

Annual REPORT



2022

31st Annual General Meeting



Environment and Public
Health Organization

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Health Organization

Submitted To:

31st Annual General Meeting F/Y 2078/2079

Environment and Public Health Organization (ENPHO)

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Vision

Creating Eco-Societies



VISION



MISSION

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

GLORIOUS 31 Years

Once again, we are presenting our Annual Report 2022 with an enormous gratification and pride. It is a journey of 31 glorious years with a great deal of experiences and countless learning.

Two years of devastating pandemic have trained our ENPHO family to do things differently, react more quickly, be more upbeat, and adaptable in managing our relationships with our partners and stakeholders. As it did in 2020-2021, the pandemic affected every aspect of life and work which is reflected in 2022, though in diverse ways. Under these conditions, we leveraged what we learned and developed new ways of adapting to cater more efficiently and effectively.

This year we are continuing with our ongoing programs under thematic areas, Urban Sanitation- Piloting of FSM Standard in Nepal Implementation which was started from Mahalaxmi Municipality, Lalitpur and this year the project is planned to be replicated in Godawari, Lalitpur and Waling Municipality, Syangja. Similarly, Municipalities Network Advocacy on Sanitation in South Asia (MuNASS Phase II) is being implemented in 7 municipalities in 7 provinces.

This year we have started two multi year projects; Citywide Inclusive Sanitation Scaling and Sanitation Innovation which primarily focuses on capacity building of Citywide Inclusive Sanitation and its innovation. This project started in November 2021 and will last till December 2025.



Er. Rajiv Joshi
Chairperson



Ms. Bhawana Sharma
Executive Director

After a long gap ENPHO is once again addressing the issue of air pollution by a project 'USAID Clean Air'. It is an opportunity to improve the air quality in the Kathmandu Valley approaching national ambient air quality standards leading to improved health and educational outcomes. Over the 4.5-year period (February 2022-August 2026), this project will be carried out in 18 municipalities of Kathmandu Valley, but will initiate its activities in five municipalities in Year I which will serve as demonstration sites and references for expansion to the remaining 13 municipalities.

We are also focusing on Integrated WASH through various projects like, Suaahara II Good Nutrition program, WASH SDG Nepal Implementation, Integrated Urban Water Management at the Center of Municipal Public Services (IUWM Project).

In 2022, we will end our popular Suaahara II Good Nutrition program, which we implemented in two phase of the program. It was total 7-year initiative and ENPHO's role in the program was to enhance clean water, sanitation, and hygiene conditions of household facilities and establish private sector linkages to promote WASH technologies. Integrated Urban Water Management at the Center of Municipal Public Services (IUWM Project) focuses on sustainable management of water and sanitation services through integrated approaches incorporating various urban issues, whereas WASH SDG Nepal Implementation aims to contribute to the government's target on SDG goal of Water, Sanitation and Hygiene.

This year ENPHO participated actively on some networking with International Water Association (IWA) Nepal Chapter - Ad Hoc Committee Member, International Training Program in Sustainable Urban Water and Sanitation Integrated Processes - Member, Sanitation and Water for All (SWA) Catalytic Fund, Freshwater Action Network South Asia (FANSA) Interim Plan of Action Project, and amplifying community voices to influence the process and outcome of SACOSAN VIII.

We have successfully conducted few researches like Wastewater-based Epidemiology of SARS-CoV-2 for Averting COVID-19 outbreaks in Nepal (WESCAN), Faecal Sludge Characterization Study in Kathmandu Valley, Data Collection Survey on Water Supply and Sanitation Management of Major Cities of Nepal, and also have been a part of the project "Achieving Resilient and Water Safe Urban Communities in selected areas of Kathmandu Valley" which Involved laboratory research and the community interfaces.

ENPHO always strives to contribute the cause by complying with national and international goals and demands. Subsequently ENPHO will gradually seek the opportunity to work on pertinent issues like Climate Change and focus more on sanitation with Citywide Inclusive approach. Research will be one of the cross-cutting areas where we want to expand more.

On this note, we wish to express our deepest appreciation to all the stakeholders, partners and donor communities. We are looking forward for everyone's unstinting support as usual.

Thanks .

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)
- Asian Institute of Technology (AIT) Thailand
- Bill & Melinda Gates Foundation, USA (BMGF)
- Bremen Overseas Research and Development Association (BORDA, Germany)
- Consortium of DEWATS Dissemination Society (CDD Society), India
- CEMAT Water Lab Pvt. Ltd.
- Dasra
- Department of Health Service (DHS)
- Department for Water Supply and Sewerage Management (DWSSM)
- Dhulikhel Hospital
- FHI 360
- Helen Keller International (HKI)
- Innovative Solution Pvt. Ltd.
- Institute for Water Sanitation (IHE Delft)
- International Training Network - Bangladesh University of Engineering and Technology (ITN-BUET)
- Japan International Cooperation Agency (JICA)
- Kathmandu University (KU)
- Kathmandu Valley Water Supply Management Board (KVWSMB)
- Ministry of Water Supply
- Municipal Association of Nepal (MuAN)
- Nepal Bureau of Standards and Metrology (NBSM)
- Oxfam Nepal
- PATH
- PID (Project Implementation Directorate)
- SIMAVI
- Social Welfare Council (SWC)
- Standardization Metrology Testing and Quality (SMTQ) forum Nepal
- Sustainable Sanitation Alliance (SuSanA)
- Swiss Federal Institute for Environment Science and Technology (Eawag),
- Tribhuvan University (TU)
- United Cities and Local Government- Asia Pacific (UCLG-ASPAC)
- United Nations Children's Fund (UNICEF)
- UN Habitat
- United States Agency for International Development (USAID)
- Water Aid (WAN)

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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.

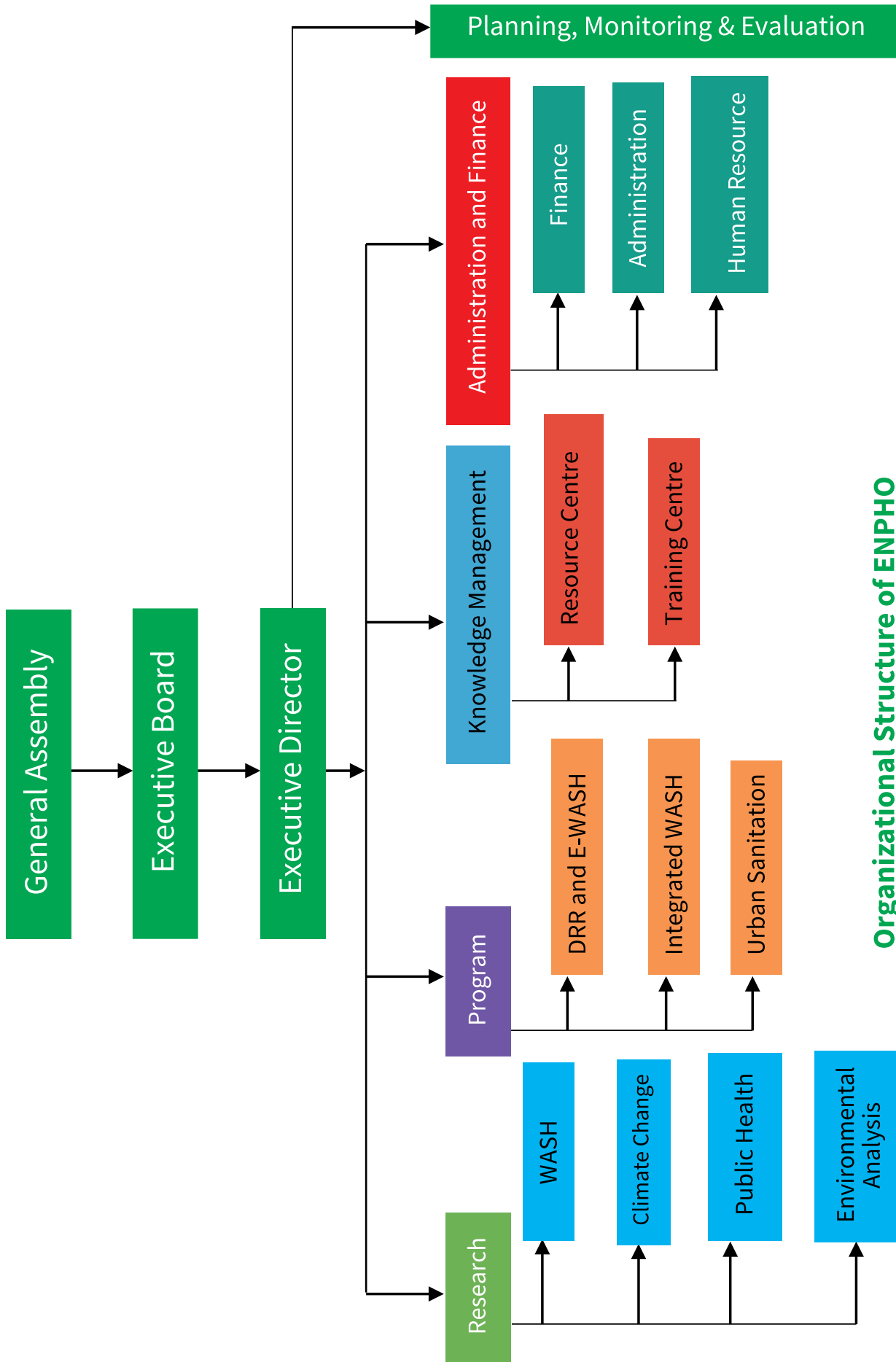
Strategic Objectives

- 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 programmes to promote eco-friendly societies;
- Network with partners for coordination and advocacy;
- Enhance local capacity.

