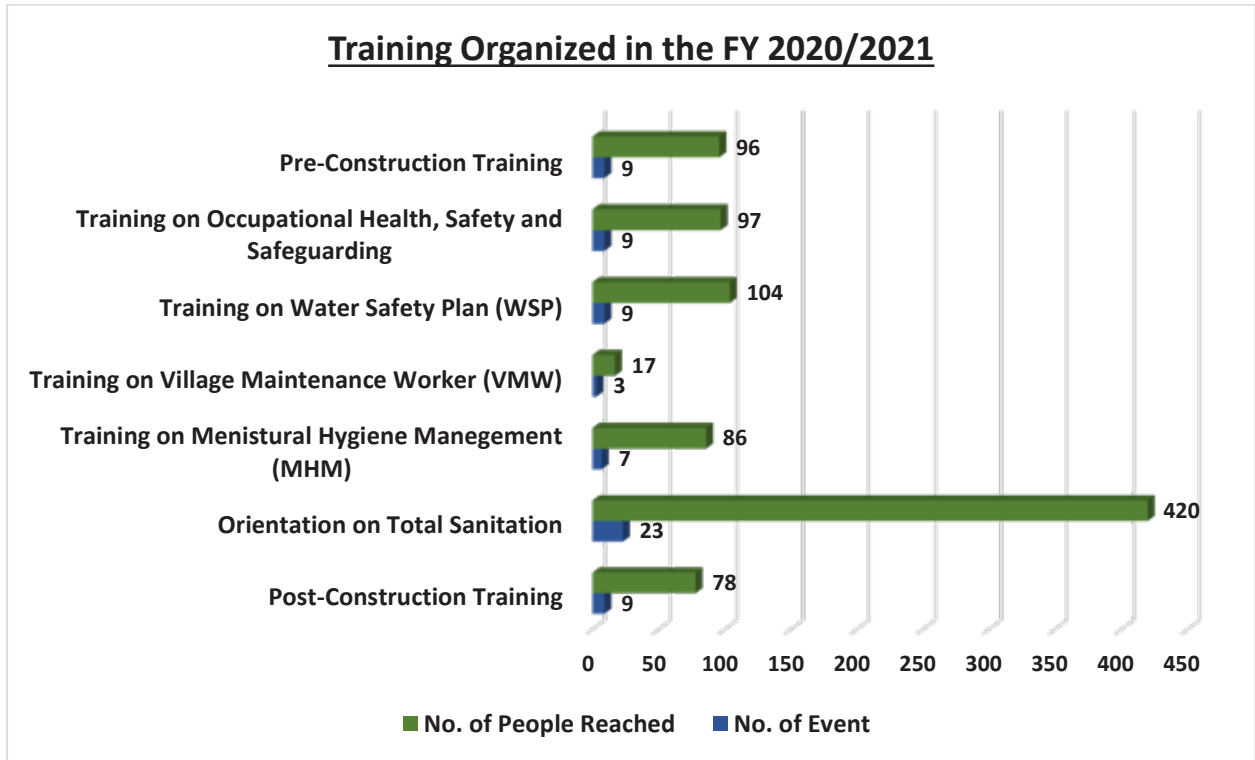
In order to provide access to safe, adequate and sustainable water supply services to the most vulnerable and excluded households of earthquake affected communities, PURNIMA project is working in three Gaupalikas (Rural Municipalities) of southern Lalitpur: Bagmati Rural Municipality, Mahankal Rural 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 got to implement Lot 3 and Lot 4 phase of the project. The Lot 4 phase focused 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:

 <p>Water Supply Schemes</p>	<p>9 disaster resilient and gender friendly Water Supply Schemes (WSSs) developed at Southern Lalitpur</p> <ul style="list-style-type: none"> • 2 WSSs at Bagmati Rural Municipality • 2 WSSs at Konjyosom Rural Municipality • 5 WSSs at Mahankal Rural Municipality
 <p>Household Tap Stand</p>	<p>370 HH tap stand constructed at 9 Water Supply Schemes:</p> <ul style="list-style-type: none"> • 83 HH tap constructed at Bagmati Rural Municipality • 51 HH tap constructed at Konjyosom Rural Municipality • 236 HH tap constructed at Mahankal Rural Municipality
 <p>Institutional Tap Stand</p>	<p>14 institutional tap stand constructed at 9 Water Supply Schemes:</p> <ul style="list-style-type: none"> • 5 Institutional tap constructed at Bagmati Rural Municipality • No Institutional tap constructed at Konjyosom Rural Municipality • 9 Institutional tap constructed at Mahankal Rural Municipality

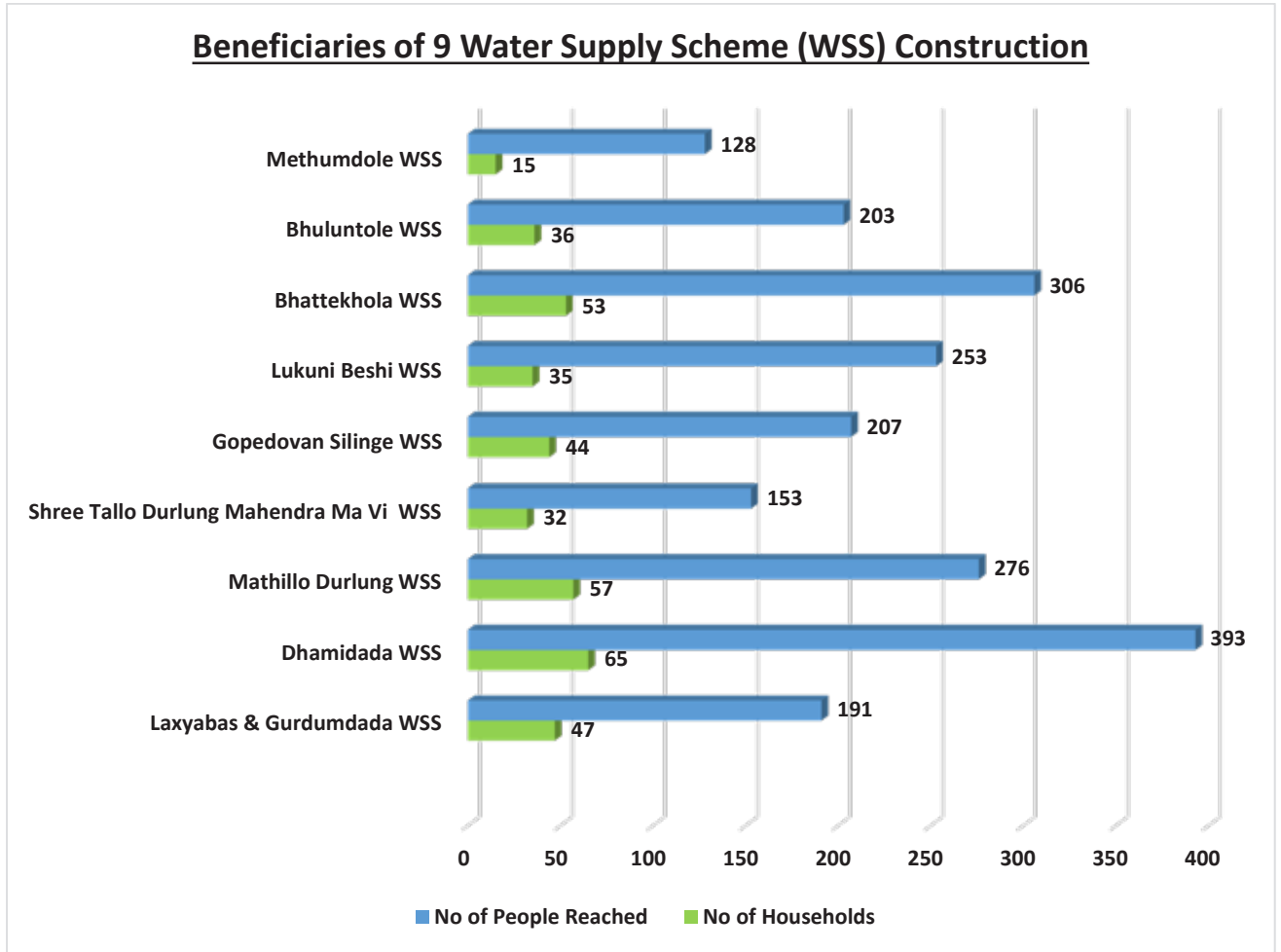
- 9 Water Supply Schemes developed Water Safety Plans and are being applied;
- Handed over 9 water supply schemes to respective water user and sanitation committees and rural municipalities.
- Institutional capacity developed as following:
 - 9 Water Users and Sanitation Committees (WUSCs) and water sources registered at ward level;
 - 97 people trained on Occupational Health, Safety and Safeguarding (OHSS);
 - 96 people trained on pre-construction training;
 - 104 people trained on Water Safety Plan (WSP) development;
 - 17 people trained on Village Maintenance Worker (VMW);
 - 78 people trained on post construction training.
 - 86 adolescent girls and community woman’s trained on Menstrual Hygiene Management-MHM (Making Homemade Sanitary Pad)
 - Knowledge enhancement of 420 community people.



Major Achievements:

- Trained 83 WUC on roles and responsibilities related to planning, implementation, O&M of Water Safety Plan (WSP);
- Developed Report on Water Safety Plan and Village Maintenance Worker- VMW Training Manual;
- 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 showed their dedication and concern for the sustainability of the constructed schemes.

Beneficiaries:



<i>Name of Rural Municipality</i>	People reached	Households
<i>Bagmati Rural Municipality</i>	559	88
<i>Mahankal Rural Municipality</i>	1220	245
<i>Konjyosom Rural Municipality</i>	331	51

Total Beneficiaries from the project
384 Households



2,110 People Reached



4.2 Hygiene and Behaviour Change Coalition (HBCC)

Status: Completed

Project Partner: Oxfam,
Funded by: DFID/Unilever
Project Area: Mahalaxmi Municipality, Lalitpur District
Project Duration: April 2020 - March 2021

Objective:

This project focused on improving prevention and reduction of COVID-19 infection risk with focus on the most vulnerable regions and populations.

Project Description:



Nepal, first reported the COVID-19 case in January 2020, and the graph shows the increase in COVID-19 cases 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 increasing public health threats.

In response to this, ENPHO with the support of Oxfam implemented “Hygiene and Behaviour Change Coalition (HBCC)” Project in Mahalaxmi Municipality, Lalitpur. Adopting Mum's Magic Hand (MMH) tools as one of the effective tools for behaviour change in regard

to handwashing, this project focused on prevention and reduction of COVID-19 infection risk focusing on the most vulnerable regions and populations.

Project Outputs:

- Completed baseline assessment;
- Conducted School Level Essay competition on ‘Role of Men in household work’ at public schools;
- 16 days Campaign against Gender Violence was carried out via:
 - Photo competition using social media platform
 - Disseminating messages through SMS benefiting 5,595 people
- Installed 10 hoarding boards with different messages related to COVID-19, hand-hygiene, gender norms and care work at each ward of municipality;
- Broadcasted radio PSA on gender and care work through National FM reaching 5,00,000 people;
- Boosting of Flyer related to Handwashing on Social Media reaching 77,292 people;
- Broadcasted two videos related to COVID-19, handwashing and gender care work on National TV for 6 weeks reaching 5,00,000 people;
- Distributed IECs from help desk of Municipality;
- Two events of interaction program on Gender and Care Work were carried out where
 - 11 religious individuals discussed their perspective and understanding on gender and care work; and
 - 48 local stakeholder including municipal council member and wards member shared their understanding on the same issue.



Distribution of HWS Quantity: 1050 Beneficiaries: 4303	Installation of foot operated HWS Quantity: 22 Beneficiaries: 1660 Per Day
Distribution of Electrical Kettle Quantity: 381 Beneficiaries: 1488	Distribution of Isolation Kit Quantity: 400 Beneficiaries: 400



Focused Group Discussion 205 Events Beneficiaries: 2302 people	MMH Sessions 729 Event Beneficiaries: 1042 people
Mobile Booth and Maskmandu Campaign 10 Events Beneficiaries: 1406+2800 people	Orientation on MMH 1 Event Beneficiaries: 48 stakeholders

<p>Training on Gender and Care Work</p> <p>1 Event Beneficiaries: 10 MMH champions</p>	<p>Training of Trainers on MMH</p> <p>1 Event Beneficiaries: 10 MMH champions</p>
<p>Orientation on Operation and Maintenance of foot operated hand washing station (HWS)</p> <p>1 Event Beneficiaries: 14 Caretakers</p>	<p>Orientation on Psychosocial Counselling - Project Team</p> <p>1 Event Beneficiaries: 12 people</p>
<p>Orientation on Psychosocial Counselling - Community Level</p> <p>7 Event Beneficiaries: 158 people</p>	<p>Orientation on Psychosocial Counselling - Community Level</p> <p>7 Event Beneficiaries: 158 people</p>
<p>Orientation on Psychosocial Counselling - Individuals</p> <p>1 Event Beneficiaries: 63 people</p>	<p>Discussion Program on Gender Stereotypes Celebration of Women's Day</p> <p>1 Event Beneficiaries: 41 people</p>

Major Achievements:

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

Beneficiaries:

Total Beneficiaries from the project



1,032,336 people
(11,281 Direct Beneficiaries)

4.3 COVID 19 Response Project (1st)

Status: Completed

Funded by: Individual donations from Bill and Melinda Gates Foundation

Project Area: Lalitpur Metropolitan City: Ward no 8, 11, 26 and
Kirtipur Municipality: Ward no 5 and 8

Project Duration: May - June 2021

Objective:

- To support to establish community isolation centre and upgrade existing isolation centres
- To support to minimize the COVID 19 transmission at community level

Project Description:

This project was funded by individual donor in partnership with Bill and Melinda Gates Foundation and was implemented by ENPHO at COVID 19 affected areas of Lalitpur metropolitan city and Kirtipur Municipality within valley. This project was designed to carry out COVID 19 response during the pandemic situation. The project activities led to establish and upgrade existing community level isolations centers.



After the outbreak of second wave of COVID 19 in Nepal, looking through the WASH perspective, new activities were designed. According to the plan, quick response and support of essential materials were provided to isolations centers and COVID 19 hospitals.

Project Outputs:

- Supported Isolation materials at: Subahal Isolation Centre, Lalitpur; Shree Chandi Isolation Centre, Lalitpur; Sunakothi Isolation Centre, Lalitpur; Panga Isolation Center, Kirtipur;
- Provided regular food service for 10 days.

Major Achievements:

- Altogether, 4 community isolations centres were upgraded and are now effectively providing services to the people with severe and mild illness of COVID 19 virus at their communities;
- Altogether, 2000 COVID 19 affected person received regular food service for 10 days.

4.4 COVID 19 Response Project (2nd)

Status: Completed

Funded by:	Individual donations from Bill and Melinda Gates Foundation
Project Area:	Kathmandu Metropolitan City: Ward no 10; Thimi Municipality and Changuarayan Municipality
Project Duration:	May - June 2021

Objective:

- To support to establish community isolation center and upgrade existing isolation centres;
- To support to minimize the COVID 19 transmission at community level.

Project Description:

This project was funded by individual donor in partnership with Bill and Melinda Gates Foundation and was implemented by ENPHO at mostly COVID 19 affected areas of Kathmandu Metropolitan City, Thimi Municipality and Changuarayan Municipality.

This project is designed to carry out COVID 19 response during the pandemic situation. The project activities led to establish and upgrade existing communities level isolations centers. After the outbreak of second wave of COVID 19 in Nepal, looking through the WASH perspective, new activities were designed. According to the planning, quick response and support of essential materials were provided to isolations centers and COVID 19 hospitals.



Project Outputs:

- Supported Isolation materials at: KMC: Ward no. 2, Nepal Korean Friendship Municipality Hospital, Bhaktapur; Changuarayan Municipality, Bhaktapur; Chhetrapati Nishulka Chikitsalaya, Kathmandu;

Major Achievements:

- Altogether 4 community isolations centres were upgraded and are now effectively providing services to the people with severe and mild illness of COVID 19 virus at their communities.

4.5 Isolation Center Support Project

Status: Completed

Funded by:	Individual donation from Bill and Melinda Gates Foundation
Project Area:	Kathmandu and Lalitpur Metropolitan City and Bhaktapur Municipality
Project Duration:	May - June 2021

Objective:

- To support to establish community isolation centre and upgrade existing isolation centres;
- To support to minimize the COVID 19 transmission at community level.

Project Description:

This project was funded by individual donor in partnership with Bill and Melinda Gates Foundation and was implemented by ENPHO at mostly COVID 19 affected areas of Kathmandu and Lalitpur Metropolitan City.



This project is designed to carry out COVID 19 response during the pandemic situation. The project activities led to establish and upgrade existing communities level isolations centers. After the outbreak of second wave of COVID 19 in Nepal, as per the rapid need assessment activities were designed. According to the planning, quick response and support of essential materials were provided to isolations centers and COVID 19 hospitals.

Project Outputs:

- Supported Isolation materials at: Kathmandu Model Hospital, Kathmandu; Ananda Kuti Isolation center, Kathmandu; Sarada High School, Kathmandu; Bagdol Isolation Center and Sunakoti Isolation Center, Lalitpur;
- Provided regular food service at Kathmandu and Lalitpur;
- Altogether 4 hand washing station installed in four isolation centres;
- Altogether 6 Oxygen Concentrator handover in six isolation centres;

Major Achievements:

- Altogether 4 community isolations centres were upgraded and are now effectively providing services to the people with severe and mild illness of COVID 19 virus at their communities
- Altogether 1500 COVID 19 affected person received regular food service for 10 days.

4.6 Emergency COVID 19 Support- Rapid Action Task Force Project

Status: Ongoing

Project Partner:	Bill and Melinda Gates Foundation
Funded by:	City Wide Inclusive Sanitation Technical Assistance Hub in South c/o Dev Consultants Limited
Project Area:	Kathmandu and Lalitpur Metropolitan City
Project Duration:	June - September 2021

Objective:

- To conduct rapid need assessment of COVID-19 hospitals and community isolations on bio-medical equipment;
- To provide bio-medical support for installation, repair and maintenance of bio-medical equipment in the COVID-19 hospitals and community isolations centres based on the assessment conducted;
- To help establishing database and creating advocacy materials on COVID-19 awareness and infection prevention.

Project Description:

This project is funded by City Wide Inclusive Sanitation Technical Assistance Hub In South c/o Dev consultants Limited and being led by ENPHO for implementation in partnership with two others NGOs The Small Earth Nepal (SEN) and Biomedical Engineering Foundation Nepal (BEFON).

This project is designed with an objective of providing COVID-19 response during the pandemic situation. The project activities will lead to coordinate collective expertise, capabilities, and resources to provide data-driven, real-time insights to improve COVID-19 situation in Nepal. The designed activities will support rapid task force team on COVID 19 response.



Project Outputs:

- Repair and maintenance of bio medical equipment of existing communities level isolations centers;
- Supported for developing database, website management, designing of advocacy materials to raise awareness on COVID 19;
- Conducted Rapid Need Assessment at public COVID-19 designated hospitals using 4G LTE communication;
- COVID-19 material supported to Godawari Municipality, Lalitpur.

Major Achievements:

- One Isolation Centre has been upgraded and is providing services to the people with severe and mild illness of COVID 19 virus in their communities

- Support for installation, repair, and maintenance of bio-medical equipment in 5 Community Hospitals and Isolation Centers within Kathmandu valley: CFC Community Hospital, Chhatrapati; Ganesh Man Singh Memorial Hospital and Research Center, Lalitpur; Ktm -17 Ward's Isolation Center; Friendship Community Hospital, Sokedhara and Radhaswami Covid Isolation and Oxygen Therapy Center
- Validated information were collected from various sources into a single platform via website. (<https://nepalrat.org/>) of CRAT 19.

4.7 Emergency COVID 19 Support- Rapid Action Task Force (C-19 RAT) Project

Status: Ongoing

Project Partner: CNCA (Calgary Nepalese Community Association), NHCF (Nepali Heritage Charity Foundation)

Project Area: Ramechhap, Sindhuli, Ilam, Kavre, Dolakha, Mugu, Bajura, Makwanpur

Project Duration: June, 2021 - August 2021

Objective:

To provide an aid to needy people and communities during second wave of COVID 19.

Project Description:

With a collaborative effort of five different organization, ENPHO on behalf of C-19 RAT provided an overall management for this project. This project is funded by CNCA, NHCF and was led by COVID 19 Rapid Action Taskforce (C-19 RAT). The collaborative taskforce was formed to provide rapid support to hospitals, isolation centers, communities and government both at central and local levels to minimize the casualties. This project provided medical and oxygen supply support to isolation centers and holding centers, provide technical support in repair and maintenance of biomedical equipment in hospitals, and provide food relief materials to people affected by COVID 19 lockdown situation.



Project

- Support to unprivileged community with food package to provide an aid to run livelihood from the food crisis the people were facing in lockdown;

Outputs:

- Contribute medical resources and oxygen supplies to isolation centers established by local governments to fulfill the needs of medical requirements for COVID patients;
- Repair and maintenance of bio-medical equipment in different government health centers, to form a well-equipped medical centers.

Major Achievements:

- Food package distribution in three districts (60 families in Mugu, 64 families in Chepang community, Makwanpur; and 51 families in Bajura)
- Supported with medical resources and oxygen supplies to 10 isolation centres of 5 different districts (Ramechhap, Sindhuli, Kavre, Dolakha and Ilam)
- Repair and maintenance of bio-medical equipment in three Primary Health Care Centres (PHCCs) and one district hospital.

4.8 Nepal Mask: COVID-19 Response Project

Status: Ongoing

Project Partner: Yale University and Innovative Poverty Action (IPA)

Funded by: Bill and Melinda Gates Foundation (BMGF)

Project Areas: Madhyapur Thimi Municipality, Bhaktapur; Kathmandu Metropolitan City, Kathmandu; Lalitpur Metropolitan City, Lalitpur; Melamchi Municipality, Sindhupalchowk; Koshi Rural Municipality, Sunsari

Project Duration: June 2021 - August 2021

Objective:

To sensitize and educate the general public on proper use of masks adopting the SBCC tool as NORM intervention at various locations of Nepal to prevent from COVID-19.

Project Description:

“Nepal Mask: COVID-19 Response Project” will be implemented at various hotspot areas of Nepal with the support of Bill and Melinda Gates Foundation and Yale University. ENPHO and SEN a consortium partner of C-19 RAT is executing the project collaboratively with a motive to provide data-driven, real-time insights for improving COVID-19 situation in Nepal. To trigger on behaviour change of general public for proper use of mask, the project is adopting a NORM (No-cost mask distribution, Offering information, Reinforcement, Modeling) approach.

The NORM approach has been tested and applied by Yale University at various parts of Bangladesh and now being adopted by various countries. In Nepal, project will start from the hotspots identified based upon the CCMC vulnerability data mapping and real time data considering high COVID—19 case rates, increasing trajectory, large population, high density of people, low levels of mask wearing. This project will aim to increase the proper use of masks and reduce the spread of COVID 19 through implementation of SBCC tool in the most affected areas.

Project Outputs:

- Volunteers, health workers, FCHVs will be trained on implementation of NORM

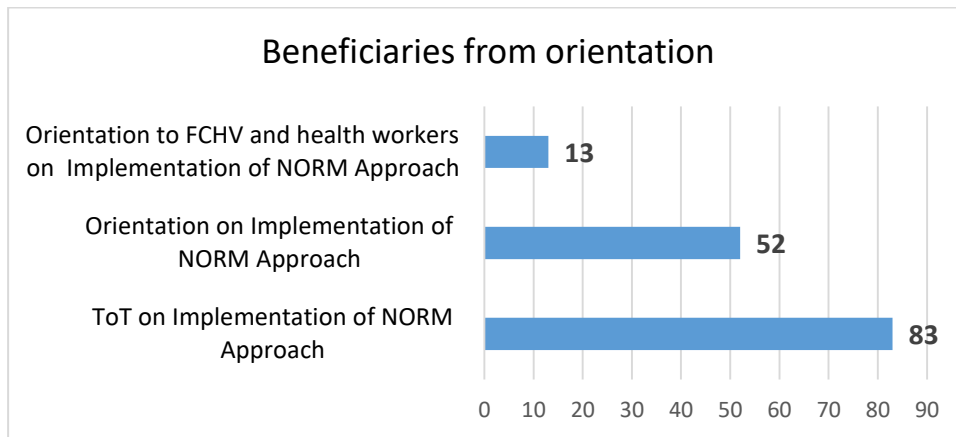
approach;

- Community people will be triggered on proper use of Mask;
- Increased number of people on wearing mask.

Major Achievements:

- The NORM approach will be endorsed by CCMC;
- The project intervention will gain Local Governments support and ownership;
- The community people will be sensitized on proper use of mask through National level media advocacy.

Expected Beneficiaries



4.9 WASH and COVID-19 Response Program

Status: Ongoing

Project Partner: UNICEF

Project Area: 6 different Hospitals across Bagmati Province: Bir Hospital, Civil Service Hospital, Bhaktapur Hospital, Dhulikhel Hospital, Teaching Hospital and National Ayurvedic Research and Training Center

Project Duration: March - November 2020

Objective:

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

Project Description:



UNICEF, being 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 regard 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:

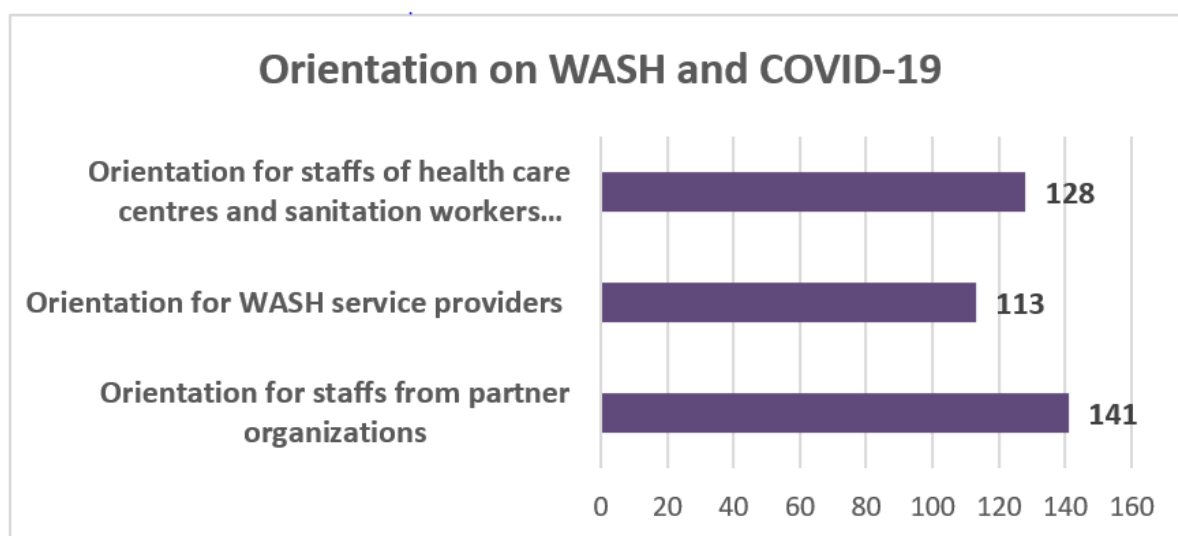
- WASH Assessment conducted at 7 Hospitals: Bir Hospital, Bhaktapur Hospital, Civil

Hospital, Armed Police Hospital, Patan Hospital, Teku Hospital and Dhulikhel Hospital to know the existing WASH situation in the HCF.

- Based on the results of the Rapid WASH Assessment, WASH improvements were done in health care facilities in tackling issues related to hygiene, water supply and storage, and waste management during COVID-19.

Hospital	Major WASH Improvements
Bir Hospital	<ul style="list-style-type: none"> • Maintenance of existing reservoir tank capacity of 30,000 liters and collect rejected water from RO filter. • Improvement of existing toilets with proper ventilation and light. • Installation of foot pumps, contactless handwashing station near existing toilets.
Bhaktapur Hospital	<ul style="list-style-type: none"> • Maintenance of existing water filter • Installation of 10,000-liter water storage • Improvement of collection center for Health Care Waste Management
National Ayurvedic Research and Training Center	<ul style="list-style-type: none"> • Construction of 7 bathing units for COVID patients. • Construction of 2 bathing units for health workers. • Improvement of Toilets for health workers. • Construction of COVID Waste collection station. • Cleaning and Disinfection of Underground RCC Tank of 50,000 liters capacity
Civil Service Hospital, Dhulikhel Hospital and TUTH	<ul style="list-style-type: none"> • Installation of 20 foot valves in the existing handwashing tap

- To prepare school for its safe reopening, a handwashing stations in Shanti Nikunja Secondary School was improved with a contactless hand wash facility.
- Conducted 4 events of Online Orientation on WASH and COVID-19 to UNICEF local partners (KIRDAC, NRCS, NEEDS Nepal, NCV, SDPC, Garivi Ni Kendra PEC, Campaign Nepal for Research & Development, Himali Rural Youth Social Development Center, Chay Ya Nepal, Khatyad Rural Municipality) covering total participants of 141 staffs.



- Conducted 6 events of Orientation on WASH & COVID-19 including IPC to service providers including Fecal Sludge Operators, Private Tanker Operators and Solid Waste Collectors. Overall, 113 service providers were oriented.
- 225 staffs of Bhaktapur Hospital, Dhulikhel Hospital, Civil Hospital, Bir Hospital, and TUTH hospital including housekeeping staffs, maintenance staffs, nurses were trained on WASH and IPC emphasizing on importance of disinfecting techniques and personal safety.
- Development of 2D silent animated disable friendly video messages (2 minutes) WASH and COVID for general public and health care sanitation workers.
- Development of information boards/the forex of Handwashing/WASH indicating appropriate IPC precautions and required personal protective to disseminate knowledge for health care sanitation workers.
- Development of COVID and WASH Poster and boosted in social media to reach out and aware large number of populations.
- Volunteer mobilization for one-to-one message dissemination, stand up campaign, dummy act campaign to disseminate messages and aware various groups of people with a special focus on people walking around a local market, local shopkeeper, old-age group, and street vendors in Kathmandu and Bhaktapur on the occasion of Global Handwashing Day.
- Installation of a pedal operated handwashing station in high-density low-income community which is slum area of Sankhamul and Thapathali.
- Delivery of different WASH materials in the hospitals as mentioned below:



Major Achievements:

- WASH improvements carried out in 7 different health care facilities;
- Training Packages developed on WASH and COVID-19 targeting WASH Professionals, partner organization staffs and service providers;
- Online Orientation on COVID-19 and WASH for WASH Professionals, frontline workers of health care facilities;

- Online Orientation on Cleaning and Disinfection of Environmental Surfaces in School;
- 3-Days Training on Health Care Waste Management;
- Design and Estimate Tools of WASH Facilities: For Quarantine and Isolation Center

Beneficiaries:

Total Beneficiaries
1,056,632



5. Research and Development

5.1 Data Collection Survey on Water Supply and Sanitation Management of Major Cities of Nepal

Status: Ongoing

Project Partner: Japan International Corporation Agency (JICA)

Project Area: Dharan, Itahari, Kalaiya, Jitpur Simara Nepalgunj, Ghorahi, Dhangadi, Tulsipur Sub-metropolitan City, Bharatpur and Biratnagar Metropolitan City

Project Duration: November 2019 - November 2021

Objective:

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;



- To 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 Cities was completed;
- 80 water samples from various sources and taps were collected and analyzed from 10 above mentioned major cities;
- Wastewater and fecal sludge samples from Bharatpur Metropolitan, Kalaiya sub-metropolitan and Jeetpur Simara Sub-metropolitan City were collected;
- Data on water supply schemes from Itahari, Biratnagar, Ghorahi, Tulsipur, Nepalgunj, Dhangadhi, Kalaiya, Jeetpur Simara and Bharatpur was collected.

5.2 Wastewater-based Epidemiology of SARS-CoV-2 for Averting COVID-19 outbreaks in Nepal (WESCAN)

Status: Ongoing

Project Partner: PATH

Project Area: Kathmandu Valley and Dhulikhel, Kavrepalanchowk

Project Duration: January, 2021 to March, 2022

Aim:

The project aims to analyze various environmental samples, mostly wastewater and fecal sludge, to determine if SARS-CoV-2 is present in such environmental samples and if present it aims to find the correlation between the presence of SARS-CoV-2 in environmental samples and spreading of the Covid-19 in communities.

Project Description:

WESCAN project funded by PATH has the following objectives:

- To collect environmental samples from untreated and treated sewage, fecal sludge and river water from the study area and quantify the SARS-CoV-2 RNA;
- To determine correlation of SARS CoV-2 RNA copy numbers in sewage/sludge and river water with surging COVID-19 cases in respective communities.