Over the few years, ENPHO's interventions has been focused in contributing to realization of the National SDG targets. Therefore, ENPHO is:

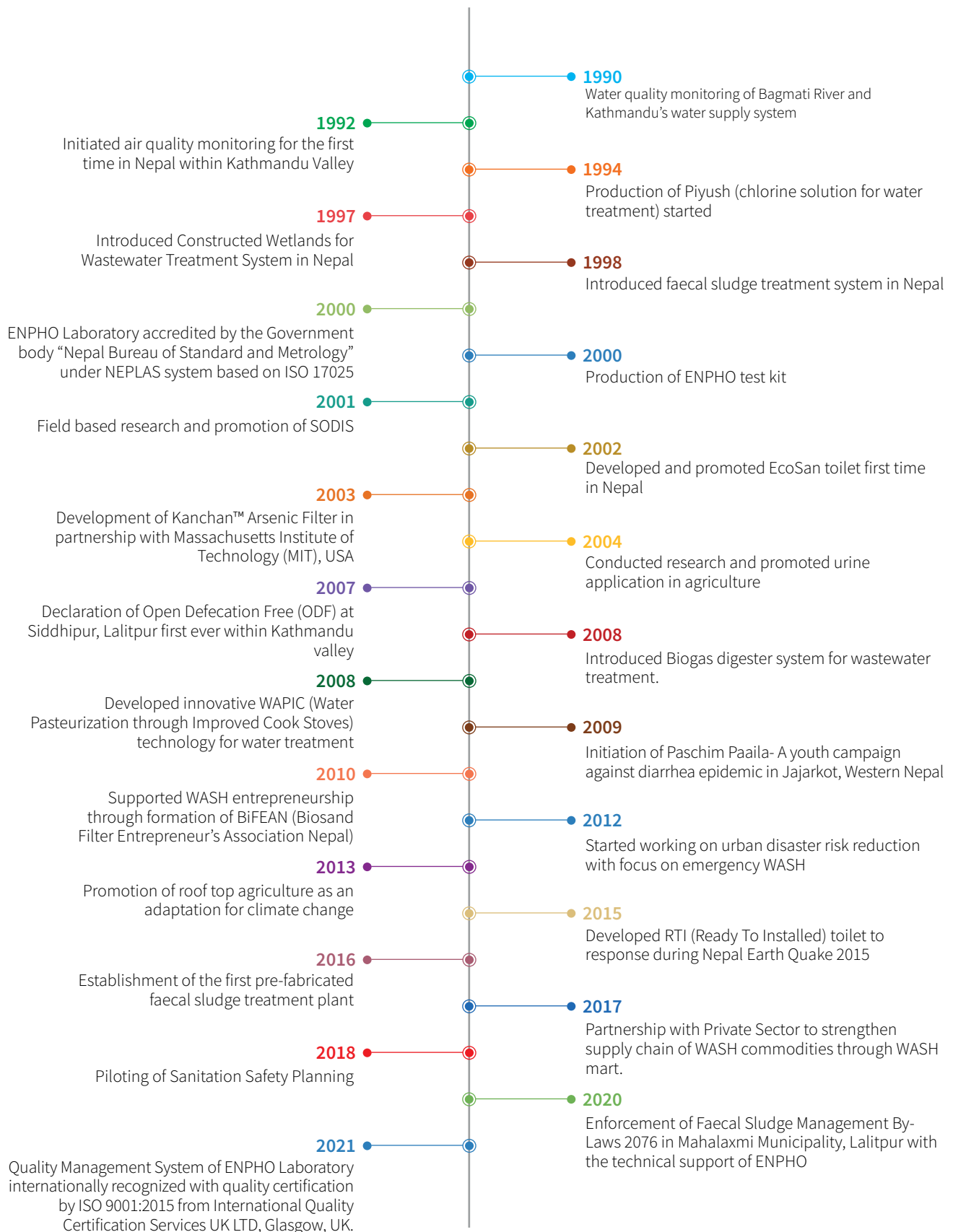
- Advocating for safely managed drinking water services through local capacity building and scaling-up promotion of low-cost drinking water supply and treatment systems;
- Demonstrating safely managed sanitation services by effective management of fecal sludge, wastewater and solid waste including promoting 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 **136 members** that elects an Executive Board once every three years. The Executive Director leads **123 staff members** of which **37%** are female.



Organizational Structure of ENPHO

ENPHO's Milestones



Our Work at a Glance

During the year 2021/22, ENPHO carried out various projects and programs in the areas of safe water, sustainable sanitation, Integrated WASH, E-WASH and disaster risk reduction, research and development, WASH and nutrition and capacity building on WASH. With the support of various donors, partners and supporters, this year ENPHO has been able to conduct **19 projects** benefitting **44,49,610 people** directly and indirectly.

Altogether, 19 projects were carried out in which 10 projects have been completed and 9 are ongoing. Out of 19 projects, 2 were on “Sustainable Sanitation”, 3 on “Integrated WASH”, 4 on “Emergency WASH and Disaster Risk Reduction”, 3 on “Research Development”, 1 on “WASH and Nutrition”, 2 on “Capacity building on WASH”, 3 on “Advocacy on WASH” and 1 on “Air Quality”.

Within this year, altogether, **20,175 people** benefitted through **Sustainable Sanitation** projects, **4,84,811 people** were benefitted through **Integrated WASH** projects, **7,00,000 people** benefitted through **Emergency WASH and Disaster Risk Reduction** projects, **30,59,466 people** through **research and development** projects, **1,82,888** through **WASH and Nutrition** projects, **1,650 people** benefitted through **capacity building** projects and programs.

Total Projects and Beneficiaries for this FY 2021/22

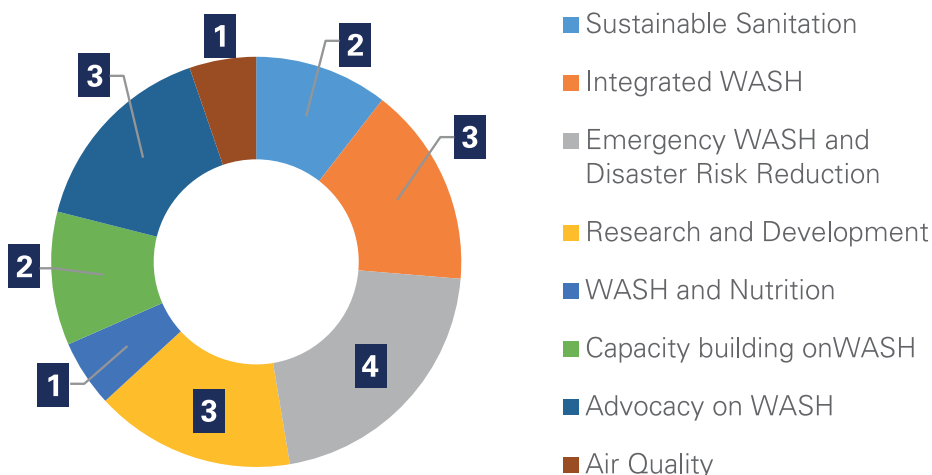
19 Projects



44,49,610

People benefitted directly and indirectly

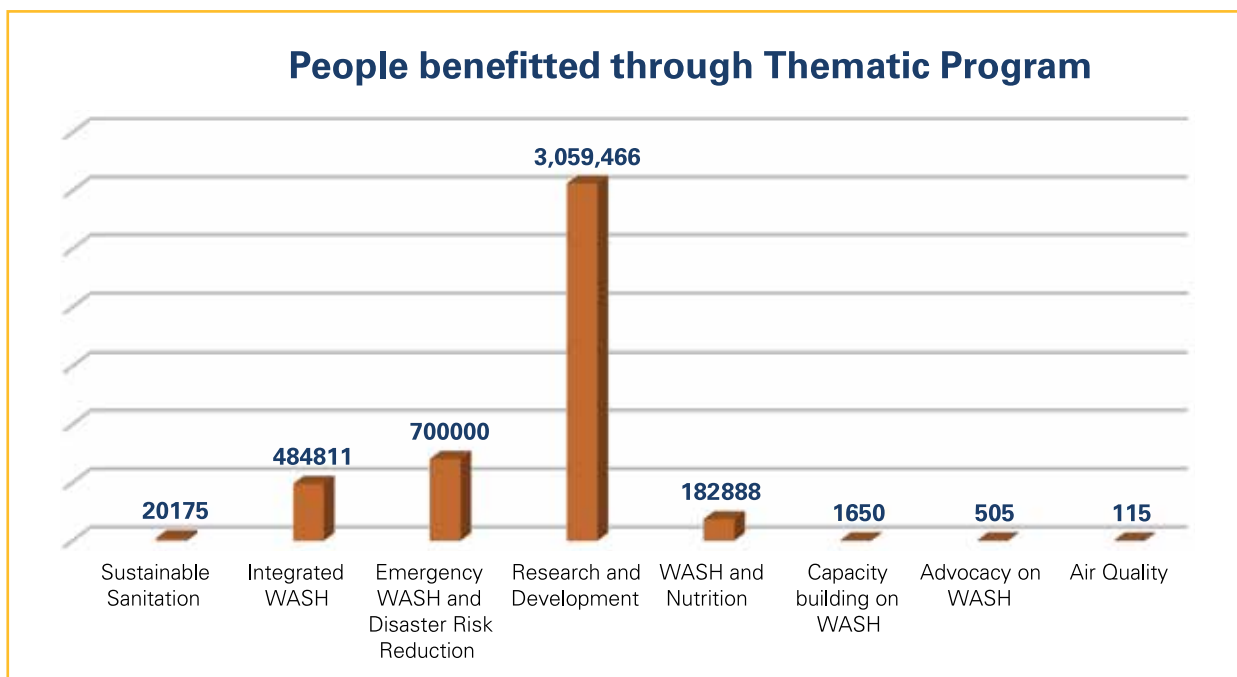
Number of Projects in each Thematic Programs



With this, two different thematic areas has been added this year where 505 people have been benefitted through Advocacy on WASH projects and 115 people were benefitted from Air Quality project.

This year, altogether, **62,224 units** of Piyush and **14,287 units** of Piyush Plus were sold in partnership with EcoConcern Pvt. Ltd.

For this 2021/22, ENPHO Training Centre developed **7 new training packages** internal and external projects. In addition to this, ENPHO Resource Centre published **61 publications and IEC materials** for various projects, programs and events. With this, **20 videos** with WASH messages were developed and were disseminated through official YouTube channel and other social media platform. This year, ENPHO also introduced itself to new social media platforms like LinkedIn, Instagram and Twitter.



ENPHO is governed by Executive Board comprising of 8 members. In F/Y 2078/79, altogether 7 Board Meetings were organized.

This year, ENPHO lost one of our Founder Member, Late Raj Kumar Shrestha. ENPHO family expresses heartfelt condolences to the bereaved family.

Thematic Programs

1. Safe Water

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 also one of the best options to treat water during emergency situations, epidemic and disaster response. ENPHO Laboratory produces the chlorine solution “Piyush” and is being distributed and promoted through various projects and partners.

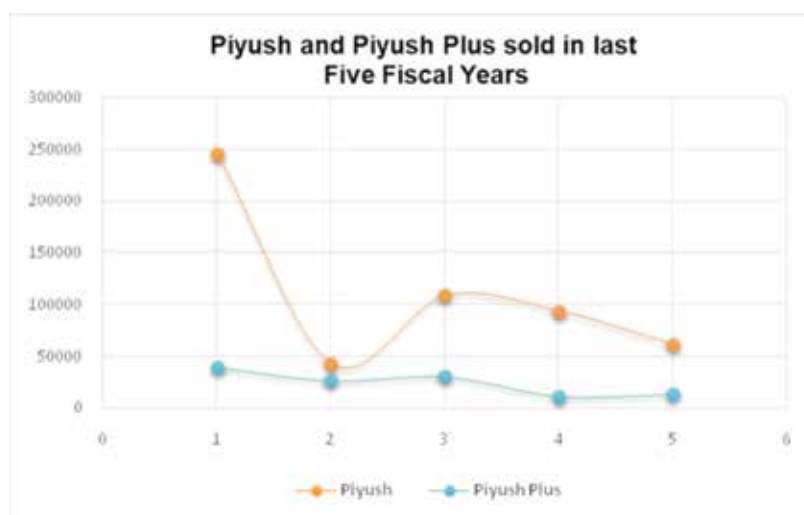
During the year 2021/22, altogether **62,224 units of Piyush** were sold.

Piyush Plus

“Piyush Plus” is another chlorination 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 litres of water.

Altogether, **14,287 units of Piyush Plus** were sold in this fiscal year.

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



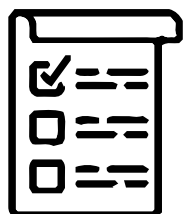
2. Sustainable Sanitation

ENPHO is promoting sustainable sanitation that are economically viable, socially acceptable, technically and institutionally appropriate, and environmentally 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 2021/22, under “Sustainable Sanitation” thematic program, altogether, 2 projects were implemented with the support of various partners directly benefitting **20,175** People.

The projects are adopting a City-Wide Inclusive Sanitation (CWIS) principles while establishing and implementing a fully functional FSM service delivery model addressing the entire sanitation service chain. This year, under the Pilot Implementation of FSM Standard in Nepal project, Mahalaxmi Municipality launched the IMIS established in the Municipality.

Additionally, under the project ‘Municipalities Network Advocacy on Sanitation in South Asia’, among 5 pilot municipalities, Detailed Project Report (DPR) of Co-Treatment Plant (Wastewater+ Faecal Sludge Treatment Plant) at Shrikhandapur, Dhulikhel Municipality was implemented.



2
Projects



20,175
People

Pilot Implementation of FSM Standard in Nepal

Status: Ongoing

Project Partner:

Funded by: Bill and Melinda Gates Foundation (BMGF)

Project Partner: Kathmandu Valley Water Supply Management Board (KVWSMB), Nepal Bureau of Standards and Metrology (NBSM), Innovative Solution Pvt. Ltd.

Project Area: Mahalaxmi Municipality, Lalitpur; Godawari Municipality, Lalitpur; Waling Municipality, Syangja

Project Duration: January 2019 to December 2021 (Phase I)
January 2022 to December 2023 (Phase II)

Aim

- To contribute to achieve SDG 6.2

Project Description

Like in many developing countries, over 70 percent of the population in Nepal rely on Non Sewered Sanitation (NSS) services such as pit latrines and septic tanks (Source: Central Bureau of Statistics (2011), Government of Nepal). As the number of municipalities has now increased to 293 (2017) from 58 (2014) with many of the small and emerging towns also being classified as municipalities, the percentage of households connected to septic tanks has further increased. However, NSS and Faecal Sludge Management (FSM) systems in cities, small and emerging towns are poor and unregulated due to various reasons. Inadequate policy and budget priorities, weak policy enforcement, lack of standard designs and its implementation, ignorance towards adopting and adhering to safely managed sanitation system are few key reasons for poor management and haphazard disposal of fecal sludge into the environment and river resulting to significant public health risks and environmental pollution.



Installation of Septic Tank at Mahalaxmi Municipality

With this backdrop, Environment and Public Health Organization (ENPHO), with the support of Bill and Melinda Gates Foundation (BMGF) is implementing 'Pilot Implementation of FSM Standard in Nepal' project for the management of basic on-site domestic wastewater services in Municipalities.

To achieve these objectives, ENPHO is collaborating with the Municipalities, Kathmandu Valley Water Supply Management Board (KVWSMB), Nepal Bureau of Standards and Metrology (NBSM) and other relevant stakeholders. This project is the first of its kind in Nepal and globally.

As part of the piloting, the project is adopting a City-Wide Inclusive Sanitation (CWIS) principles while establishing and implementing a fully functional FSM service delivery model addressing the entire sanitation service chain- containment, transportation, treatment and end use/disposal in Mahalaxmi Municipality and its replication in the other two Municipalities.



Submission of Feecal Sludge Dewatering Plant design report to KVWSMB

Project Outputs

- For the promotion of safe containment and use of standard septic tank, ENPHO installed Ready to Install (RTI) septic tank with soak pit in a public toilet in Ward-2, Bishankhunaryan in Godawari Municipality and at a health post in Ward-6 office premises, Lele;
- 29 Municipal staff and 39 engineers from consulting firms in Mahalalaxmi Municipality trained on standard septic tank design;
- 119 sanitation workers (15 percent female) from Kathmandu Valley oriented on occupational health and safety (before, during and after work);
- Organized orientation program on Citywide Inclusive Sanitation and Integrated Municipal Information System (IMIS) to the then Mayor and Department Chiefs of Mahalaxmi Municipality;
- Organized learning visit program in Vadodara, India for the representatives from KVWSMB, PID and private companies to provide learning opportunities about possible treatment technologies for FSM and its replication in the project;
- Prepared project document for implementation of IMIS in Mahalaxmi Municipality and its readiness assessment in one town of Nepal;

- Five municipal staff members of Mahalaxmi Municipality oriented on IMIS;
- CWIS orientation organized in Mahalaxmi and Godawari Municipalities;
- 3-D animated video on Lubhu Faecal Sludge Treatment Plant produced for awareness/training programs ;
- Organized orientation program on CWIS and shared FSM By-Laws development process in five municipalities of Sudurpaschim Province (Dhangadi Sub-Metropolitan City, Dhangadi; Bedkot Municipality, Kanchanpur; Mahakali Municipality, Darchula; Dipayal Silgadhi Municipality, Doti and Jayaprithivi Municipality, Bajhang);
- Mobile booth campaign organized in five non-sewered wards (ward 6-Siddhipur, ward 7-Changathali, ward 8-Lubhu and Sankhadevi, ward 9-Lamatar and Dhungin Buspark and ward 10-Lakuri and Fedikhola) of Mahalaxmi Municipality to raise awareness on Faecal Sludge Management (FSM), proper septic tanks and use of PPE by sanitation workers. Despite challenging COVID situation, more than 200 community people visited the booth and directly benefitted from the campaign;
- Produced IEC materials and disseminated them through social media and campaigns;
- Reached more than 1,75,000 views of the animated video to raise awareness on safety, dignity and healthy lives of sanitation workers;



Municipalities Network Advocacy on Sanitation in South Asia (MuNASS) Phase II

Status: Ongoing

Executing Agency	: United Cities and Local Governments Asia Pacific (UCLG ASPAC)
Implementing Agency	: Municipal Association of Nepal (MuAN)
Technical Partner	: Environment and Public Health Organization (ENPHO)
Funded By	: Bill & Melinda Gates Foundation (BMGF)
Duration	: November 2021 to June 2024

Aim/Goal

The goal of MuNASS Phase II is to develop and demonstrate innovation on safely managed sanitation to achieve SDG 6.2 and mainstream into regional agenda, paying special attention to the needs of women and girls and those in vulnerable situations.