Project Outputs:

- Out of eighteen rounds of sampling, fourth round has been successfully completed from twenty three sampling outlets out of twenty four sampling outlets;
- All the collected samples have been processed for SARS-CoV-2 detection;

- All the collected samples have been processed for physicochemical analysis;
- The project has supported to establish well equipped laboratory for SRS-CoV-2 detection at Microbiology department in Tribhuvan University.

6. WASH and Nutrition

6.1 Suaahara II

Status: Ongoing

Project Partner: USAID/HKI

Project Area:

Province 1 : Sankhuwasabha, Bhojpur, Solukhumbu, Taplejung, Panchthar districts
Bagmati Province: Dhading, Rasuwa, Nuwakot, Sindhupalchowk, Dolakha districts
Gandaki Province: Gorkha, Myagdi, Baglung, Lamjung, Syangja, Nawalparasi (East), districts
Lumbini Province: Nawalparasi (West), Kapilvastu, Rupandehi, Gulmi, Arghakhachi, Palpa, Rukum(East), Dang, Rolpa, Pyuthan, Bardiya, Banke districts
Karnali Province: Dailekh, Jajarkot, Rukum (West), Salyan and Surkhet districts
Sudur Paschim Province: Bajura, Darchula, Baitadi, Achham, Dadeldhura, Bajhang, Doti, Kanchanpur and Kailali districts

Project Duration: May 2016 - March 2023

Aim:

To improve nutritional status of women and children in Nepal

Project Description:

Suaahara II is a comprehensive community-focused project that has been implemented in 42 districts across Nepal. *Suaahara II* is dedicated to improving the health and nutritional status of 1000 days women and their children. The program is being implemented under consortium approach whereby ENPHO has been contributing to achieving Intermediate Result 1.2 i.e., “Household Adopts Essential WASH Actions”.



In continuation to previous years, year V also focused upon the promotion of two WASH behaviors; hand washing at six critical times and treatment of drinking water in all the wards of 42 districts. Also, healthy home behaviors have been promoted supporting for Total Sanitation campaign. Advocacy has been done with the Government of Nepal, particularly at

the local and provincial levels, to continue and scale up the campaign considering the importance of these types of campaigns for the prevention of malnutrition and diarrheal diseases. These include encouraging households to adopt WASH behaviors including handwashing with soap and water, safe drinking water, the importance of having a toilet, regular use and cleanliness of the toilet, safe disposal of baby's excreta, menstrual hygiene, food hygiene, clean indoor air, and clean household premises.

This year, technical supports have been provided to health facilities to improve WASH facilities and services in the health facilities. Health Facility Operation and Management Committee (HFOMC) s have been advocated to improve essential WASH services and facilities in the health facilities. It has also supported health workers and FCHVs to provide counseling on WASH behaviors to 1000-days household members through the relevant health platforms.

Project Outputs:

- Promoted WASH behaviors particularly hand washing and water treatment through home visits in 1,13,853 households and through tele-counselling to 8,83,454 households.
- Participated in 3,689 FCHVs network meetings and discussed on WASH behaviors.
- Organized 151 awareness events on Global Handwashing Day and World Toilet Days to discuss and promote WASH behaviors reaching 8,497 people.
- Provided on-site coaching to 9,331 FCHVs of 42 districts on providing WASH counselling to 1000-days households during different contact points.
- Advocated municipal government to promote hand washing, and water treatment behaviors and to continue, scale up and replicate total sanitation campaigns by organizing 79 advocacy events.
- Carried out technical support visits to 312 health facilities in 31 districts and provided technical support to HFOMC members and health workers to improve WASH facilities and services including WASH counseling during MIYCN services and other interpersonal communication with 1000-days households.
- Coordinated with 26 bio-sand filter entrepreneurs of 9 Terai districts and provided support on social marketing, expanding their services and increasing accessibility of bio-sand filters in remote and unserved areas.
- Coordinated and provided follow up support to 222 previously trained tailors to prepare re-usable sanitary pads in quality products, branding and social marketing through on-site support visit and phone follow up.

COVID Response (From May until July 2021)

- Provided tele-counselling to 398 1000 days mothers and 404 FCHVs regarding COVID 19 risk and preventive measures.
- Provided telephone follow up support to 328 health facilities.
- Provided telephone follow up support to 219 WASH marts.

Major Achievements:

- Collaborated with private sectors and local outlets and established 128 new WASH Marts in 29 districts to increase access to water filter and other WASH commodities;
- Provided follow-up support to 269 WASH Marts through on-site field visit and 118 WASH marts remotely on branding, social marketing and community linkage.

7. Capacity Building on WASH

With the support of CAWST/GAC, WaterAid Nepal, ENPHO conducted 4 projects under the program “Capacity Building on WASH”, benefitting 9, 22,779 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 2,897 people on WASH, to deliver the key messages to improve the WASH behaviour of the community people. Likewise, under the ‘Development of training curriculum on FSM and FSTP’ project, ready to deliver a high-quality complete training package on FSM/FSTP with training material required for training delivery has been developed.



7.1 Strengthening Capacity of Education Stakeholders on School Reopening Focusing WASH Intervention and Public Health Measures

Status: Completed

Project Partner: UNICEF

Project Area: Sudurpaschim Province: Joroyal Rural Municipality, Kamalbazar Municipality, Badimalika Municipality, Bitthadchir Rural Municipality, Ramaroshan Rural Municipality,
Karnali Province: Khandachakra Municipality, Raskot Municipality, Shubha Kalika Rural Municipality, Kanaka Sundhari Rural Municipality, Chayanath Rara Municipality,
Lumbini Province: Bhume Rural Municipality, Sisne Rural Municipality, Rolpa Municipality, Triveni Rural Municipality, Chandrakot Rural Municipality, Dhurkhot Rural Municipality, Kali Gandaki Rural Municipality, Chatradev Rural Municipality, Pandani Rural Municipality, Rapti-Sonari Rural Municipality
Province 2: Siraha Municipality, Hanumannagar Kankalini Municipality, Ganeshman Charanath Municipality, Kamala Municipality, Bhangaha Municipality, Barhathawa Municipality, Chakraghatta Rural Municipality, Paroha Municipality, Karaiyamai Rural Municipality, Parsagadi Municipality

Project Duration: January 2021 - March 2021

Objectives:

- To support the government (federal, provincial, and local) to enhance capacity on safe school reopening focusing WASH and Public health measures;
- To support local level education stakeholders in the rollout of enhanced capacity on safe school reopening focusing WASH and Public health measures at the school level in different palikas;
- To intensify mass awareness on hygiene behaviors including cleaning and disinfection.

Project Description:

UNICEF being co-lead of Education Cluster in the education sector works closely with the government stakeholders in providing technical support for capacity enhancement. Concerning COVID-19 preparedness and response, UNICEF in partnership with ENPHO implemented the “Strengthening Capacity of Education Stakeholders on School Reopening Focusing WASH Intervention and Public Health Measures” with the main aim to strengthen/enhance the capacity of education stakeholders on safe school reopening including cleaning and disinfection.

The program focused on the capacity enhancement of different tiers of government (Federal, Provincial and Local level) Education stakeholders on School cleaning and disinfection process to support safe school re-opening. The program supported the local-level stakeholders in the rollout of school cleaning and disinfection orientation to school levels in different palikas. Similarly, it supported information and communication activities to raise awareness, knowledge, and understanding among the general population about

hygiene behaviors including regular cleaning and disinfection.

Project Outputs:

- Conducted virtual orientation on Guidance of School Reopening focusing on Safe reopening focusing WASH and public health measures including regular cleaning and disinfection to federal level education stakeholders mainly of officials from MoEST, CEHRD, Education Cluster members, MUAN, NARMIN, and different education networks like SMC Federation, CNT etc with total participants of 70-75 persons.
- Conducted 4 days face-to-face training on Safe School Operations, with an emphasis on WASH measures such as cleaning and disinfecting the school environment to provincial and local level education stakeholders across 4 Provinces (Sudurpaschim, Karnali, Lumbini and Province 2) covering total of 91 participants mainly of ETC Trainers, EDD, EDCU, education and health officials.
- Supported local level ToT participants in rolling out orientation for altogether 130 schools across 4 provinces.
- Development of 7 different IEC materials on School Cleaning and Disinfection to disseminate the knowledge and information.
- Supported 4 schools with cleaning and disinfection materials.
- IEC materials were boosted through official social media page to intensify the awareness among the general public reaching out to 402911 population.



Major Achievements:

- Capacity Development of different tiers of government (Federal, Provincial and Local level) Education stakeholders on School cleaning and disinfection process to support safe school re-opening
- Development of Online Orientation Manual, ToT Manual and Trainer Manual (Nepali).

Beneficiaries:

Total Beneficiaries from the project



4,03,072 Direct Reached
33,500 Indirect Reach

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

Status: Completed

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 - December 2020 (Extended)

Objectives:

- 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 was 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 was undertaken in five earthquake affected districts namely Dolakha, Kavrepalanchowk, Sindhupalchowk, Nuwakot and Dhading.

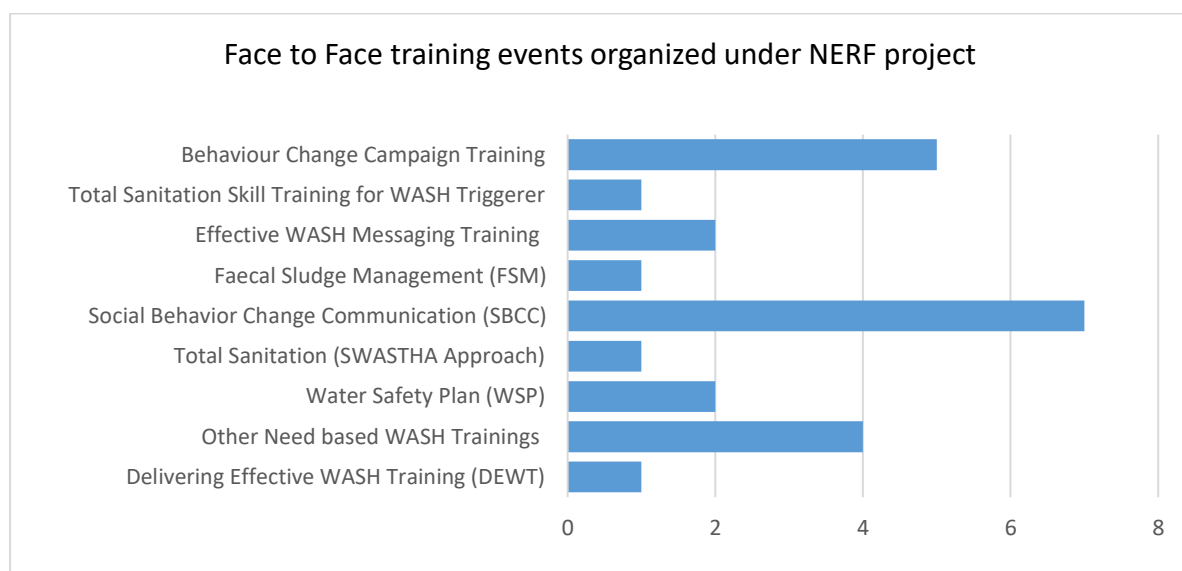
After outbreak of COVID 19 in Nepal, most of the pre-decided the project activities were halted due travel and mass meeting restrictions at the district and community level. In consideration to COVID 19 situation, new activities were designed to respond the situation from WASH perspective. The designed activities were more online based and WASH preventive measures so that local organization can aware community people on preventive measures to stop the spread of COVID 19. Similarly, massive hand washing campaign was designed to implement in



community using interpersonal communication and mass media channel.

Project Outputs:

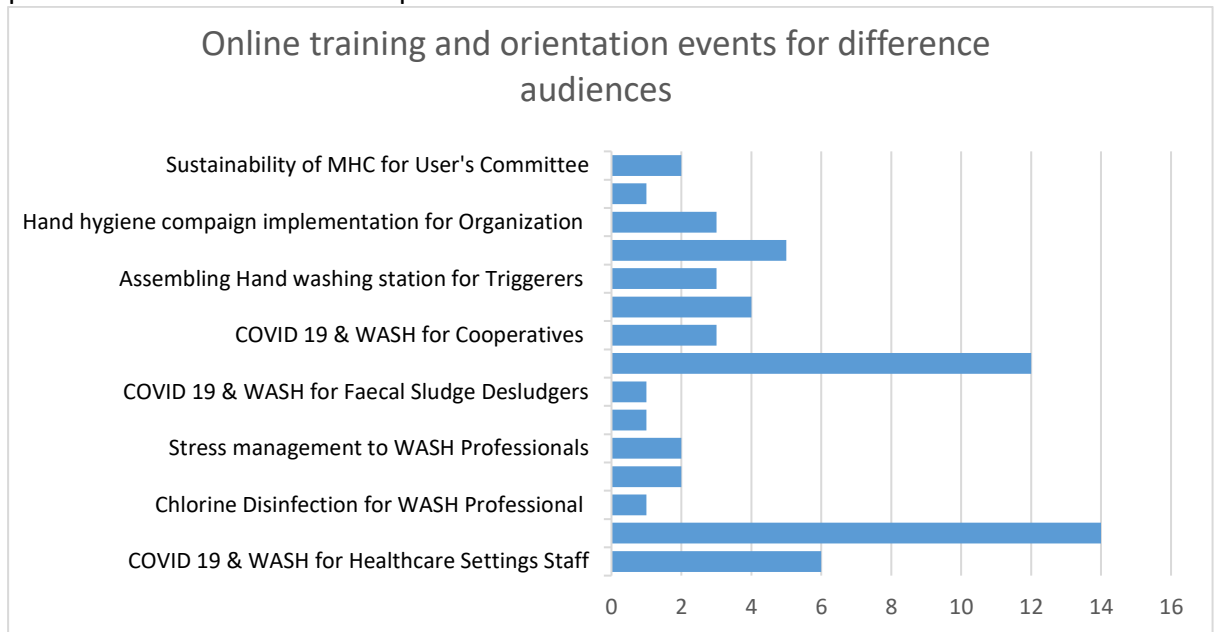
SN	Activities	Target	Progress	Participant/ Beneficiaries/ Remarks
1	Training package development	44	60	Include 28 online orientation package on COVID and WASH
2	IEC material development	20	41	Poster, flex, and pamphlets
3	Training events	94	103	1,823 participants from 122 organizations
4	Online sessions (COVID and WASH)	32	61	998 participants
5	Webinar (COVID and WASH)	0	3	190 participants
6	Learning exchange	3	2	58
7	Learning Documents	0	3	Handwashing, BCC and MHC
8	Virtual learning exchange	0	3	78
9	Institutional Case study	6	4	Individual 4 organization
10	Success Stories	0	10	2 per district



COVID 19 Response activities and outputs

- Conducted 61 events of online trainings and orientation focusing on COVID 19 and WASH for 998 participants from WASH implementing organizations;
- Organized 3 webinars on COVID 19 and WASH for 190 participants from different

- organizations including saving and cooperatives, teachers, sanitation workers, etc.;
- Conducted virtual learning exchanges in different topic for national and international participants focusing on COVID response activities;
- Implemented 'Handwashing with Soap Campaign' in projected implemented five districts targeting to 29,000 households to improve handwashing behavior;
- Produced and broadcasted 13 episode of radio program 'Corona Sarokar' through 15 local radio station of five districts;
- Produced and broadcasted 16 episodes of 'COVID Show' program through 10 local radio stations, official YouTube channel and Facebook page;
- Developed COVID 19 and WASH related IEC materials and distributed to 120 local organizations to use further in community level;
- Established public handwashing stations in 14 public places to reinforce general public to wash hands with soap.