Objectives

- Demonstrate innovation on SDG 6.2 measurement by mobilizing cities in South Asia
- Documentation of the Municipal-led investment for CWIS and FSM in South Asia.
- SDG 6.2 are mainstreamed into the regional agenda through advocacy, knowledge exchange and joint activities among municipalities in the Asia-Pacific region.

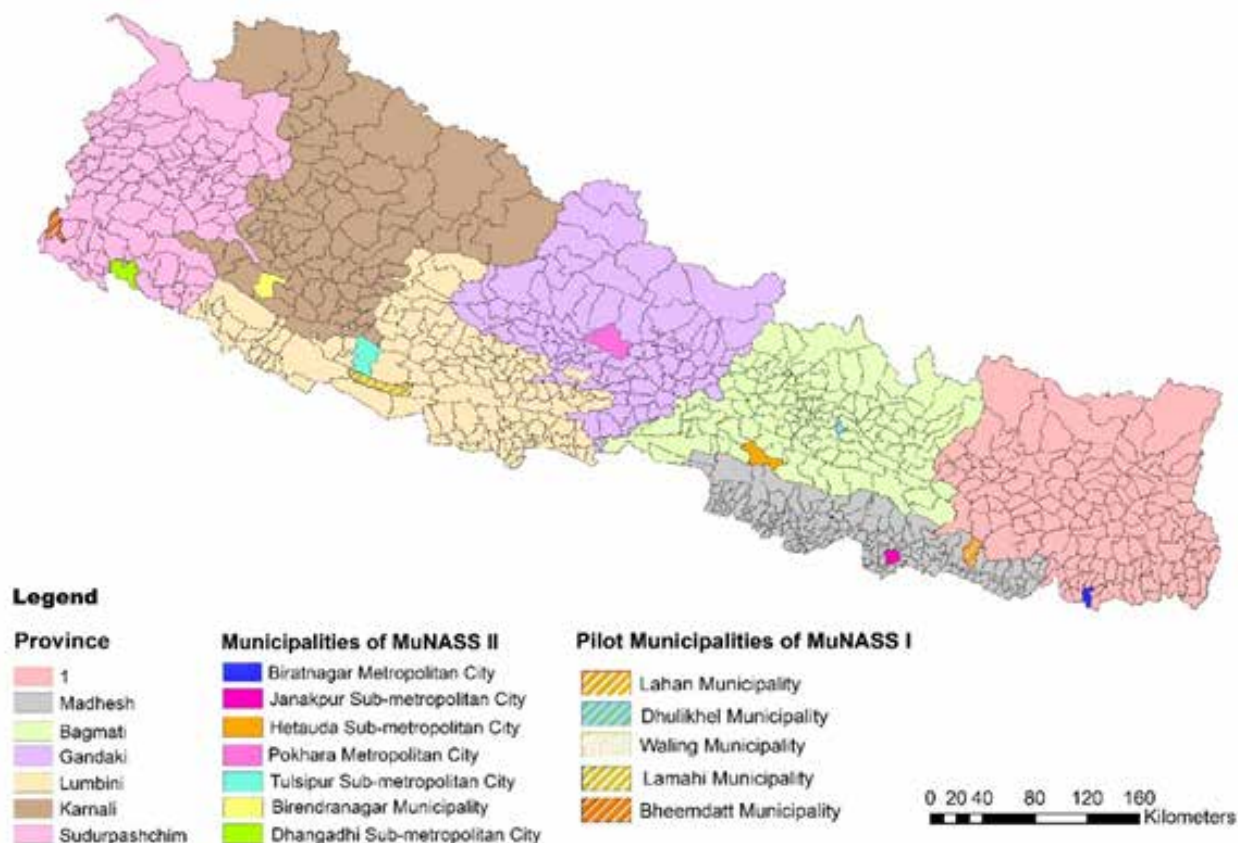
Description

In 2017, phase I of “MuNASS program” was implemented to support the roll-out of the Institutional and Regulatory Framework (IRF) for Faecal Sludge Management in Nepal. After implementation of the Phase I of the MuNASS program, a need to scale up the program was recognized. In this perspective the Phase II of MuNASS program was planned to support to achieve SDG 6.2 targets.

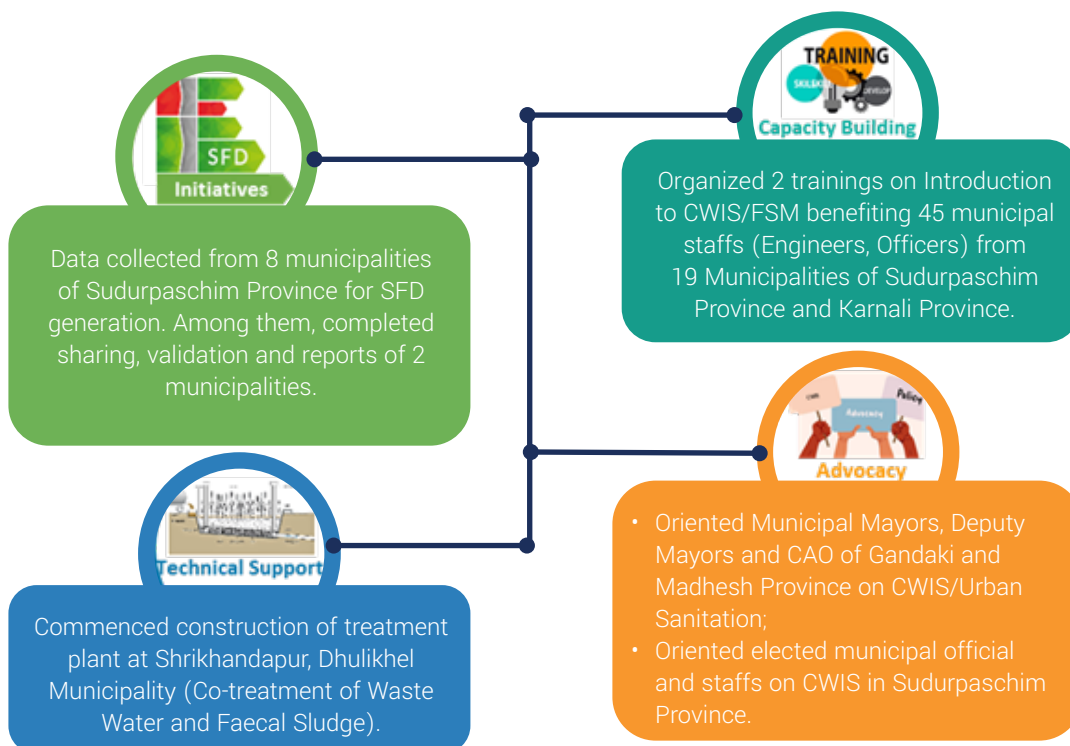


Introduction of CWIS on MuAN Day

Program Locations of MuNASS I and MuNASS II in Nepal



Outputs



Major Achievement

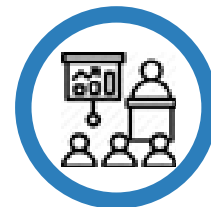
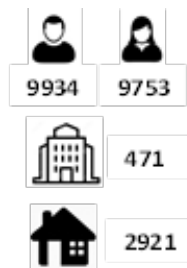


Implemented Detailed Project Report (DPR) of Co-Treatment Plant (Wastewater + Faecal Sludge Treatment Plant) at Shrikhandapur, Dhulikhel Municipality. Dhulikhel Municipality was one among 5 pilot municipalities of MuNASS Phase I.

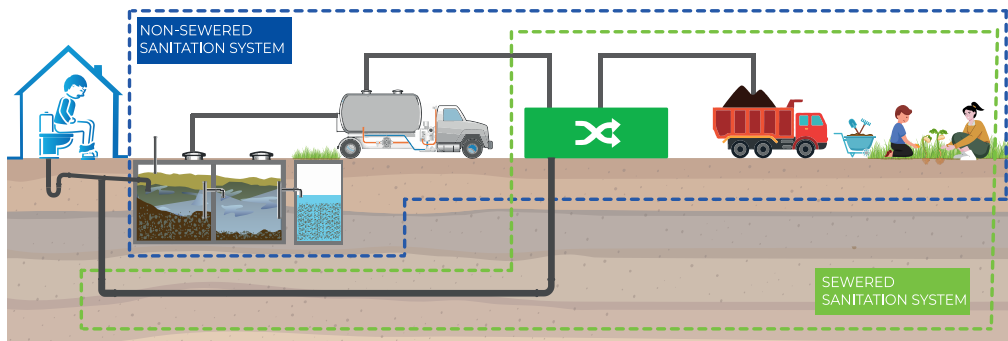
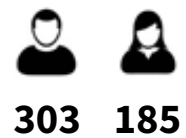
Beneficiaries



Total Beneficiaries
20,175



Advocacy & Capacity building



MoU signing with Municipalities to conduct MuNASS II in presence of Rt. Honorable Prime Minister of Nepal



Delivering Session on CWIS Training

Environment and Public Health Organization

3. Integrated WASH

ENPHO has been involved in Integrated WASH projects to increase people’s access on safe water, sustainable sanitation and improved hygiene facilities and services. During this fiscal year 2021/22, ENPHO, with the support of various partners, implemented **3 projects** on Integrated WASH benefitting **4,84,811** people.

This year, under the WASH SDG project, ENPHO worked to improve private and public sector equitable and sustainable WASH service delivery and governance.

This year, with the support of BORDA, ENPHO under ‘Integrated Urban Water Management at the Center of Municipal Public Services’ project revived the traditional stone spouts at Simako Dhara, Godawari in co-funding approach with the municipality.

With this, conventional public toilet at Chapagaun, Godawari was renovated into the modern automated featured public toilet.

Under ‘Towards Achieving Resilient and Water Safe Urban Communities in Selected Areas of Kathmandu Valley’ project, ENPHO assessed the existing situation of drinking water and identify hazards, risks, and control measures. The project also supported in reviewing and developing water safety plans including implementation.



3

Projects



4,84,811

People

WASH SDG in Nepal

Status: Ongoing

Project Partner: WASH Alliance International (WAI)

Consortium Partner : Local Municipalities, Biruwa Advisors Pvt. Ltd., Sahakarmi Samaj, AKVO Nepal, Lumanti, CIUD, Geruwa & NFCC

Dutch Assistant: Simavi, RAUF, RAIN/Hivos, WASTE

Project Area: Bheriganga Municipality (Ward no. 1 to 13) & Barahatal Rural Municipality(Ward no. 1 to 10) of Surkhet District, Karnali Province.

Project Duration: July 2018 to June 2020 (Phase I) Completed
July 2020 to March 2023 (Phase II) Ongoing

Aim

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

Project Description

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

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



Conducting training on WSP for water user committee of Barahatal-1 Telpani

Environment and Public Health Organization

Project Outputs

Capacity Building of Municipality

- Prepared Municipal Capacity Building Strategy plan for the both project implementing municipalities;
- Conducted capacity building training on “Gravity-fed and lifting water supply system and sanitation facilities” to technical staffs of four project implementing municipalities of Banke and Surkhet;
- Conducted workshop on Women Participation against Ending Gender-based Violence in WASH, for the Municipal WASH-CC members both in Bheriganga Municipality and Barahatal Rural Municipality;
- Conducted Advocacy Strategy Workshop in the project implementing municipalities to obtain inputs from the relevant stakeholders to feed into the development of the WASH SDG Programme;
- Conducted a two-day long technical training for the masons / technical persons of Bheriganga Municipality and Barahatal Rural Municipality to enhance their knowledge and skill related to construction of septic tank with soak pit and water supply systems;

Formulation of Water Use Master Plan (WUMP)

- Conducted Facilitation training to the technical and social enumerators/ facilitators of Barahatal Rural Municipality to collect socio-economic data for the formulation of the Water User Master Plan (WUMP);
- Conducted Focus Group Discussions (FGDs) among the key stakeholders in all wards of Barahatal Rural Municipality to collect socio-economics and technical data for WUMP;
- Conducted ward level planning meeting to verify and validate data collected for the formulation of the Water Use Master Plan (WUMP) in Barahatal Rural Municipality. In additional, plans related to WASH were also discussed and prioritized during the event;

WASH Plan prepared

- Prepared WASH Plan for Bheriganga Municipality and Barahatal Rural Municipality and shared to the municipality for the endorsement;

Waste Management

- Waste Management Strategic Report of Bheriganga Municipality was prepared and was also approved by the municipal meeting;

Advocacy and coordination

- Supported Barahatal Rural Municipality and Bheriganga Municipality in developing WASH related Act, Regulations and Guidelines. Such as, Water Management Act, WASH Act, Waste Management Regulations, Operation guideline for public toilet etc.;
- Water sample of 101 water sources of Bheriganga Municipality and Barahatal Rural municipality were tested with 27 parameters recommended by Nepal Government;

Formulation of Water Safety Plan

- Formulation of Water Safety Plan for Water and Sanitation Users committee – one at Bheriganga Municipality and four at Barahatal Rural Municipality;

Health Care Institutions (HCI)

- Enhanced capacity of health care workers and representatives of HCIs on WASH facility improvement tools (FIT) in Bheriganga Municipality and Barahatal Rural Municipality;
- Prepared WASH Improvement Plans of 10 HCIs in Bheriganga Municipality and Barahatal Rural Municipality;
- Conducted Orientation on Total Sanitation and Menstrual Hygiene to the female community health workers/volunteers in Bheriganga Municipality and Barahatal Rural Municipality;
- Conducted Orientation on Disinfection and Infection Prevention and Control (IPC) to the waste workers of the health facilities in Bheriganga Municipality;
- Assisted Barahatal Rural Municipality in development of Medical Waste Management Guideline for health care facilities and was shared with Barahatal Rural Municipality for their review and feedback;
- Conducted WASH FIT training to the representatives of health care institutions and WASH improvement plans were prepared for 9 health care institutions (five of Bheriganga Municipality and four of Barahatal Rural Municipality);

Schools

- Prepared WASH Improvement Plans of 10 schools;
- Established Operation and Maintenance Fund in four schools of Bheriganga Municipality;
- Conducted orientation on disinfection for school re-opening was provided for school WASH-CC and Child Club members of the schools in Bheriganga Municipality;

Demonstration:

- Inaugurated Business Model Public Toilet on the occasion of World Toilet Day in Chhinchu, Bheriganga Municipality which was constructed with the financial support of Bheriganga Municipality, Sharada Secondary School and ENPHO under WASH SDG Programme;
- A soak pit was constructed at the Babai Urban Health Post of Bheriganga Municipality, ward no 5 for the management of waste water that comes from the hand washing stations. And also hand washing station was set up at the point of care and outside of health post for out-patients and visitors;
- Installation of bio-sand filter in 1 school of Bheriganga Municipality and 2 schools of Barahatal Rural Municipality;

Hardware Intervention			
		Quantity	Beneficiaries
Water	Rehabilitation of Water Supply Schemes BRM	2	59 HHs
Sanitation	Construction of Public Toilet (Business Model)	1	Per day - 45 People
Institutional WASH	WASH Facility Improvement	9 Schools	1815
		4 Health Care Institutions	

Major Achievements



Increased demand for and use of sustainable and inclusive WASH services.



Improved private sector for the sustainable and equitable WASH services delivery.



Increased participation of women and socially excluded groups.



Improved public sector equitable and sustainable WASH service delivery and governance.

Beneficiaries



Bheriganga Municipality:

41,407

people reached (Male: 12,986 & Female: 13,816)

Barahatal Rural Municipality:

26,802

people reached (Male: 41,407 & Female: 22,262)



Total Beneficiaries from the project

68,209

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

Integrated Urban Water Management at the Center of Municipal Public Services (IUWM Project)

Status: Ongoing

Project Partner: BORDA

Project Area: 7 provinces of Nepal

Project Duration:

Phase II: January 2021 to December 2021 (1st Year- Complete)

Phase II: January 2022 to December 2022 (2nd Year-Ongoing)

Aim

- The project aims to contribute to an improvement in people's living condition and reduces 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, Environment and Public Health Organization (ENPHO) in the partnership with BORDA implemented "Integrated Urban Water Management at the center of municipal services" project in Godawari and Kirtipur municipalities.