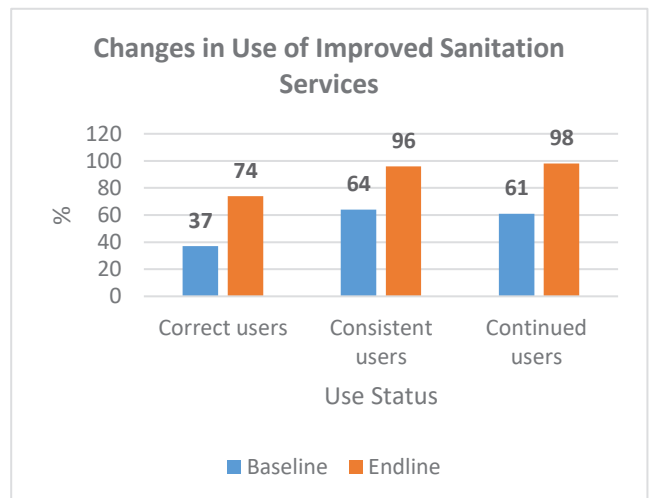
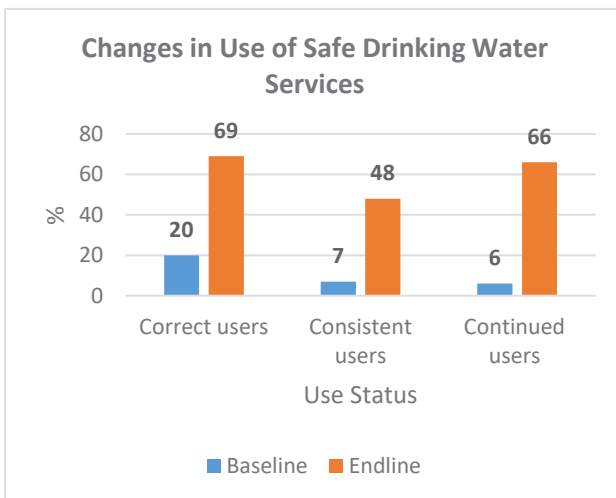
Demonstration and implementation

- 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.
- 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 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 providing its services in respective districts.
- ENPHO Training Centre experienced intensive implementation of behavior change campaign in Behaviour Centric Design (BCD) model which has built up confidence level of the team to implement such campaign in another area.
- Nine local strategies developed that incorporate WASH practices, to better respond to water and sanitation needs in earthquake-affected communities
- Six local organizations developed, strengthened, and integrated gender appropriate and environmental sustainability initiatives into their work, to better respond to water and sanitation needs in earthquake-affected communities.
- Altogether 2,69,305 with approximately 23,295 marginalized people using safe drinking water correctly or consistently or continued which is 74% of targeted population. Similarly, 2,67,664 people using improved sanitation services which is 73% of targeted population and 2,10,944 people washing hands with soap which is 58 % of targeted population.



Beneficiaries:

Total Beneficiaries from the Project:



2,897 people capacitated (Direct)
482,810 people capacitated through trained human resource (Indirect)

7.3 Development of training curriculum on FSM and FSTP

Status: Completed

Project Partner:	Oxfam Consortium for DEWATS Dissemination Society (CDD Society) India,
Funded by:	Tetra Tech ARD/WASH FIN
Project Area:	Nepal
Project Duration:	August 2020 - March 2021

Objective:

The overall objective of the project is to develop and deliver a curriculum on FSM to build foundational capacities of the identified targeted participants to fill capacity gaps in the design of viable FSTPs in Nepal. The curriculum and materials will serve as training resources for the National Water Supply and Sanitation Training Center (NWSSTC) which will take the training forward.

Project Description:

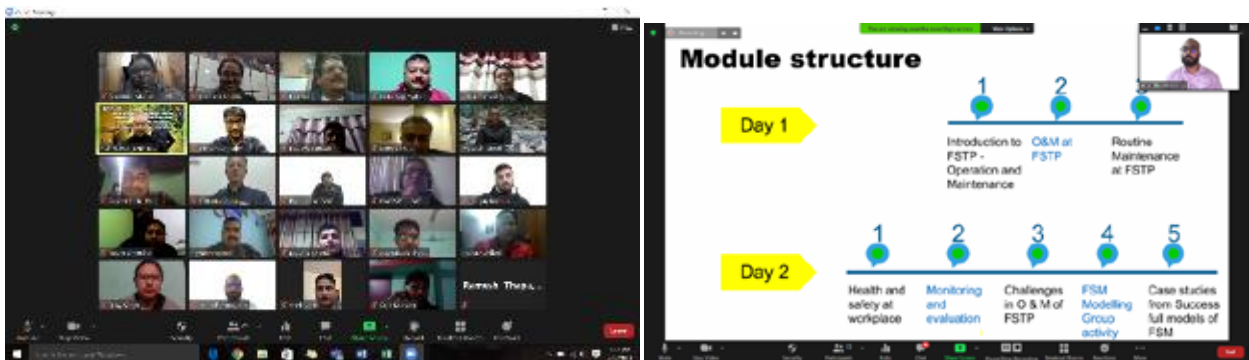
Nepal declared open defecation free country in September 2019 in recognition of all 753 local bodies of 77 districts attaining this status. This achievement has resulted in a considerable increase in the number of toilets and related latrines and septic systems. Still approximately 80 percent of urban population rely on non-sewered sanitation (NSS) systems.

With limited public funding and technical design capacity to expand piped sewerage network, the Government of Nepal (GoN) has targeted on-site sanitation systems and fecal sludge management (FSM) as a comparatively lower cost solution with the additional advantage of lower water and energy requirements for pumping and flushing increasingly larger sewage networks. Local Governance Act mandates that sub-national local bodies (Municipalities and Rural Municipalities) have primary responsibility for planning and management of sanitation, on-site sanitation continues to be largely handled by the informal and private sectors. Due to the limited knowledge, skill and understanding on non-sewer sanitation systems including fecal sludge management (FSM), even the allocated budget is not being fully utilized. So, the government of Nepal has identified training on good practice and principles of FSM and Fecal Sludge Treatment Plant (FSTP) design as the first step in building a knowledge base to improve capabilities and capacity.

FSM and FSTP training curriculum consist of a suite of education materials and training workshops initially targeting public sector engineers (PSE) responsible for the planning, design, implementation and O&M of fecal sludge treatment systems infrastructure and services. This anticipated primary target group has been identified by the DWSSM and NWSSTC. However, the curriculum may have value to other sector professionals, including decision-making government officials. Private sector would also be interested in the material, and the content and delivery of the curriculum should reinforce the importance of the private sector for certain business models, those requiring private sector inputs for sustainability of operations and maintenance.

Project Outputs:

- Prepared Fecal Sludge Management Service Delivery Landscape Assessment report as a guiding document to improve service delivery on fecal sludge management;
- Prepared Capacity Assessment Report of key stakeholders on FSM;
- Developed a complete training package with seven different modules focusing different aspects of FSM. Also, developed required training materials like trainer guide, slide deck, participant practice/exercise book, reference materials compilation and slide notebook were developed to support and ensure the quality of training delivery. The modules are:
 - Module 1: Orientation to FSM
 - Module 2: FSM technologies and system design
 - Module 3: Operation and maintenance of FSTP
 - Module 4: Planning of FSM
 - Module 5: Business models and financing for FSM
 - Module 6: Institutional, legal and regulatory framework for FSM
 - Module 7: Resource recovery and safe use of treated fecal sludge
- Delivered 14-day FSM/FSTP training to 20 engineers working in public sector representing Ministry of Water Supply, Department of Water Supply and Sewerage Management and Physical Infrastructure Planning Ministry (Provincial) from 16 different districts of Nepal;
- Handover of the training package to NWSSTC/DWSSM for roll out across the nation;



Major Achievements:

- Developed training package on FSM/FSTP and handed over to NWSSTC/DWSSM;
- Ready to deliver a high-quality complete training package on FSM/FSTP with training material required for training delivery.

7.4 Green Rooftop Farming Project- Madhyapur

Status: Ongoing

Project Partner: UN Habitat
Project Area: Madhyapur Thimi Municipality, Bhaktapur
Project Duration: January 2021 - August 2021

Objective:

This project aim is to promote innovative ways of urban agriculture through capacity building of city dwellers to support food security and to contribute in waste management thereby conserving water and reduce the impact of climate change.

Project Description:

Rapid urbanization is creating enormous stress on access to urban services and local food security. Kathmandu Valley, as one of the fastest urbanizing cities of Asia is also facing this problem. Roof top Farming (RTF) offer an alternative growing space to produce fresh vegetable for city dwellers and also creating the opportunity to productive reuse of organic waste as compost. Thus during the time of lockdown, city dwellers urge to grow their own fruit and vegetables at their homes.



While local municipalities are also coming in front promoting urban agriculture including Roof Top Farming, Madhyapur Thimi is also very much committed to this endeavor. However, lack of proper technical knowledge is hindering to enhance the rooftop farming

practice. Thus, ENPHO with the support of UN Habitat is implementing Green Rooftop Farming Project at MadhyapurThimi, Bhaktapur to promote innovative ways of urban agriculture through capacity building of city dwellers by enhancing their technical knowledge on Rooftop Farming.

Project Outputs:

- Conducted baseline study of KPA on RTF.
- Conducted FGD with potential RTF farmers and interested beneficiaries
- Conducted 2 events on sensitization workshop
- Conducted three days extensive training on RTF, waste recycling and water management for RTF
- Provided regular technical inputs on RTF by Field Technician.
- Distribution of RTF tool kit to 100 Households

Major Achievements:

- Completed Baseline study of KPA on RTF.
- Identification of 100 HHs for RTF promotion

Beneficiaries:



100

Households

8. Knowledge Management

8.1 Training Centre

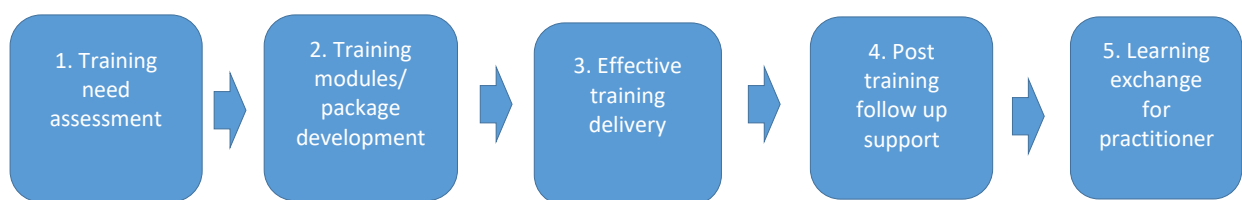
Introduction

ENPHO provides a learning platform that designs and delivers professional training programs 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.

In 2008, ENPHO, with the technical support of Centre for Affordable Water and Sanitation Technology (CAWST), established Water Expertise and Training Centre (WET-Centre) to deliver trainings in more systematic manner. Later in 2015, a separate unit named “ENPHO Training Centre” was established under the Knowledge Management Division of ENPHO and this unit has been conducting the capacity building programs for the communities and organizations on various Water, Sanitation and Hygiene (WASH) approaches, technologies and solutions. The major objective of ENPHO Training Centre is 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:



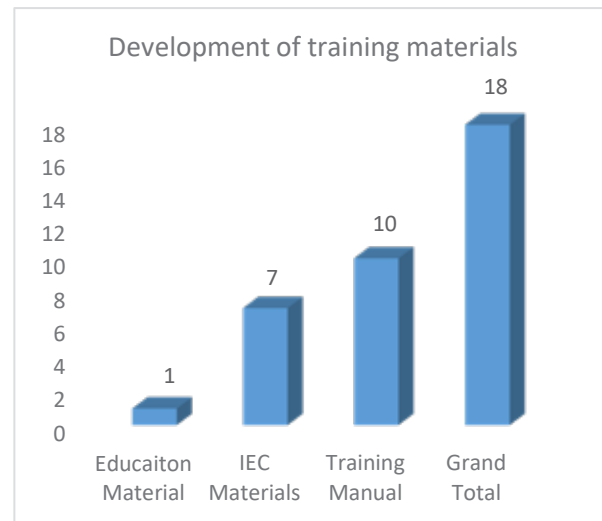
1. Training Need Assessment

Training need assessment is the initial step in developing new training module/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 decides whether to develop or adapt or modify the training package.

ENPHO Training Center conducted one online training need assessment in February 2021 to identify the needs or gaps in training demand or requirement of the organization in WASH sector.

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. 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 2077/78, altogether 18 training materials including 10 online packages, 1 education material and 7 types of IEC materials including short videos have been developed by the unit for effective message delivery to the related stakeholders and community. Thus, developed materials were shared through different social media and network to reach huge targeted audiences.



To this a major package on fecal sludge management, “Design training of fecal sludge management” was developed in coordination with National Water Supply and Sewerage Training Centre (NWSSTC) and CDD society, India.

With the continuation of transmission of COVID 19, training centre team particularly focused on development and updating of different packages and required material to support local organization coping the situation through building their capacity to respond the situation at the field level. Interactive online sessions relating to COVID 19 and WASH and sharable short video on WASH behaviours were shared through various social platform. ‘COVID 19- new variant’, updated online package on ‘Proper use of Mask’ are some of the packages developed during the work from home condition.

Till date, ENPHO Training Centre has developed more than 60 training packages including online sessions ready to deliver with necessary training materials in different topics of WASH.

3. Delivery of Trainings

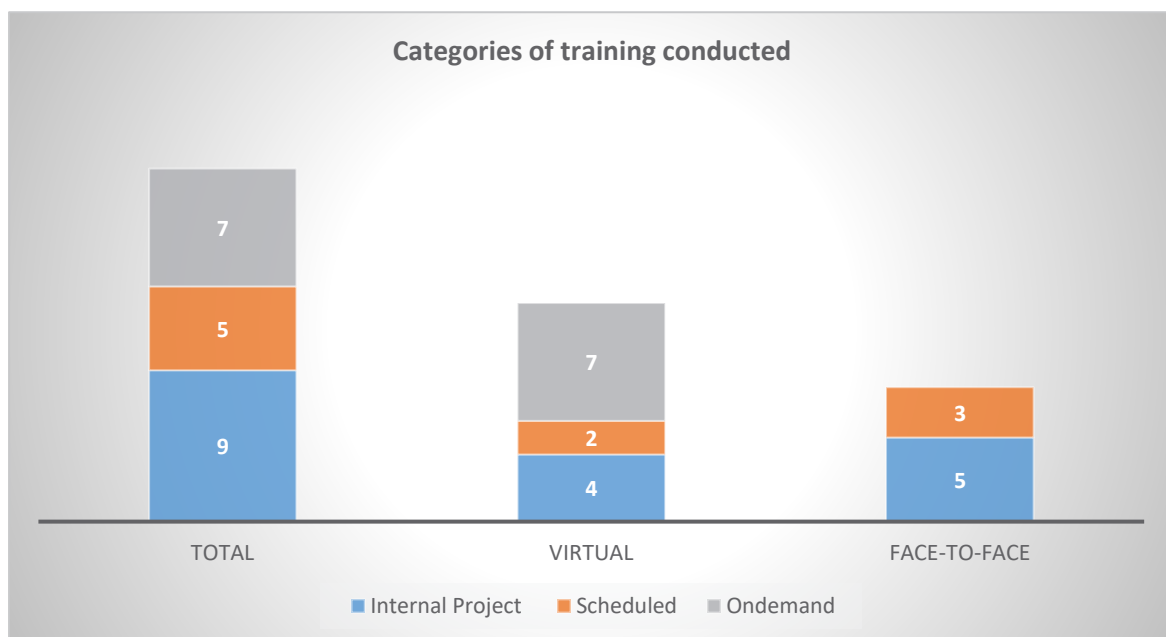
Effective training delivery is one of the core functions of the training centre unit. The training centre unit delivers trainings in participatory way by creating safe learning environment so that the participants can explore their skills and enhance their knowledge. The training events specifically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

Training Centre delivers training on the basis of scheduled training event and demand-based training event. Generally, it can be categorized into:

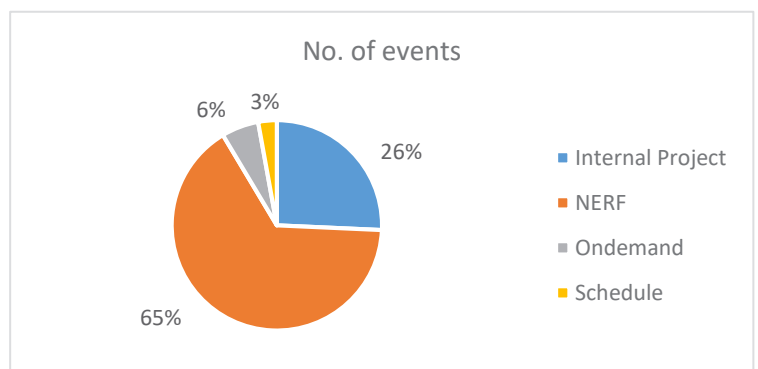
- i. **Scheduled training:** Scheduled trainings are annually pre-planned by ENPHO Training Centre and announces call of such trainings through ENPHO’s website and Facebook page. Participation cost is applicable for this type of trainings.