Phase II of this project is the continuation of "Integrated Urban Water Management at the center of municipal services" project at Godawari and Kirtipur Municipalities, 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 of the project are:

- Improved infrastructure provision (Integrated / decentralized solutions as pilot demonstrations) and sustainable services delivery;
- Institutional and personnel capacity strengthening of municipalities;
- Improving the systems, guidelines, and standards to introduce integrated / decentralized water and sanitation solutions;
- Advocating the water and sanitation agenda of small municipality and the decentralized and integrated approach;

Environment and Public Health Organization



A girl drinking water from renovated Stone Spout

Project Outputs

Phase II: 2021

- 5 concepts notes developed for water source protection of Godawari, Health care waste management of Kirtipur, Strategic plan of SWM of Kirtipur, School WASH improvement of Kirtipur, FSM and DEWATS of Godawari and Improved sewer networks of Godawari;
- Conducted assessment for SWM strategic plan of Kirtipur, WWTP of Kirtipur, and WSS protection of Godawari;
- 2 funding proposal developed; restoration and renovation of traditional water sources, submitted to Japan Water Forum Fund; and Proposal to implement FSTP in Godawari Municipality developed to Valley Board as the funding agency;
- Consultation meetings conducted to share and gather feedback on digitization of SWM system at Kirtipur Municipality;
- Capacity enhancement through various trainings: Water safety plan development process, provided to Champii WSUC, Godawari, Training on gravity flow system WSS, for the technical officials, O&M DEWATS, to municipal technical officials, and exposure visit to different wastewater treatment and SWM sites around Pokhara;
- SDF lite report developed and handed over to both the municipalities;

Phase II: 2022

- Field verification visits to identify the probable demonstration projects have been conducted;
- DPR on Sustainable Water Supply Management system for Godawari Municipality identified;
- Funding proposal on DEWATS and Co-treatment plant construction submitted to Kathmandu Valley Water Management Board for Kirtipur and Godawari municipality, respectively;
- Technical supervision conducted at two sites of traditional stone spouts renovation;
- Review, consultation, and coordination meetings conducted to continue the demonstrations projects;

- Operational and financial plan developed for Chapagaun public toilet, Godawari;
- Guideline on water source protection initiated to be drafted;
- Orientation on Occupational Safety and Health of Sanitation Workers from solid waste management sector along with half day medical check-up conducted for both the municipalities;
- Municipal annual budget translated to understand the WASH budget allocation;
- Orientation on WASH plan development process provided to external project team;
- SDG localization monitoring based on the framework developed completed for both the municipality;
- 2 days training on Drinking Water Quality and Mass Chlorination conducted to the users' committees from Godawari municipality;

Project Achievement

Phase II: 2022

- Revived the traditional stone spouts at Simako Dhara, Godawari in co-funding approach with the municipality;
- Renovation of conventional public toilet into the modern automated featured public toilet at Chapagaun, Godawari;
- Water Safety Plan developed after the training provided to the user's committee;
- 58 municipal technical officials, water supply and sanitation users committee were trained on various aspects of improved water and sanitation services;
- Phase I of WASH plan development for Kirtipur municipality completed;
- Advisory Committee was formalized, and experts were finalized;
- 27 publications of individual DPRs on water source protection, components of WSS, and traditional stone spouts along with project proposal on strategic plan, concepts on Health care waste management, public toilet improvement plan, and WASH facility operation plan were published;
- 7 videos developed and published through various social media platforms (A Glance in Phase 1 initiatives, Status of Phase 1 Improvement, Simako Dhara Rejuvenation Process, Reflective Workshops for enabling environment, Revival Story of Simako Dhara, Chapagaun Public Toilet and Dignified Work Life);

Phase II: 2022

- Approval from both the municipalities and MOU Signing for project commencement;
- Godawari municipality have submitted budget contribution of NRs. 50 lakh for co-treatment plant construction;
- Technical request letter received with NRs. 45 lakh rupees budget contribution confirmation for demonstration support for water supply scheme;
- DPR for renovation of traditional stone spouts taken over by the Godawari municipality and 2 spouts at ward 2 and 3 has been renovated;
- Guideline on occupational safety and health for the sanitation workers of the solid waste management sectors developed;
- WASH plan of Kirtipur Municipality development process completed and is under review to be endorsed by the municipality;
- Co-organized world water day celebration and organized school arts competition among 12 different schools from the Kathmandu Valley;



Group activity being organized during WSP plan formulation process training

Beneficiaries

65,602

People: Kirtipur Municipality

1,16,045

People: Godawari Municipality



33,195

People: 2021

1,500

People: 2022

Towards Achieving Resilient and **Water Safe Urban Communities** in Selected Areas of Kathmandu Valley

Status: Ongoing

Project Partner: UNICEF

Project Area: Three communities across Mahalaxmi Municipality and Godawari Municipality. Out of which, 2 communities (Ghimirethok, Ward 9 and Mathillo Dovan, Ward 8) are in Mahalaxmi Municipality and 1 community (Basuki Sikharpa, Ward 6) is in Godawari Municipality

Project Duration: November 2021 to March 2023

Aim

- **Capacity enhancement of Municipalities** and their communities on water quality testing and monitoring including solutions for safe water;
- Support selected Municipalities and their communities to **establish a water quality monitoring mechanism**;
- **Capacitate children and citizens to conduct a risk assessment** to further contribute to informed decision-making of the local government on WASH status improvement;
- Support about the communities to **achieve/declare Water Safe Communities** in Kathmandu valley;
- Support selected communities to **ensure water conservation approaches** in the context of growing urbanization and climate change;



Student testing WQ of Street Food Vendor through PA Vial During CCRM

Project Description

As per the Constitution of Nepal, access to safe drinking water is a basic human right. A “one-house – one water-tap” policy is being implemented to progressively realize universal access to safe drinking water by 2030, to meet the Sustainable Development Goal (SDG) targets for drinking water. In response to increasing concerns over water quality, UNICEF aims to support some of the communities to achieve a Water Safe Community, a mechanism where communities and its government are capable to ensure that their water is safe for all inhabitants of the community all the time as per the global definition of safely managed water in communities. With the same aim, ENPHO in support of UNICEF is implementing the project “**Towards Achieving Water Safe and Resilient Communities in selected areas of Kathmandu Valley**” in Mahalaxmi and Godawari Municipality.

The use of contaminated drinking water (due to the lack of safe drinking water) is associated with the transmission of diseases such as diarrhoea, dysentery, cholera, typhoid, hepatitis A and many other diseases. Thus, it exposes individuals to preventable risks, especially children under the age of five.

Therefore, the project intends to assess the existing situation of drinking water and identify hazards, risks, and control measures. The project also supports reviewing and developing water safety plans including implementation (which may require improvement in the existing water supply schemes). Further, the project strengthens monitoring which assures the effectiveness of the plans and water quality testing (at source, reservoirs, network system, tap stand, and household storage) as per guidelines. Besides, the project enhances the capacity of local stakeholders on safe water including the development of a water quality monitoring mechanism to ensure that communities have access to safe drinking water.



Booth Camp organized to disseminate information on safe drinking water at Lubhu

Project Outcomes

- 379 samples were tested with the MICS test kit through volunteer mobilization and 122 samples were tested in lab for potable parameters. Samples were taken from all 21 municipalities in Kathmandu Valley including 3 rural municipalities (Bagmati, Mahankal, and Kyonjosom);
- Three days of training on Water Safe Community was completed from April 6 to 8, 2022. The training was targeted at municipal officials involved in WASH and health. The training was attended by a total of 36 municipal officials. Out of them, 17 were male and 19 were female;
- A total of 450 water samples were collected from households in three selected communities of Mahalaxmi Municipality (Ward 9 and Ward 8) and Godawari Municipality (Ward 6). An ECC vial was used to test the water quality with the volunteer mobilization;
- Three days of training on the Water Safe community was completed. on March 23 to 25. The training was attended by members of the water user committee members of selected three communities of Godawari Municipality and Mahalaxmi Municipality;
- Sensor-based automatic chlorine dosing pump was installed in all three communities (Basuki Sikharpa) of Godawari Municipality and (Ghimirethok WSS and Mathillo Dovan WSS) of Mahalaxmi Municipality and including water source and intake improvement and protection;
- Mini Lab for water quality test was established for both Municipality. For Mahalaxmi Municipality, Mini Lab was established in Lubhoo WSS Office and for Godawari Municipality, the lab was set up in the municipality building. However, formal handover is remaining;
- Successful trial on the development of compact dry plate, a plate used for water quality test which quantifies the presence of *E. coli* in the sample water;
- As a part of CCRM, altogether 168 students were oriented on WASH and out it 30 students from 5 schools were separately oriented on CCRM. The CCRM was completed with the dissemination in ward level. The CCRM was conducted in the following 5 schools of Mahalaxmi Municipality and Godawari Municipality;

Hardware Activities		
Activity	Households	People Reached
Establishment of Minilab Municipality	33192 HHs	234955
Source and WASH improvement and Sensor based automatic chlorine Dosing pump Installation	450 HHs	2250

Software Activities		
Activity	Households	People Reached
Water quality test in Kathmandu Valley	829 HHs	4145
Training on WSC		63
Child Centered Risk Mapping		1505

Major Achievements

- Water Quality Monitoring Mechanism of Municipalities assessed and the possibility of WSC among Municipalities increased;
- Developed Capacity of municipalities and its communities through technical support on water quality testing and monitoring including solutions on safe water supply;

- Supported communities to ensure water conservation approaches in communities to achieve the status of Water Safe Communities;
- Students and teachers increased Capacity on Child Centered Risk Mapping;

Beneficiaries

Total Beneficiaries from the project



33,192
Households

2,34,955
People

4. Emergency WASH and Disaster Risk Reduction

Under the thematic program “Disaster Risk reduction”, ENPHO implemented **4 projects** with the support of UNICEF Nepal and Oxfam benefitting **7,00,000 people**.

This year, ENPHO carried out 3 projects for COVID-19 response and 1 project for Cholera response.