- 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 ENPHO Training Centre deliver existing training package or customize the package on need basis. The organizer provides 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 21 training events including virtual training and face to face training session in FY 2077/78. Through this trainings, 387 participants (139 male and 248 female) were trained from 133 different organizations.



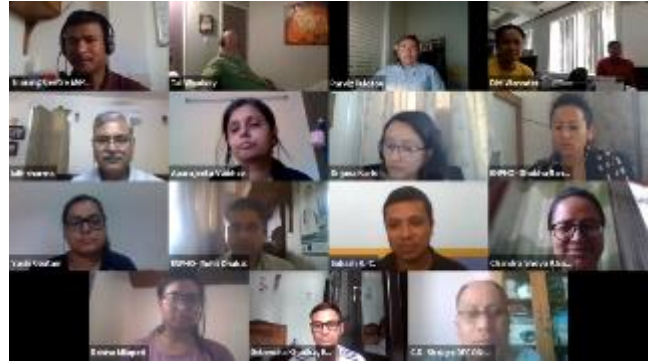
Along with the training events, 35 orientations were conducted in the FY 2077/78. Through these orientations, total of 737 participants of which 326 were female and 411 were male, made aware on different topics related to WASH and COVID-19. In the present context of COVID-19, cleaning and disinfection was the most carried out orientation as the prevention of transmission of COVID-19.



This year ENPHO training Centre provided capacity building support to five internal projects and handle two projects which were more focused on capacity building.

4. Learning Exchange

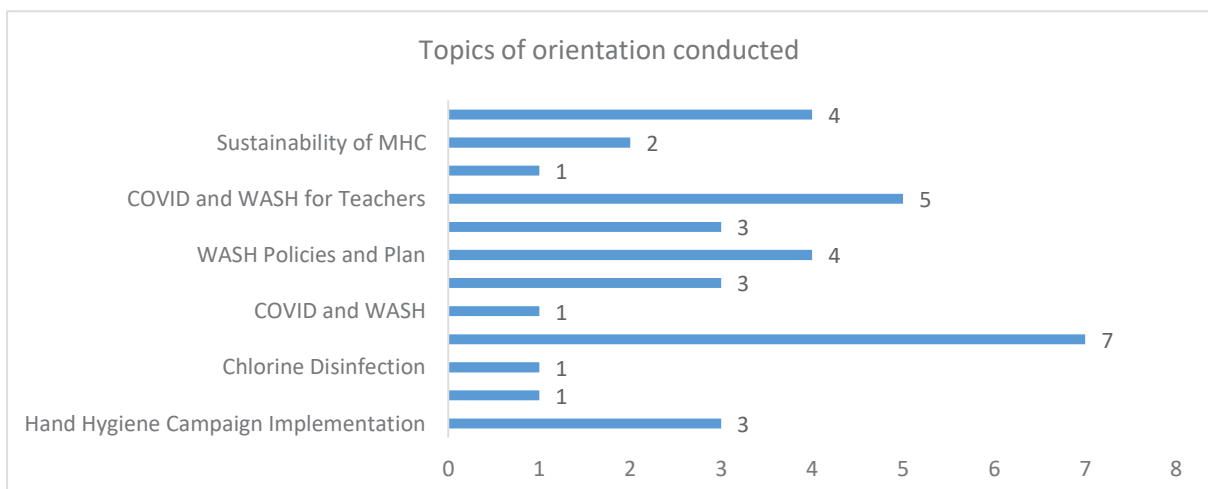
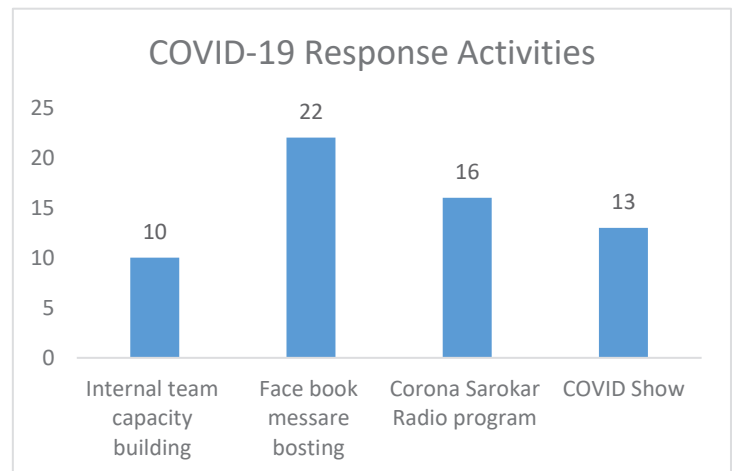
ENPHO Training Centre annually organizes a learning exchange event for WASH implementing organizations as a platform to share and learn through the experiences sharing. Due to the COVID 19 pandemic, as in the last year, training centre hosted two successful learning exchange program on virtual platform. Altogether 69 participants attended the events of which 21 were female participants and 48 were male participants.



Also, training centre in coordination with other Water Expertise Training Centre Network (WET-NET) hosted 4 WET-NET events on different topics to learn and share their achievements and experiences on the related sectors. Sehgal Foundation from India, WASH SDO from Cambodia, ACK from Kenya, AFMAC from Zambia, EKHDC from Ethiopia, CAWST from Canada are some of the organizations linked with WET-NET learning and sharing platform.

COVID Response

To COVID-19 response activities, ENPHO Training Centre also focused on various events. One is the internal capacity building of the team for the prevention of transmission of COVID-19, where ENPHO TC conducted 10 successful events. To this, Facebook message boosting, on COVID-19, corona sarokar- a radio program, and COVID show are some of the events conducted as a response of COVID-19.



Major Achievements:

- Developed a complete technical training package/module on “Design training on Fecal Sludge Management” in coordination with CDD Society, India which is going to be rolled out by Department of Water Supply and Sewerage Management (DWSSM) of Nepal.
- Reached out 91,195 population directly through hand hygiene campaign implementation in NERF project implemented districts.
- Reached out 1,209 participants directly through 56 events of training and orientation organized by training centre.
- Generated NPR 10,81,903/- revenue as technical charge for training package development, training delivery and post training follow up support.
- Started virtual training events of multiple episodes like WASH’Em training, training package development training, FSM/FSTP design training, CWIS training, etc.



8.2 Resource Centre

The Resource Centre unit collects, stores and disseminates information 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, knowledge products along with other updates on WASH are available on ENPHO’s website - www.enpho.org. This year, ENPHO’s website was redesigned with new look and user friendly features and was launched in July 2021.

Publications and IEC Materials

Resource Centre produces and disseminates various publications, IEC materials, audio-visual productions 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 implemented by ENPHO in that particular fiscal year. Similarly, ‘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 ‘Anjali’ to document and share the learnings and stories from field. In addition, ‘COVID Bulletin’ has also been prepared this year to document ENPHO’s COVID response activities. ENPHO’s IEC materials have been requested and used by Nepal Government, UN Agencies and other various INGOs, NGOs, local organizations to use in their projects and programs.



Altogether, **126 publications and IEC materials** have been published in the FY 2020/21.

Refer [Annex III](#) for the glimpses of publications published in the FY 2020/21.

ENPHO Library and Hall

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. ENPHO has a bright and airy hall with seating capacity for 50 which can be used for conducting trainings, meetings and workshops.

Networking

ENPHO has been closely working with relevant stakeholders and individuals to share information coordinate and implement joint activities, research and academic studies related to safe water, sustainable sanitation, health and hygiene promotion and other environmental concerns.

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

- Secretariat of C19 Rapid Action Taskforce (C19 RAT)
- Member of consortium for DEWATS dissemination (CDD) network (informal network to promote and disseminate Decentralized Basic Needs Services (DBNS) at South Asia
- Coordinating organizations of NGO Forum for Kathmandu Valley Water Supply and Sanitation
- Core member in Coalition for Clean Environment (CCE)
- Technical committee member for Drinking Water Quality and lab issues for NBSM
- Member for development of National Drinking water Quality Standard
- Member in Coordination committee Small Town Water Supply and Sanitation Project, DWSS
- Technical member District WASH Coordination Committee, Bhaktapur
- Network member in Resource Center Network Nepal (RCNN)
- Member of WASH cluster
- Member Sustainable Sanitation Alliance (SuSanA)
- Advisory Board Member, Accelerating City to City Exchange on Sustainable Sanitation (ACCESSanitation)

ENPHO in Social Media

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 etc. This year, ENPHO facebook page had 13,000+ Likes as of 15 July, 2021. Also, ENPHO has been actively running the Facebook page “WASH for Healthy Life” which was formed with an aim to disseminate WASH related knowledge and information among its followers. The page successfully gained **1280+ Likes** and **1388+ Followers** within its first year.



ENPHO also has its own Youtube channel (<https://www.youtube.com/channel/UCdp-40Sd4yoJ35jaCPexFCw>) through which various videos and documentataries related to WASH and ENPHO’s projects are being disseminated.

Advocacy Campaign

The Resource Centre unit is 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.



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 youth engaged at Paschim Paaila is ready to prepare, respond and mitigate disasters and epidemic through WASH education, awareness, and research and advocacy activities.

Day Celebrations:

Paschim Paaila, with the support from ENPHO and other various organizations, celebrated Global Handwashing Day 2020, World Toilet Day 2020, World Water Day 2021, Menstrual Hygiene Day 2021, World Environment Day 2021 and International Youth Day 2021. More than 10,000 general public were reached through handwashing day campaign and quiz on social media, more than 960 general public through message dissemination on social media for World Toilet Day celebration, more than 500 general public through World Water Day celebration program, more than 7900 general public through quiz on social media and 63 school students through virtual orientation for Menstrual Hygiene Day celebration, more than 1100 general public through message dissemination on social media for World Environment Day celebration and, more than 500 general public through stand up campaign to disseminate



	Beneficiaries from Day Celebration Events:
	No. of volunteers mobilized in various day celebration events: 26
	No. of people reached: More than 21,150 people

messages on COVID-19 prevention for International Youth Day celebration.

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,

Date	Series of WASH Forum	Topic	Number of Beneficiaries
24 July, 2020	8 th	WASH Facilities in Quarantine of Terai Region	25 youths
20 September, 2020	9 th	Stress Management among Youths	91 youths
28 September, 2020	10 th	Curative Management of Menstrual Cramp	17 youths
29 January, 2021	11 th	Air Pollution in Kathmandu Valley and its Impact on Human Health	40 youths
26 February, 2021	12 th	Water, Climate change, and GLOF	25 youth
22 March, 2021	13 th	Ancient Stone Spout Renovation and Conservation: An Example from Kritipur Municipality	30 youth

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, WASH-CO Workshop, Learning-Sharing and Orientations to empower youths, children and community people.

Trainings/Workshops Organized	No. of Events	Target Audience	Number of Beneficiaries
WASH-CO Workshop	3	Youth	220
School CO-WASH Workshop	34	School Students	1895
Orientation on WASH	1	Community Children	30



Volunteer Mobilization:

Paschim Paaila volunteers participated in various campaigns and events organized by ENPHO under various projects and programs. Altogether, 26 volunteers were mobilized in the fiscal year 2020/21.


Total number of volunteers engaged in projects/events: 26

Partnership and Networking:

Paschim Paaila Batch

Paschim Paaila 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. Altogether, 10 females and 5 males have been involved in three batches.

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

42 New Reach
(Community, School, College, Hospital and Orphanage)

Paschim Paaila in COVID-19 Response

Paschim Paaila youth volunteers were actively engaged in various campaigns to raise awareness on COVID-19 and its prevention benefitting more than 80,000 people. Amongst various campaigns, Mask-Mandu Campaign is one. This youth-led campaign sensitized and spread awareness to



general public on the proper use of masks and promoted safe hand hygiene to prevent the spreads of COVID-19. This has been a collaborative youth-based campaign that has been organized with individuals/youth clubs/network following public health standards set by the Government of Nepal for the prevention of COVID-19.

Beneficiaries from Mask-Mandu Campaign:
No. of volunteers mobilized: 27
No. of people reached: More than 80,000

9. Laboratory and Production

ENPHO Laboratory and Production Division, as a part of ENPHO since its establishment in 1990 AD, has been providing environmental analysis services in laboratory and has developed various water and sanitation products mainly for water quality testing and treatment through research and development.

ENPHO laboratory is accredited under the NEPLAS criteria (based on ISO 17025) i.e. Nepal Standard (NS) marked by the Nepal Bureau of Standards and Metrology (NBSM), Government of Nepal since 2000 AD. Recently (2021) it has also been certified with ISO 9001: 2015. ENPHO laboratory over its decades of experience in the sector has been continuously contributing in environmental monitoring & research and has supported evidence-based decision making for formulation of locally applicable strategies and water quality management plans. ENPHO lab, through its service, aims to technically contribute in relentless efforts of water and sanitation sector towards creating a healthy and eco-friendly Nepalese society by management of WASH facilities and system in the country. Laboratory also provides a platform for research advancements in water, sanitation and environment for researchers, students, academic institutions and research partners.

ENPHO laboratory is equipped with sophisticated, reliable and calibrated instruments like atomic absorption spectrometer, UV spectrometer, distillation and digestion units, BOD incubators, COD distillation, distilled water production unit to name few and a team of experienced-technicians including microbiologist, chemist, environmental scientist, technicians, quality control and assurance expert. Various types of environmental samples like drinking water, river water, ground water, wastewater, sludge, soil and food samples are tested in ENPHO lab and more than 50 parameters can be analysed. Besides, ENPHO laboratory is furnished with digital customized-software based laboratory information management system (LIMS) enabling electronic storage of data and information, and generation of automated report for clients, while also reducing manual errors and ensuring confidentiality of reports. ENPHO laboratory also has a well-developed Quality Management System documentation system based on ISO 17025:2017 and has developed elaborate Quality Manuals, Procedures and Policies for ensuring its consistent performance.

ENPHO laboratory over these 30 years of experience, has reached all the 75 districts of Nepal during its service in water quality testing and monitoring programmes. It has provided analytical services for its own projects and for other governmental and non-governmental organizations in WASH sector like RWSSFDB, UNICEF, WWF, Helvetas, Oxfam, Practical Action, JICA, SNV, Water-Aid, WAI, BPKHIS, Dhulikhel Hospital, CDD BORDA, EAWAG-Sandec, and has collaboratively worked with academic institutions like TU, KU, MIT (USA), AIT (Thailand) etc. among others. ENPHO lab was also the partner for technical support for water quality testing

module in the national wide survey MICS programme by UNICEF/CBS conducted in 2014 and 2019. Furthermore, diplomatic missions, embassies, industries, hospitals, pharmaceuticals, treatment plants, individual (public), schools are the major regular clientele of ENPHO lab.

Apart from laboratory analysis, Laboratory and Production Division at 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 Swachha Silver Candle filter and ENPHO body belt incubator. Owing to the simple-to-use, low-cost, portable and reliable nature, these products have been intensively used for water quality monitoring and treatment programmes by various agencies in Nepal.

Eco Concern Pvt. Ltd. (EcoConcern)

Since 2016, Eco Concern Pvt. Ltd. (EcoConcern), business partner of ENPHO has been managing and marketing ENPHO Lab and Production Division and is responsible for overall operation and maintenance of the division. EcoConcern is government registered and an ISO 9001:2015 certified company established in 2016 which specializes in designing and utilizing innovative solutions for safe water, sustainable sanitation and a healthy environment. EcoConcern, as an eco-entrepreneur, develops, markets and sells environmentally friendly products and services.

The following sections summarize the details of samples analysed at ENPHO lab and the sales of kits and reagents by Production Unit in the fiscal year 2077-78 (2020-21).

S.N.	Sample Category	Type of client		Total no. of samples
		Individual client	Corporate client	
1	Drinking Water	808	129	937
2	Wastewater	64	4	68
3	Sludge	0	48	48
4	Water (unspecified)	0	64	64
5	Compost	1	0	1
6	Others (chlorine solutions, Product QC, PA vial, ECC etc.)	0	143	143
Total no. of samples				1261

Table 1: Details of samples analyzed in ENPHO lab during FY 2077-78 (2020-21)

S.N.	Name of Product	Unit	No. of Units Sold
1	Piyush	Pcs	94,381
2	Piyush Plus	Pcs	11,891
3	Water Test Kit	Set	304

4	PA VIAL	Pcs	15,580
5	FRC Kit	Pcs	124
6	Arsenic Test kit	Set	20
7	Chlorine 1%	Pcs (Jar)	347
8	Body Belt Incubator	Pcs	4
9	Hardness Test Kit	Set	4
10	Ammonia Test Kit	Set	2
11	Iron Test Kit	Set	2
12	ECC Vial	Pcs	2,978

Table 2: Details of type and number of products sold during FY 2077-78 (2020-21)

S.N.	Reagents	No. of units sold
1	Ammonia Reagent-1	73
2	Ammonia Reagent-2	69
3	Chloride Reagent-1	50
4	Chloride Reagent-2	48
5	Hardness Reagent-1	47
6	Hardness Reagent-2	54
7	Hardness Reagent-3	55
8	Iron Reagent-1	67
9	Iron Reagent-2	63
10	Iron Reagent-3	62
11	Nitrate Reagent-1	50
12	Nitrate Reagent-2	51
13	Phosphate Reagent-1	46
14	Phosphate Reagent-2	42
15	Methanol	32
16	PH Reagent	59
17	Distilled Water	55

Table 3: Details of individual reagents sold during FY 2077-78 (2020-21)

A total discount of NRs. 80,443 was provided to students, board members, staff and regular client this fiscal year.

10. Planning Monitoring and Evaluation

In the fiscal year 2020/21, PME unit was engaged in different PME related activities, especially in four different projects; Suaahara II (IR1.2), WASH SDG program- WAI project, Resilience of WASH services through capacity building- Nepal (NERF) project and Integrated Urban Water Management at the Center of Municipal Public Services (IUWM) Project. Apart from these projects, PME unit has also extended its involvement in other ENPHO projects and initiatives.

Key activities performed by PME unit in FY 2020/21

- Review and coordination meetings;
- Rapid/mid-term evaluation (MTR) assessments;
- Tele monitoring;
- Data review, analysis and report preparation.

Besides, projects’ monitoring has been carried out at different level. Project supervisors has been involved in output monitoring of project implementation and thematic officers and managers have performed monitoring for progress and result of the projects and programs. However, the Nepal Government’s (central and local) imposed travel restriction rule, due to Covid -19 pandemic, mostly tele – monitoring activity was practiced than field visit this year.

- SUAAHARA II (SII) PROJECT**
- Monthly, quarterly, semi- annual and annual DHIS 2 data checked, followed up and corrected (IR 1.2 WASH part in SII project)
 - Quarterly Trainet/TEAM data checked (IR 1.2 WASH part from SII 42 districts), compiled and reported
 - Field monitored as well as DQA conducted in SII districts; Taplejung and Panchthar
 - Carried out quality assurance (QA) in SII Covid-19 tele counselling activities
 - Supported SII Province WASH Coordinators with data for 4W reporting
 - Engaged in data analysis for the activity “WASH in Health Facility” and “WASH mart”

WASH SDG PROJECT

- Participated in review and coordination meetings,
- Carried out rapid assessments to understand COVID support requirement and planned accordingly in close coordination with municipalities
- Supported in MTR Assessment, conducted Key Informant Interview (KII) with key personal at both the municipalities
- Follow up and monthly data checked for reporting,
- Supported in phase two proposal planning and write up
- Supported the project team for vacancy call, and shortlisting applicant’s for GESI/SRHR officer for field level staffing.

NERF PROJECT

(Integrated Urban Water Management at the center of Municipal Public Services)

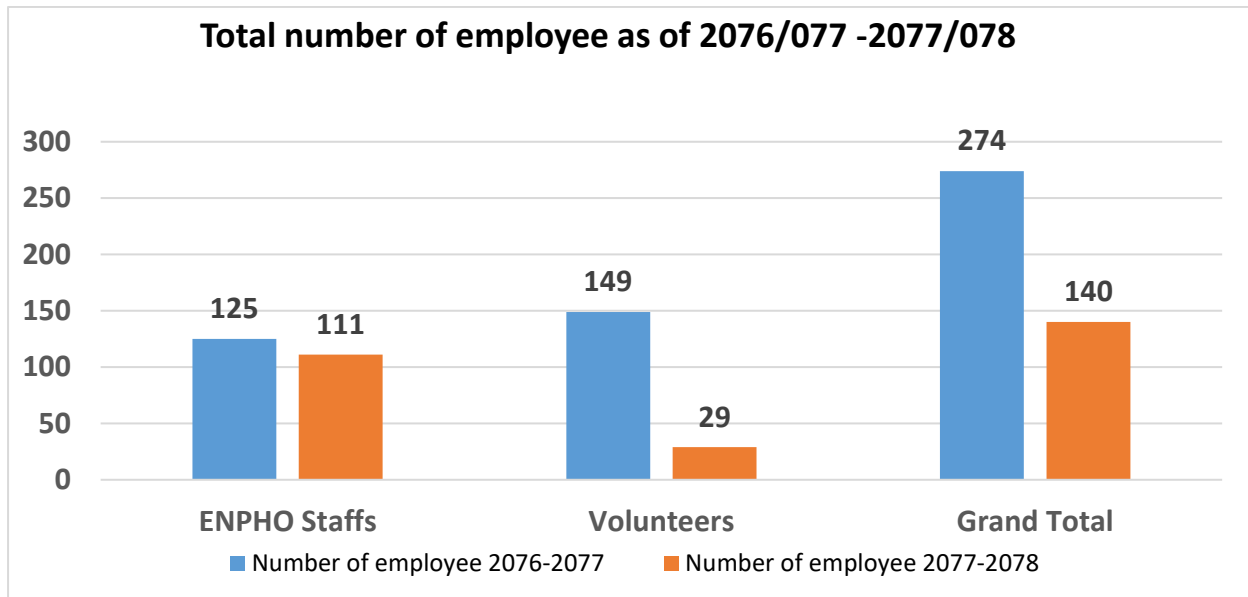
BORDA PROJECT

- Supported the team for proposal development to be submitted to National Planning Commission (NPC) for Bheriganga Municipality
- Supported to facilitate online orientation
- Conducted orientation to enumerators on end line survey
- Supported in phone call survey checklist
- Engaged in data analysis and final report development of end line survey
- Developed poster presentation of Model Health Community for the Annual Canadian Conference on Global Health of 2020
- Coordinated with municipalities for COVID support and relief materials requested
- Engaged in developing monthly and quarterly reports
- Engaged in conducting capacity need assessment
- Supported in facilitating sessions both virtually and physically
- Supported in regular communication and coordination
- Supported to develop MoUs for both municipalities
- Supported in developing concept notes and reports of different assessment coordinated under the 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, the ENPHO HR policy has been revised in line with the new labor act endorsed by the Government of Nepal. Human Resources of ENPHO have been categorized into Regular, Time-Bound, Task-Based Employees, and Volunteers.

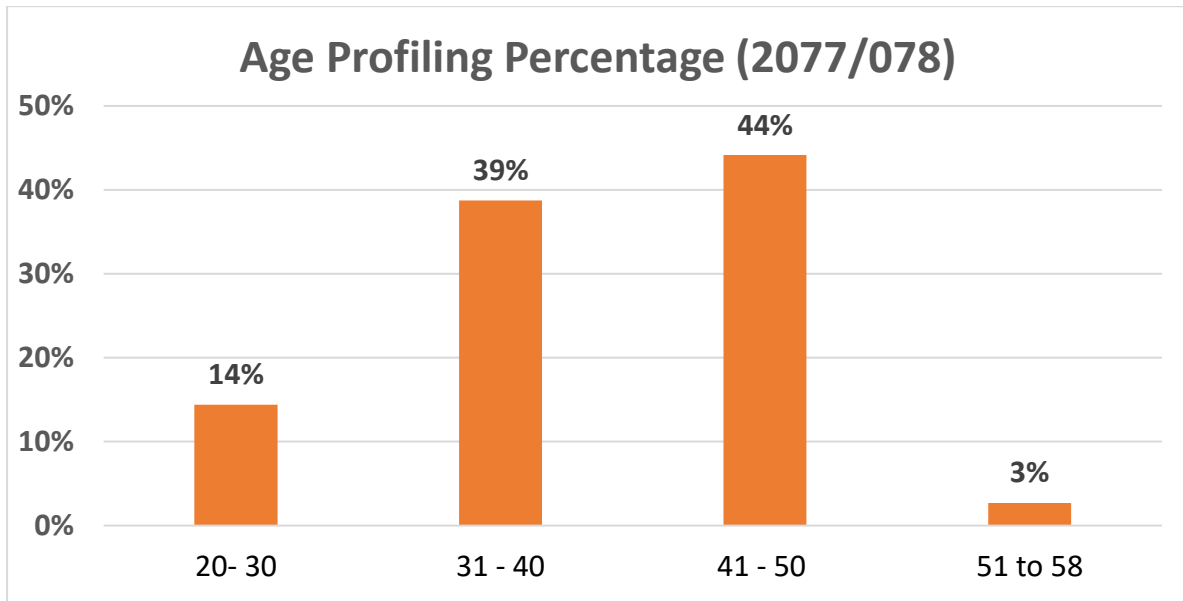


- The total number of ENPHO’s regular and task-based employees for 2077/078 is 111, which was 125 in 2076/077. The total number of Volunteers for 2077/078 is 29 and in 2076/077 it was 149. The total number of ENPHO employees is 140 in 2077/078 and was 274 in 2076/077. This year, there is a decrease of 11% in Regular, Time-Bound, and Task-Based Employees compared to the previous year.
- **Gender Segregation of Employee**

Out of total Regular, Time-Bound, Task-Based level employees, 36% are female whereas under the Volunteer category 66% of the total workforce is female. Overall 42% of total employment is female and male comprises 58%.

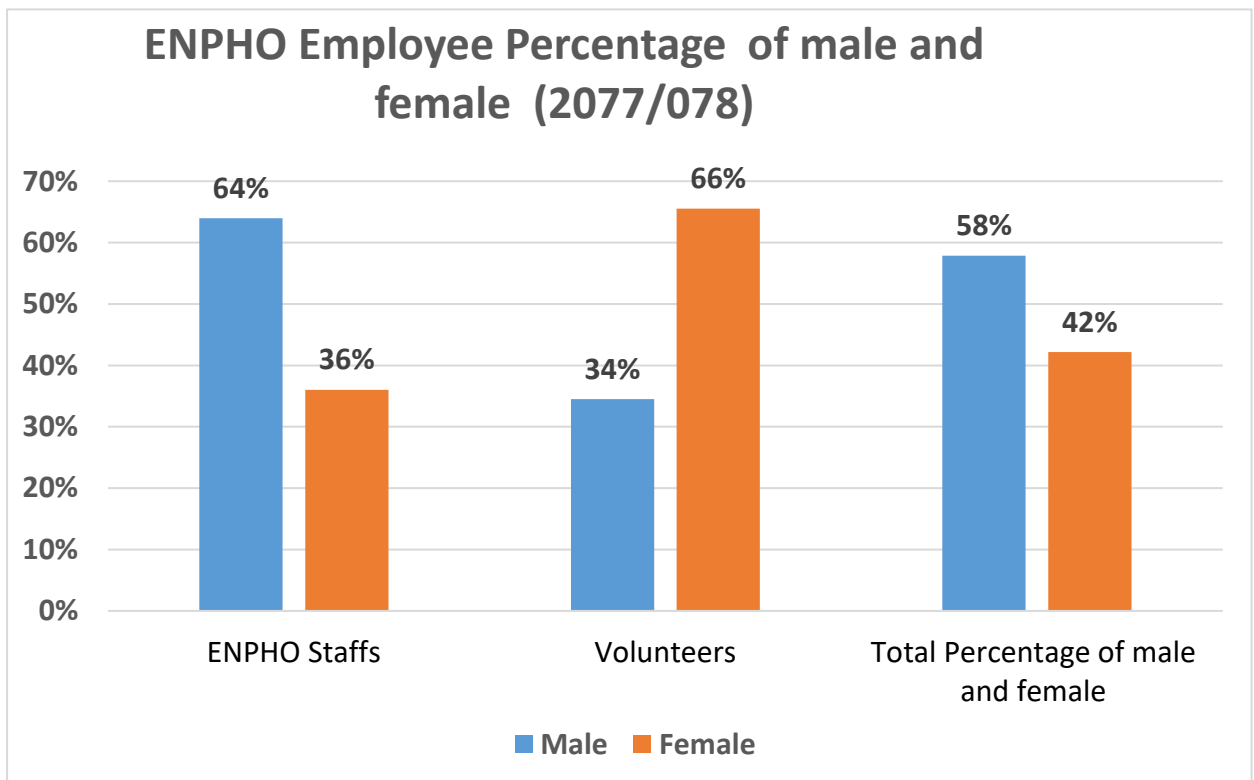
- **Employee’s Age Profile**

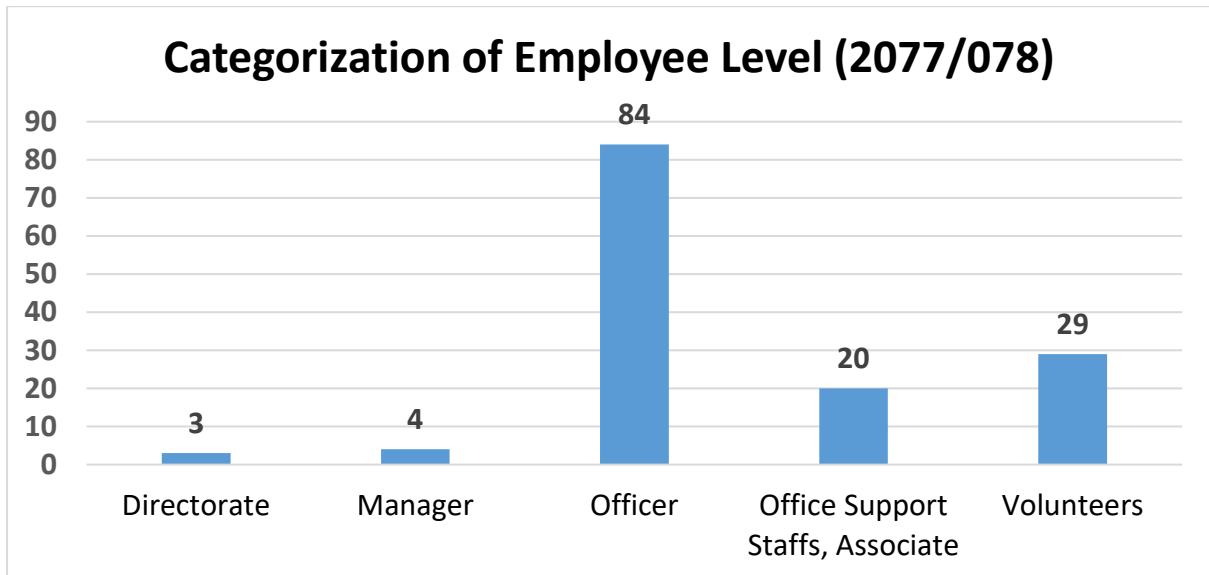
The age profiling calculation shows that 14% of Regular, Time-Bound, and Task-Based Employee level staff are between the ages of 20 - 30. Whereas 39% of Regular, Time-Bound, Task-Based Employee level staff is between 31-40 years. Similarly, 44% of Regular, Time-Bound, and Task-Based Employee level staff is between 41-50 years. The average age of ENPHO Regular, Time-Bound and Task-Based Employee level staff is 38 years.



▪ **Segregation of ENPHO Employee Level:**

Total of 3 numbers of employee fall under Directorate level and Managerial level staff consists of 4 numbers of employee. Similarly the maximum number of officers, in total 84, in total 20 numbers under office support staffs & associate Level. Total of 29 numbers of under volunteers.





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.