In order to support in the time emergency during the second wave of COVID-19, through ongoing projects ENPHO supplied essential materials required for prevention, medical supplies and organized awareness raising events virtually to enhance the knowledge among general public.



4

Projects



7,00,000

People

Emergency **COVID-19** Support- **Rapid Action Task Force Project**

Status: Completed

Project Partner:

Funded by Bill and Melinda Gates Foundation, City Wide Inclusive Sanitation Technical Assistance Hub In South c/o Dev consultants Limited and coordinated by ENPHO and Implemented by The Small Earth Nepal (SEN) and Biomedical Engineering Foundation Nepal (BEFON).

Project Area: Kathmandu and Lalitpur Metropolitan City

Project Duration: June to September 2021

Aim

- 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 centers based on the assessment conducted;
- Help to establish database and create 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 Environment and Public Health Organization (ENPHO) for implementation in partnership with two others NGOs (The Small Earth Nepal (SEN) and Biomedical Engineering Foundation Nepal (BEFON);
- This project was designed with an objective of providing COVID 19 response during the pandemic situation. The project activities led to coordinate collective expertise, capabilities, and resources to provide data-driven, real-time insights to improve COVID-19 situation in Nepal. The designed activities were to 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 Isolations Centre has been upgraded and is providing services to the people with severe and mild illness of COVID 19 virus in their communities providing services to the people with severe and mild illness of COVID 19 virus at their communities;
- Support for installation, repair, and maintenance of bio-medical equipment in 5 Community Hospitals and Isolation Centers within Kathmandu valleys;
 - a) CFC Community Hospital, Chhatrapati
 - b) Ganesh Man Singh Memorial Hospital and Research Center, Lalitpur
 - c) Ktm -17 Ward's Isolation Center
 - d) Friendship Community Hospital, Sukedhara
 - e) Radhaswami Covid Isolation and Oxygen Therapy Center
- Validated information is collected from various sources into a single platform via website. (<https://nepalrat.org/>) of C 19 RAT;



Nepal Mask: COVID-19 Response Project

Status: Completed

Project Partner:

Funded by: Bill and Melinda Gates Foundation (BMGF)

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

Implementing Partners: ENPHO and The Small Earth Nepal (SEN)

Project Duration: June to December, 2021

Project Area:

Kathmandu Metropolitan City	Kathmandu
Madhyapur Thimi Municipality	Bhaktapur
Melamchi Municipality	Sindhupalchok
Koshi Rural Municipality	Sunsari
Manthali Municipality	Ramechhap
Kamalamai Municipality	Sindhuli

Aim

- 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” was 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 has executed 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 adopted 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



Awareness campaign to sensitize and educate the general public on proper use of masks

now being adopted by various countries. In Nepal, project started from the hotspots identified based upon the COVID-19 Crisis Management Co-ordination Center (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 aimed to increase the proper use of mask and reduce the spread of COVID-19 through implementation of Social Behavior Change and Communication (SBCC) tool in most affected areas.

Project Outputs

Strategic Achievements of NORM Approach

No-cost



337,825



Mask distributed at no-cost at household level during door-to-door visit

Offering



9,017

Household of 4 district (Bhaktapur, Kathmandu, Sindhupalchowk, Sunsari) visited with offering information of proper use of mask in the form of flyer/flexes and comics

273 FCHVs and **56** volunteers mobilized in household level to have door-to-door visit in distribution of mask with a sensitization message

Reinforcement



227,175

Mask distributed various hotspots locations of 6 district (Bhaktapur, Kathmandu, Sindhupalchowk, Sunsari, Ramechhap and Sunsari). The event were frequently focused on festivals (Dashain, Tihar, Chath), hath bazar, vegetables market and temple premises

100 events reinforcement activities (including stand-up, flash mob, dramas, vehicle booth, miking) were conducted

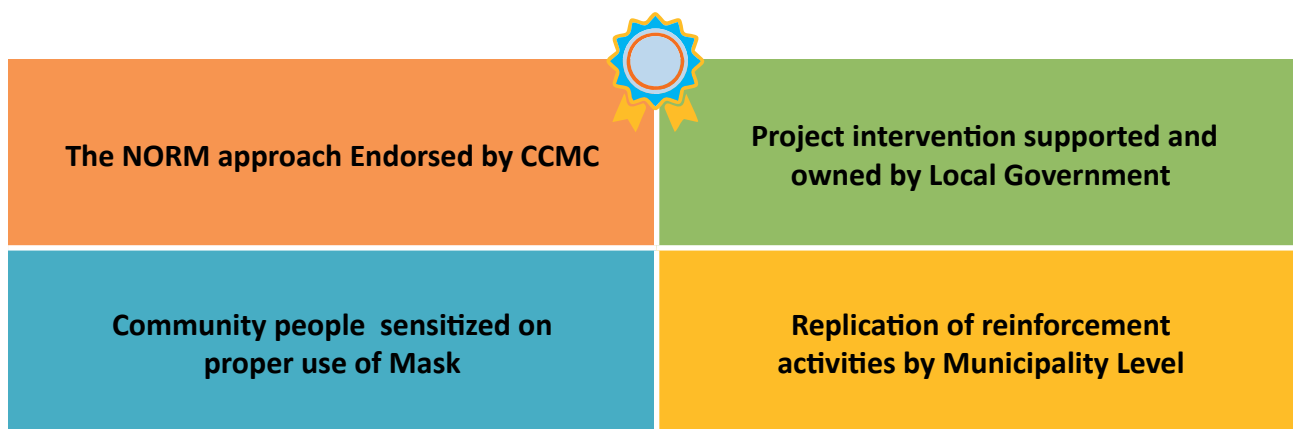
Modelling



More than 7 lakh

People reached out through video production and dissemination of **animated videos**, influencing **public figures video (Miss Nepal, political leader, author, doctor, business person, players, social activists, and sanitation worker)** and **various social leaders voices (Mayors, political leaders, NGO federation head, FEDWSUN, press council, Nepal Public Health Association)** and **radio jingles on Nepali, Maithali and Newari language** through national television, and online portals and community radio stations.

Major Achievements



Beneficiaries



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

Status: Completed

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

Project Area:

Ramechhap, Sindhuli, Ilam, Kavre, Dolakha, Mugu, Bajura, Makwanpur, Kathmandu

Project Duration: June to September 2021

Objective

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

Project Description

This project is funded by CNCA, NHCF and was led by COVID 19 Rapid Action Taskforce (C-19 RAT). With a collaborative effort of five different organizations, ENPHO on behalf of C-19 RAT was provided with responsibility of overall management for this project.



Disinfectants and masks being distributed at community

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 and hygiene kits to people affected by COVID 19 lockdown situation.

Project Outputs

Food and Hygiene Kit Distribution to families of sanitation workers & cleaners of Kathmandu		200 Families
Food Package Distribution	60 Families	Mugu
	64 Families	Chepanang
	51 Families	Bajura
Medical Resources and Oxygen Supplies Supported	10 Isolation Centres	Ramechhap, Sindhuli, Kavre, Dolakha and Ilam
Repair and Maintenance of Bio-medical Equipment	3 Primary Health Care Centres, and 1 District Hospital	Ramechhap, Illam and Sindhuli

Major Achievements

- Support to unprivileged community with food package to provide an aid to run livelihood from the food crisis the people were facing in lockdown;
- Supported sanitation workers with food and hygiene Kits to aid them to maintain hygienic and healthy life.
- 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;



Distributing medical resources and oxygen supplies to isolation centers

Enhancing Cholera Control in Nepal (ECHO- NEPAL Project)

Status: Ongoing

Project Partner: Good Neighbors International

Project Area: Kathmandu and Lalitpur District

Project Duration: July 2021 to December 2023

Aim

- The overall goal of ECHO-N project is to enhance Nepal's capacity to detect, respond and prevent outbreaks of cholera

Project Description

Nepal is among the top 5 countries vulnerable to impact sanitation. Nepal faces flooding and landslide during the rainy season every year which often leads to breakdown of WASH facilities. In addition to all these factors, limited diagnosis and surveillance reporting raise the likeliness of cholera outbreaks, which may be challenging to prevent and control. Therefore, to limit outbreaks and prevent cholera cases through strengthened Rapid Response Capacity in Nepal following activities are planned to intervene at:



District Project Advisory Committee meeting at District Administration Office, Kathmandu

Municipality level

- Essential WaSH items stockpiling
- Handwashing station maintenance/repair work

Ward level

- Epidemic prevention and preparedness training for W-WaSH-CC
- Water Users' Committee (WUC) Training
- Test and monitor water quality

Household level

- Comprehensive WaSH training for FCHVs
- FCHVs Tole education
- Essential WaSH items and chlorine distribution
- Community- and household-level educational materials distribution
- Adapt IEC materials

The project will enroll the activities after International Vaccine Institute (IVI) decides the project implementation municipality of Kathmandu and Lalitpur District

Project Outputs

Strengthened response focused on WaSH interventions

5. Research and Development

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

Status: Completed

Project Partner: JICA Nepal

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

Project Duration: November 2019 to November 2021

Aim

The main aim of the project is to support water quality management and improve service delivery with a focus on operation and maintenance of the water supply facilities and sanitation.