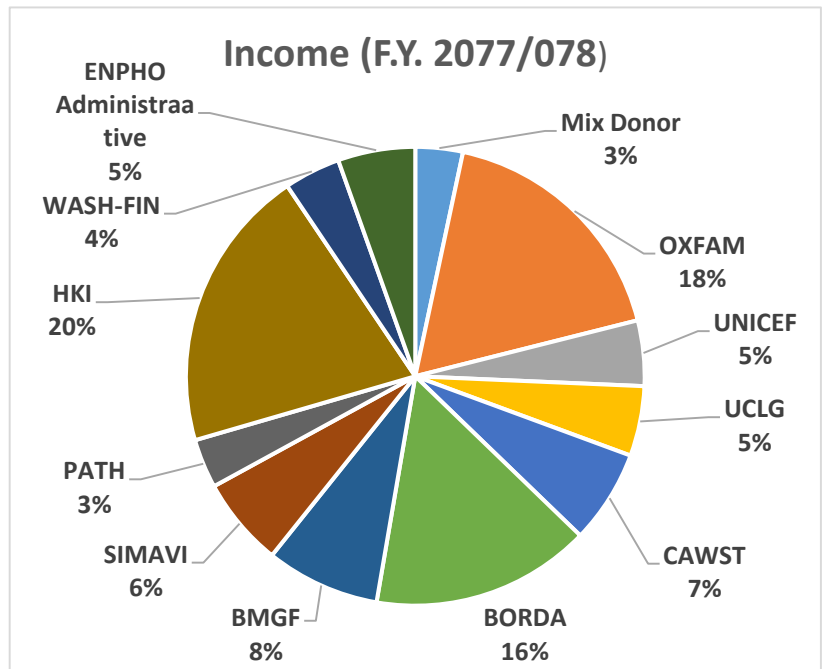
Volunteer and Internship Management

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. Twenty nine volunteers were appointed at ENPHO during the fiscal year 2020/21.

12. Financial Management

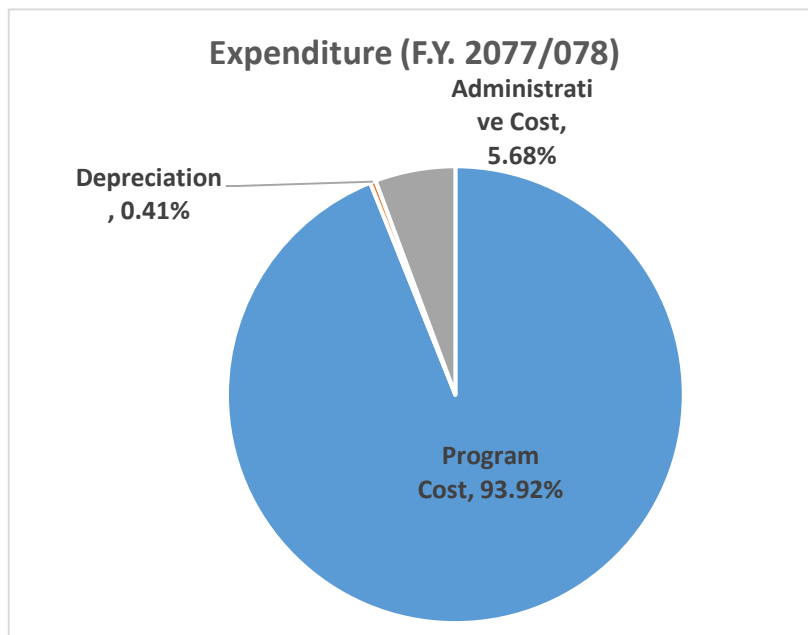
12.1 Income

ENPHO's total income for the year 2020/21 was NRs. 202,940,894.78 (US\$ 1704812.62 conversion 1 USD = NRs. 119.04). This is a 1% increase compared to the total income of 2019/20. The increase in the total income was observed this year as the organization got emergency fund for COVID 19 project. The projects' contribution to ENPHO's annual income was 20% from SUA AHARA II funded by USAID/HKI, 18% from OXFAM, 15% from BORDA, 8% from BMGF, 7% CAWST, 6% from SIMAVI 5% form UNICEF, 5% form UCLG, 5% form ENPHO's administrative income, 4% from WASH- FIN, 3% from PATH & 3% from Mix Donors.

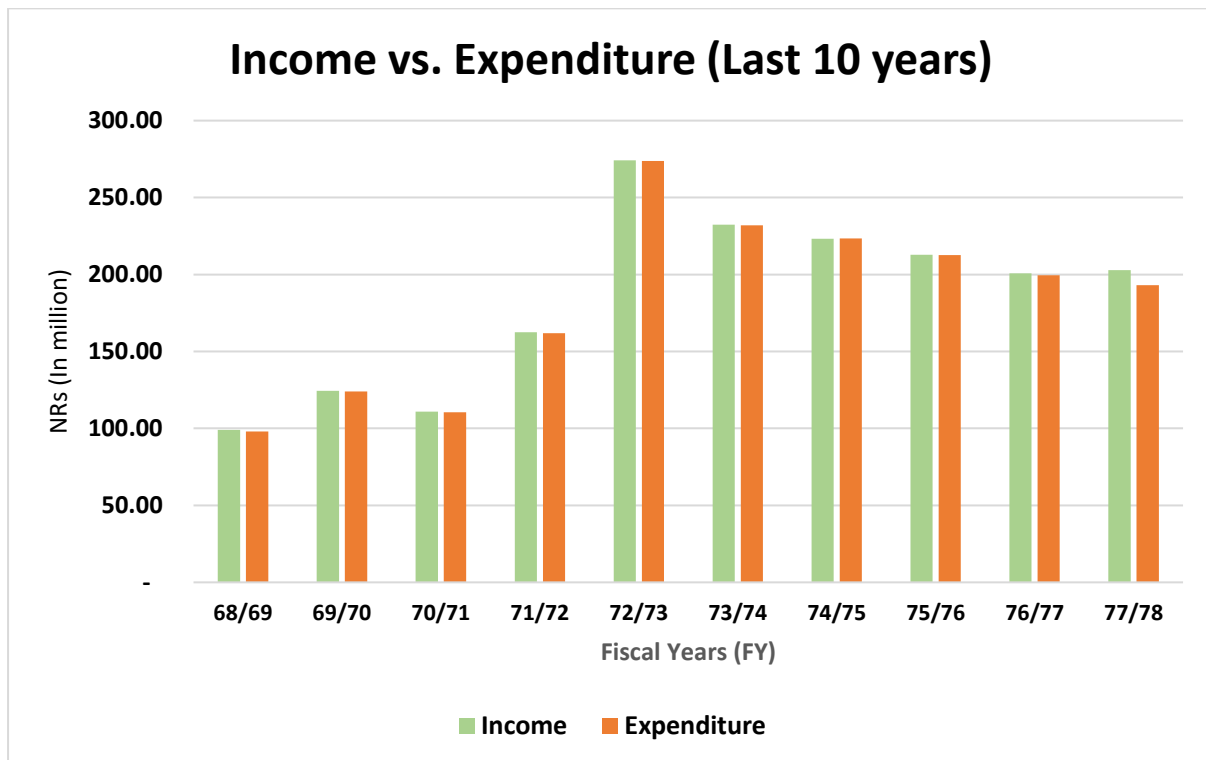


12.2 Expenditure

ENPHO's total expenditure for the year 2020/21 was NRs. 193,157,729.80 (US\$ 1,622,628.78, conversion 1 USD = NRs. 119.04). This is a 3% decrease compared to the previous year's expenditure. Of the total expenditure, 93.92% was spent on various on-going and completed projects/programmes, while 5.68% was spent on administration expenses. The overall distribution of annual expenditure is presented in the following graph.



12.3 Trend in Income and Expenditure over the last 10 Years



Please refer Annex V for financial audit report and Annex VI for proposed budget for fiscal year 2078/079.

13. Way Forward

After glorious 30 years in the field of water and sanitation it's high time on refocusing organization efforts. To nurture further, we embarked for growth by strengthening the capacity of the organization that is imperative to environment and public health issues.

Though there have been some research initiatives in the past but there need to be evidence-based research that will streamline the other projects as well. In coming years, we strive for such research.

Being such an experienced organization in the sector, organization itself should act as the resource hub. It is crucial to capacitate our own organization both in human and physical resources. For the organization to excel it is essential to make a mark globally which can help the organization in multidimensional growth. We would focus more on engagement on international exposure through publications and other multimedia. It would include more 'practice based with theory' approach and that has an academic dimension to it. To attain this an alliance would be established with international universities.

Research should reflect the organization's impact on the public health and should also include innovations which can help bring a difference to the mankind. FSM being the core component, ENPHO should invest in research in FSM pertaining to fecal sludge related different communicable diseases. Investment in City Wide Inclusive Sanitation (CWIS) would be one of

the core areas which can help broadening the horizons of FSM program.

With the dynamic trend seen in the climate change, the day is not far that the mankind will be struggling for the basic daily needs. ENPHO would strengthen itself by initiating its work in the areas which is directly impacted by Climate Change like, environment pollution etc.

With the support and joint collaboration with government agencies and establishing partnerships with likeminded organizations nationally and internationally, we are committed to contribute on achieving national goal of Sustainable Development Goal 6. To attain the developmental goals successfully, the way forward for a sustainable growth is collaboration, research and investment in beneficial projects with unwavering support from our government, donors, partners and stakeholders.

ANNEXURES

Annex I: Project List, FY 2020/21

S.N.	Project Title	Program Area/District	Partners	Duration
Sustainable Sanitation				
1.	Piloting of FSM Standard in Nepal – Mahalaxmi, Lalitpur as Pilot Municipality	Mahalaxmi Municipality, Lalitpur District	Bill & Mellinda Gates Foundation, Mahalaxmi Municipality, KVWSMB, NBSM	January 2019 to December 2021
2.	Municipalities Network Advocacy on Sanitation in South Asia	Dang, Siraha, Kanchanpur, Syangja, Kavre Districts	United Cities for Local Government – Asia Pacific (UCLG ASPAC), MuAN	May 2018 to December 2020
Community Based WASH				
3.	WASH SDG Nepal Implementation	Bheriganga Municipality and Barahtal Rural Municipality, Surkhet District	Local Municipalities, LUMANTI, BSP Nepal, FSCN, FEDWASUN, Biruwa Advisors, Sahakarmi Samaj, AKVO Nepal	January 2018 to June 2020(Phase I) Completed July 2020-September 2022 (Phase II)
4.	Integrated Urban Water Management at the Center of Municipal Public Services	Godawari Municipality and Kirtipur Municipality	BORDA	January 2020 to December 2020 (Phase I) Completed January 2021 to December 2021 (Ongoing)
Emergency WASH and Disaster Risk Reduction				
5.	Post – Earthquake Reconstruction –WASH in Nepal (PURNIMA)	Mahankal Rural Municipality, Bagmati Rural Municipality, Kongyosom Rural Municipality, Lalitpur	Oxfam	September 2018 to June 2019 Lot3 May 2019- March 2020 (Extended to

						15 July 2021)-Lot 4
6.	Hygiene and Behaviour Change Coalition (HBCC) Nepal	Bagmati Province / Lalitpur	Oxfam			April 2020 to March 2021
7.	COVID 19 Response Project (1st)	Lalitpur Metropolitan City, Kiritpur Municipality	BMGF; Mr. Roshan Raj Shrestha and Ms. Melissa Burgess			May to June 2021
8.	COVID 19 Response Project (2nd)	Kathmandu Metropolitan City, Thimi Municipality and Changunarayan Municipality	BMGF; Alyse Schrecongost, Sun Kim and Anna			May to June 2021
9.	Emergency COVID 19 Support-Rapid Action Task Force Project	Kathmandu and Lalitpur Metropolitan City	BMGF; City Wide Inclusive Sanitation Technical Assistance Hub in South c/o Devconsultants Limited			June to September 2021
10.	Isolation Center Support Project	Kathmandu and Lalitpur Metropolitan City and Bhaktapur Municipality	BMGF; Brian Arbogast, US			May to June 2021
11.	Nepal Mask: COVID-19 Response Project	Madhyapur Thimi Municipality (Bhaktapur District) Kathmandu Metropolitan City (Kathmandu District), Lalitpur Metropolitan City (Lalitpur), Melamchi Municipality (Sindhupalchowk), Koshi Rural Municipality (Sunsari District)	BMGF, Yale University and Innovative Poverty Action (IPA)			June to August 2021
12.	Emergency COVID 19 Support-Rapid Action Task Force (C-19 RAT) Project	Ramechhap, Sindhuli, Ilam, Kavre, Dolakha, Mugu, Bajura, Makwanpur District	CNCA, NHCF			June to August 2021
13.	WASH and COVID -19 Response Program	Bagmati Province	UNICEF			March to November 2020
Research and Development						
14.	Data Collection Survey on Water Supply and Sanitation Management of Major Cities of	Dharan, Itahari, Kalaiya, Jitpur Simara Nepalgunj, Ghorahi, Dhangadi, Tulsipur Sub-metropolitan City; Bharatpur and	JICA			November 2019 to November 2021

	Nepal	Biratnagar Metropolitan City		
15	Wastewater-based Epidemiology of SARS-CoV-2 for Averting COVID-19 outbreaks in Nepal (WESCAN)	Kathmandu Valley and Dhulikhel, Kavrepalanchowk	PATH	January, 2021 to March, 2022
WASH and Nutrition				
16.	Suaahara II Good Nutrition program	Taplejung, Panchthar, Sankhuwasava, Solukhumbu, Bhojpur, Dolakha, Sindhupalchok, Rasuwa, Nuwakot, Dhading, Rupandehi, Nawalparasi, Gorkha, Lamjung, Syangja, Myagdi, Baglung, Bardiya, Banke, Dang, Kapilbastu, Arghakhachi, Palpa, Gulmi, 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				
17.	Strengthening Capacity of Education Stakeholders on School Reopening Focusing WASH Intervention and Public Health Measures	Sudurpaschim Province, Karnali Province, Lumbini Province and Province 2	UNICEF	January to March 2021
18.	Reconstruction and resilience of WASH services through capacity building in Nepal.	Kavre, Dolkha, Sindhupalchowk, Nuwakot (4 districts)	CAWST, Canada	February 2017 - March 2020
19.	Green Rooftop Farming Project	Madhyapur Thimi Municipality, Bhaktapur	UN Habitat	January to August 2021
20.	Development of training curriculum on FSM and FSTP		(Tetra Tech) ARD, WASH FIN	August 2020 to March 2021

Annex II: List of Executive Board Members (2020-2023)

 <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>Dr. Rosha Raut (Khadka), Member Secretary Ph.D. Candidate rautrosha@yahoo.com.np</p>
 <p>Mrs. Urmila Joshi, Executive Member M.Sc in Botany joshi_urmila@yahoo.com</p>	 <p>Mr. Pratap Kumar Acharya, Executive Member MBA pratapacharya9@gmail.com</p>
 <p>Dr. Kabita Bade Shrestha, Executive Member Ph. D. kabitabs@gmail.com</p>	 <p>Ms. Padmaja Shrestha, Executive Member Master in Chemistry padmaja.shrestha.pradhan@gmail.com</p>
 <p>Mr. Phurba Sange Moktan, Executive Member Masters in Public Health and Sociology; moktanphurba20@gmail.com</p>	

Annex III: Glimpses of Publications Published in FY 2020/2021

<p>Poster (Fecal Sludge Management)</p>	<p>Poster (Preventive Measures from Waterborne diseases and COVID-19)</p>	<p>Poster (Use of PPE)</p>
<p>Brochure (Importance of Proper Use of Mask)</p>	<p>Flyer (WSP and O&M)</p>	<p>Display Flex (Septic Tank and Soak Pit Design)</p>
<p>Forex (Water Requirement Guideline for Quarantine and Isolation Center)</p>	<p>Special Bulletin 2020</p>	<p>COVID Bulletin 2021</p>

		
<p>Anjali 2077</p>	<p>Booklet (Case Stories from Field)</p>	<p>Guidebook for FCHV on Handwashing and Water Purification Methods</p>
		
<p>Standard Septic Tank Design Manual</p>	<p>Water Safety Plan for Water Supply Scheme</p>	<p>Trainers Manual on BCC for Triggers</p>
		
<p>Sanitation Situation Report of Bhimdatta Municipality</p>	<p>SWM Strategic Plan</p>	<p>Annual Report 2020 of ENPHO</p>

Annex IV: Awards and Recognition Presented by ENPHO



ENPHO Tara- Best Employee of the Year 2077 Award presented to Ms. Srijana Karki (Senior WASH Officer)



Hutaram Environment Award 2077 presented to Ms. Sanu Maiya Maharjan



Bigyan Memorial Research Award 2020 awarded to Mr. Nabin Bogati (ME/MS in Sanitation Technology student, KU)



Raju Memorial Youth Award 2020 presented to Paschim Paaila for the Mask-Mandu Campaign



Bhairab Risal Media Fellowship Award 2077 presented to Mr. Santosh Pokharel (Reporter)

Annex V: Financial Audit Report



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 2078 Income and Expenditure, Receipt and Payment Statement for the period 01 Shrawan 2077 to 31 Ashad 2078 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 2078 Income and Expenditure, Receipt and Payment Statement for the period 01 Shrawan 2077 to 31 Ashad 2078 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: 12 Mangsir 2078
Place: Kathmandu, Nepal
UDIN: 211128CA00504WQM55



LR Sharma & Associates
Chartered Accountants

12 Mangsir 2078 (28 November 2021)

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 2077/78.

Dear Sir;

We are pleased to submit our report on the results of statutory audit for the fiscal year 2077/78.

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 9 executive board members, 134 general members and is managed by 111 staff members and 29 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 2078 (15 July, 2021), Statement of Income & Expenditure and Fund Accountability Statement for the period 01 Shrawan 2077 to 31 Asadh 2078 (corresponding to 16 July 2020 to 15 July 2021), presents fairly in all material respects, project revenues and costs incurred for the period audited and balances as on 31 Asadh 2078.



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 Mangsir 12, 2078 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 2078 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 Mangsir 12, 2078.

D. Status of prior year's audit recommendation

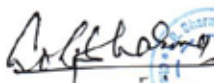
We have performed follow up of prior year's audit recommendation as Management Letter was issued to ENPHO during the previous year audit.

E. Management Letter and Management Response

We have issued our management letter on Mangsir 12, 2078 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 2078
As on 15 July 2021

Particulars	Schedule	Amount (Rs.)	
		2077/78	2076/77
A. Sources of Fund			
Capital Fund Balance		1,070,081.30	1,070,081.30
Revaluation Surplus Fund		3,727,427.65	3,815,395.61
Surplus Fund	1	32,457,296.52	23,226,486.73
Total Sources of Fund		37,254,805.47	28,111,963.64
Applications of Fund			
B. Fixed Assets			
	2	7,231,656.16	7,908,001.23
C. Current Assets, Loans & Advances			
Program Advance and receivables	3	7,110,628.91	7,787,710.32
Other Advance and Deposit	4	5,667,010.58	3,909,485.55
Project Advances/Receivables of Other program	5	6,487,962.11	5,769,614.99
Cash & Bank Balance of Project Accounts	6	37,531,236.68	24,810,187.17
Cash & Bank Balance of ENPHO	7	53,977,621.49	30,593,861.78
		110,774,459.77	72,870,859.81
D. Less: Current Liabilities & Provisions			
Liabilities for on Going Other Programs	8	38,295,553.67	32,976,547.51
Sundry Creditors	9	7,772,976.11	5,695,624.87
Liabilities for on Going Programs of Donors (Fund)	10	34,682,780.68	13,994,725.02
		80,751,310.46	52,666,897.40
E. Working Capital (C-D)			
		30,023,149.31	20,203,962.41
Total Application of Fund (B+E)		37,254,805.47	28,111,963.64

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


Nirajan 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: 12 Mangsir 2078
Place: Kathmandu, Nepal

Environment and Public Health Organization (ENPHO)
New Baneshwor, Kathmandu
Income Statement
As on 31 Ashad 2078
As on 15 July 2021

Particulars	Schedule	Amount (Rs.)	Amount (Rs.)
		2077/78	2076/77
Income			
Remittances From Donors		102,250.00	-
Remittances From other Project Activities	12	181,536,573.68	180,653,179.71
Income from Activities	13	21,270,401.64	19,896,756.04
Income from Other Activities	14	31,669.46	225,543.41
		202,940,894.78	200,775,479.16
Expenditure			
Program Cost	15	88,899.20	-
Program Cost of Other Project activities	16	173,447,852.67	183,567,097.92
Institutional / Administrative Cost	17	7,583,822.59	6,546,666.65
Repair & Maintenance	18	184,565.47	44,805.77
Other Activity Expenses	19	3,195,371.77	1,864,265.83
Expenditure Incurred to Projects	20	7,871,873.03	6,642,495.05
Depreciation	2	785,345.07	903,143.91
		193,157,729.80	199,568,475.13
Excess of Income over Expenditure		9,783,164.98	1,207,004.03

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


Nirajan 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: 12 Mangsir 2078
Place: Kathmandu, Nepal

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

Receipt and Payment Statement

As on 31 Ashad 2078

As on 15 July 2021

Receipt	Schedule	Amount (Rs.) 2077/78	Amount (Rs.) 2075/76	Payment	Schedule	Amount (Rs.) 2077/78	Amount (Rs.) 2075/76
Op. Cash & Bank Balance (ENPHO)	7	30,593,861.78	31,875,485.70	Liability of Donors	10	13,994,725.02	31,875,485.70
Op. Cash & Bank (Project Accs.)	6	24,810,187.17	19,859,114.07	Op. Liability of other Program	8	32,976,547.51	19,859,114.07
Opening Staff Advances		-	-	Op. Sundry Creditors	9	5,695,624.87	3,814,276.01
Op. Program Advances & Receivables	3	7,787,710.32	3,195,371.77	Op. Sundry Creditors	19	3,195,371.77	1,864,265.83
Op. Project Adv. Receivable	5	5,769,614.99	-	Purchase of Non-Expendable Equipment	2	109,000.00	-
Op. Other Advance and Deposit	4	3,909,485.55	-	Administrative Expenses	17	7,583,822.59	6,546,666.65
Fund Received from Projects	11	102,250.00	-	Repair & Maintenance	18	184,565.47	44,805.77
Fund from Other Project Activities	12	181,536,573.68	-	Project Expenses	15	88,999.20	-
Income From Activities	13	21,182,433.69	-	Other Project Activities Exps.	16	173,447,852.67	183,567,097.92
Interest earned From Other Activities	14	31,669.46	-	Expenditure Incurred to Project	20	7,871,873.03	6,642,495.06
Disposal of Non-Expendable Equipment	2	-	-	Program Advance & Receivables	3	7,110,628.91	7,787,710.32
Closing Sundry Creditors	9	7,772,976.11	-	Other Receivable & Deposit	4	5,667,010.58	3,909,485.55
Closing Liability for Other Program	8	38,295,553.67	-	Project Advance Receivable of other	5	6,487,962.11	5,769,614.99
Closing Liability for Ongoing Program (Fund)	10	34,682,780.68	-	Cash & Bank Balances / ENPHO	7	53,977,621.49	30,593,861.78
				Cash & Bank Balances (Project)	6	37,531,236.68	24,810,187.17
				Tax Adjustment 2073/074		552,355.20	
Total		356,475,097.10	327,085,066.81	Total		356,475,097.10	327,085,066.81

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


Nirajan 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: 12 Mangsir 2078
Place: Kathmandu, Nepal

Environment and Public Health Organization (ENPHO)
New Baresheer, Kathmandu
For the period ended
31 Ashad 2078

Schedule 2

Fixed Assets (NBH)-Expendable
As on 31 Ashad 2078
As on 15 July 2021

Particulars	Gross Block		Disposal during the year	Total value as on 31 Ashad 2078	Net Book Value as on 31 Ashad 2078	Rate	Depreciation		Net Block	
	Historical cost	Addition during the year					As at 2078	Total Accumulated Depreciation as at 31 Ashad 2078	As at 31 Ashad 2078	As at 31 Ashad 2077
Land 1-02-0-0				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	2,882,833.97	5%	144,141.70	3,741,760.45	2,738,692.27	2,882,833.97
Office Furniture (Wooden & Steel)	2,876,828.70			2,876,828.70	336,016.18	25%	84,004.05	2,624,814.57	252,012.13	336,016.18
Office Equipment: a) Computer, Printer, Laptop FAX b) Multimedia, Fax Mac Computer & Printer-Lab Lab Equipment- (AAS, GC etc.)	5,067,687.43	109,000.00		5,176,687.43	4,370,184.05	25%	201,625.85	4,571,809.90	604,877.53	697,503.38
				411,710.59	368,604.70	25%	10,776.47	379,381.17	32,329.42	43,105.89
	13,956,359.64			13,956,359.64	12,594,865.68	15%	204,224.09	12,799,089.77	1,157,289.87	1,361,493.96
				13,064.00	12,472.21	25%	147.95	12,620.16	443.84	591.79
Vehicles (include Motor)	4,747,261.50			4,747,261.50	4,570,003.84	20%	35,451.53	4,605,455.37	141,808.13	177,257.66
Software	858,753.00			858,753.00	695,557.70		96,597.65	762,155.35	96,597.65	193,195.30
Solar Panel	56,000.00			56,000.00	79,832.00	25%	5,292.00	82,124.00	15,876.00	21,168.00
Miscellaneous	55,341.25			55,341.25	83,006.15	25%	3,083.78	86,089.93	9,251.32	12,335.10
Total	36,787,956.83	109,000.00		36,896,956.83	28,879,955.60		785,345.07	29,665,300.67	7,231,556.16	7,908,001.23



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Annex VI: Proposed Budget for FY 2078/079 (2021/2022)

ENVIRONMENT & PUBLIC HEALTH ORGANIZATION (ENPHO)

2078/079

S.N	Projected Income 2078/079	Amount NPR
1	Administration Support Cost / Management Cost	14,650,000.00
2	Pipe line Projects	50,000,000.00
3	Training, Rent & Royalty Income	2,800,000.00
4	On-going Projects	146,500,000.00
Total		213,950,000.00

Environment and Public Health Organization (ENPHO)
New Baneshwor
Budget for the Fiscal Year 2078/079

Administrative Cost (Projected Expenses 2078/079)

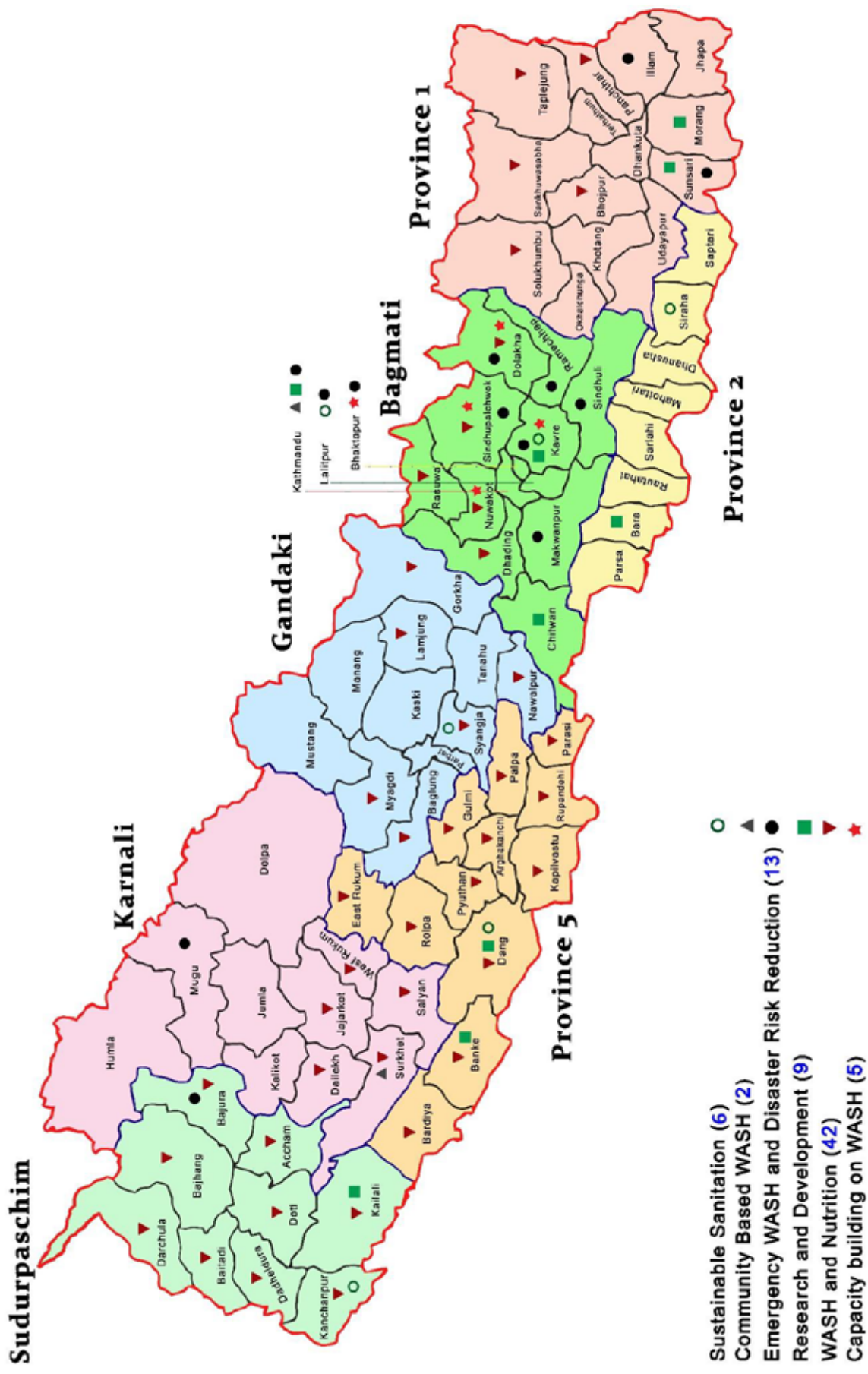
S.N	Details	Amount NPR
1	Advertisement Expenses	40,000.00
2	AGM	250,000.00
3	Audit Fee	125,000.00
4	Award Expenses	100,000.00
5	Bank Commission	15,000.00
6	Meeting Expenses	180,000.00
7	Capacity Building	150,000.00
8	Day Celebration Expenses	50,000.00
10	Fee & Renewal	150,000.00
11	Fuel	25,000.00
12	Gas	50,000.00
13	Insurance	300,000.00
14	Internal Auditor	240,000.00
15	Internet Expenses	300,000.00
16	Legal Adviser	198,000.00
17	Low Value Assets	150,000.00
18	Monitoring Expenses	200,000.00
19	Printing & Stationary	660,000.00
20	Project Proposal Development	100,000.00
21	Refreshment	720,000.00
22	Repair & Maintenance	600,000.00
23	Repair & Maintenance Computer	450,000.00
24	Research	200,000.00
25	Security Guard	720,000.00
26	Software/ Social media and Website Renewal Expenses	300,000.00
27	Staff Salary	10,512,000.00
28	Telephone	100,000.00
29	Transportation	150,000.00
30	Water & Electricity	600,000.00
Total		17,635,000.00

ACRONYMS

AAS	Atomic Absorption Spectrophotometer
ACAP	Annapurna Conservation Area Project
AIT	Asian Institute of Technology
AWF	Appropriate WASH facilities
BCC	Behavior Change Campaign
BCD	Behaviour Centric Design
BSF	Bio- sand Filter
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
CNCA	Calgary Nepalese Community Association
ConCAD	Consulting Capacity Development of Urban Sanitation
COVID 19	Coronavirus Disease
CRWSP	Climate Resilient Water Safety Plan
CWF	Community Women Forum
CWIS	City-Wide Inclusive Sanitation
C-19 RAT	COVID 19 Rapid Action Taskforce
DAG	Disadvantage Group
DEO	District Education Office
DEWATS	Decentralized Wastewater Treatment System
DFID	Department for International Development
DPR	Detail Plan Report
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	Fecal Sludge Management
FSTP	Fecal 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
IPA	Innovative Poverty Action
ISO	International Standards Organization
IUWM	Integrated Urban Water Management
IWM	Integrated Water Management
J-WAFS	Abdul Latif Jameel Water and Sanitation Food Systems Lab
K-Eco	Korean Environment Corporation
KMC	Kathmandu Metropolitan City

KVWSMB	Kathmandu Valley Water Supply Management Board
LSF	Learning and Sharing Friday
MDG	Millennium Development Goal
MHC	Model Health Community
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
M-WASH-CC	Municipality Level WASH-Coordination Committee
NBSM	Nepal Bureau of Standard & Metrology
NHCF	Nepali Heritage Charity Foundation
NMICS	Nepal Multiple Indicator Cluster Survey
NORM	No-cost mask distribution, Offering information, Reinforcement, Modeling
NSS	Non-Sewered Sanitation
O&M	Operation & Maintenance
ODF	Open Defecation Free
OHS	Occupational Health and Safety Measures
OHSS	Occupational Health, Safety and Safeguarding
PMIS	Project Management Information System
PoU	Point of Use
PP	Paschim Paaila
PPE	Personal Protective Equipment
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	<i>Sexual and Reproductive Health and Rights</i>
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

ENPHO Project Location FY 2020/21



मानव मलमूत्रीय फोहोरको उचित व्यवस्थापन गरौं



“सबै मिली गरौं मानव मलमूत्रीय फोहोरको उचित व्यवस्थापन,
अब नचुकौं बनाउन स्वच्छ वातावरण र स्वस्थ जीवन”