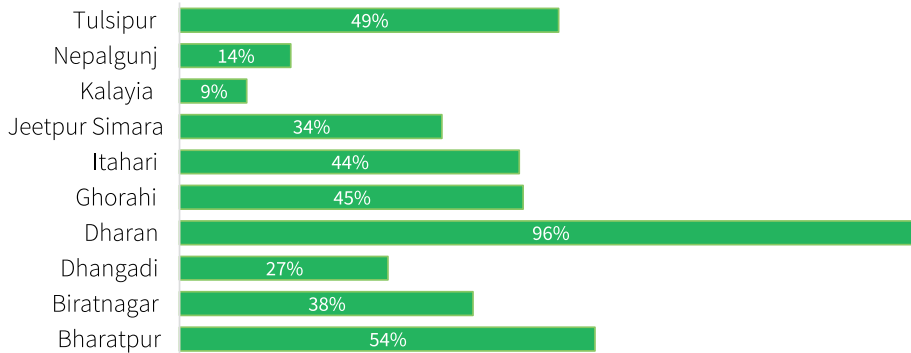
Project Description

The overall objective of Data Collection Survey was to review/update the current situation of water supply and wastewater management in major urban cities and explore feasible investment as well as improvement plan that can be considered by development partners.

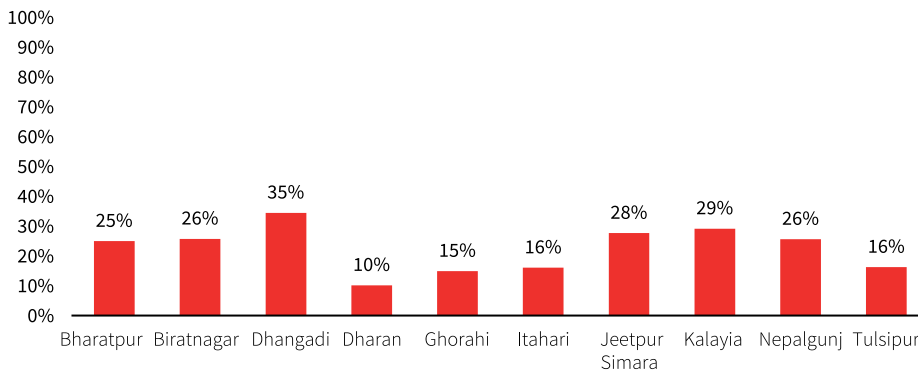
Project Outputs

Key Finding

Piped Drinking Water Coverage in Cities



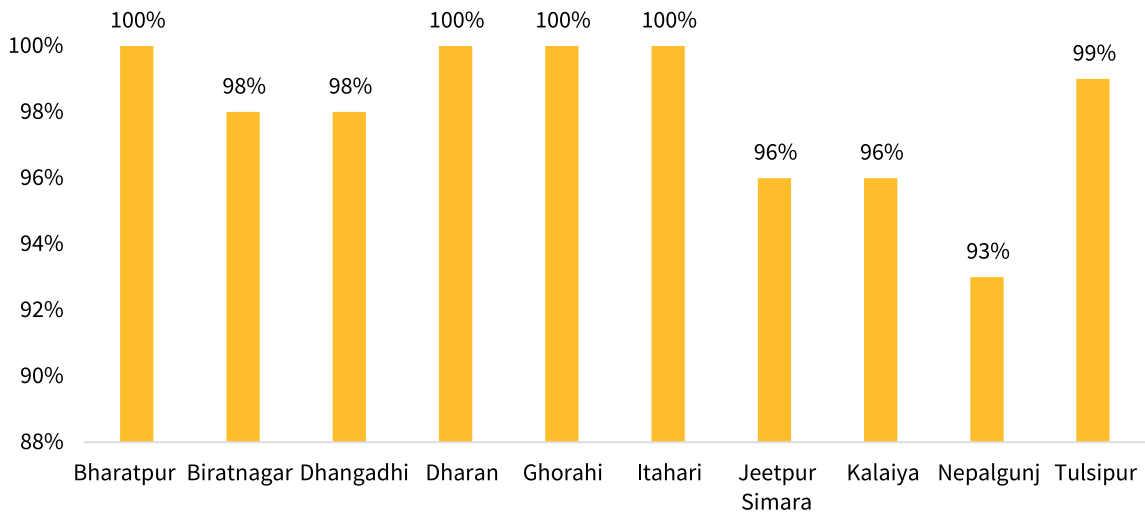
Non-revenue Water

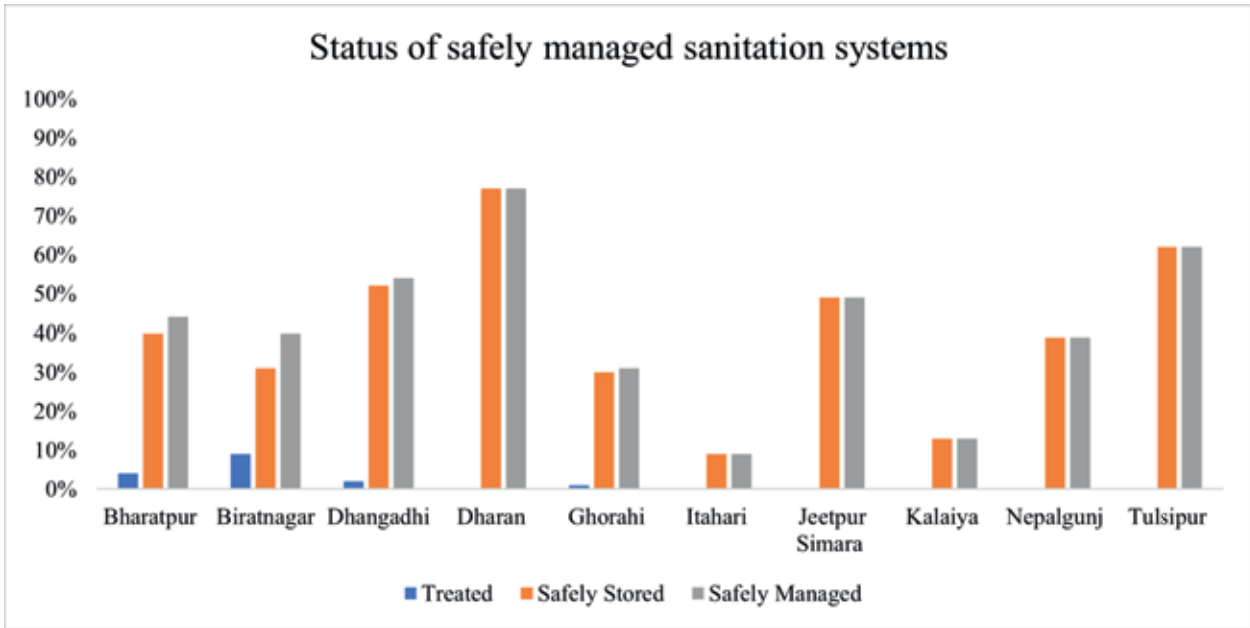


Water Quality Analysis Report

Parameters	Non-compliance Samples	
	Deep Tube Well	Shallow Tube Well
Total Coliform	61% (20)	82% (14)
E.Coli	30% (10)	59% (10)

Sanitation Coverage





Published Situational Report of water supply and sanitation in each city.

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

Status: Completed

Project Partner: PATH

Project Area: Kathmandu Valley and Dhulikhel, Kavrepalanchowk

Project Duration: January 2021 to May 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 conduct gene sequencing of identified variant of SARS-CoV-2, find the correlation between the presence of SARS-CoV-2 in environmental samples and spreading of the COVID-19 in communities. Also, cost analysis of environmental surveillance will be done.

Project Description

PATH funded project, WESCAN, has the following objectives-

- To collect environmental samples from untreated and treated sewage, faecal 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.
- To conduct gene sequencing of SARS-CoV-2 RNA identified from wastewater
- To conduct cost and cost-effective analysis of ES



Dissemination of WESCAN Research Findings

Project Outputs

- Wastewater sampling, lab works and analysis have been successfully completed from twenty three sampling outlets. Sequencing work has also been completed;
- Costing analysis has been concluded with a research article (manuscript has been submitted);
- Supported to establish well equipped laboratory for SRS-CoV-2 detection at Microbiology department in Tribhuvan University;

Project Achievement

- SARS-CoV-2 has identified and sequenced from wastewater and fecal sludge samples;
- Costing for ES has been analyzed inferring ES as complimentary to medical testing;
- Research article has been submitted to scientific publishers for publication;

Faecal Sludge Characterization Study in Kathmandu Valley

Status: Completed

Project Partner: DOHWA ENGINEERING CO. LTD.

Project Area: Kathmandu Valley

Project Duration: August 2021 to May 2021

Aim

The study was focused on finding and obtaining the characteristics of FS at various stages such as raw and thickened FS, supernatant of settled FS and effluent of FS from sludge drying bed to contribute the proper design of FSTP in Nepal.

Project Description

A field experimental setup was installed in the premises of Lubhu Faecal Sludge Treatment Plant. The experimental setup consists of the installation of a 500-litre tank to settle the raw faecal sludge transported by a desludging tank.

The samples were collected from the faecal sludge emptied and transported into the experimental setup from different locations of the Kathmandu Valley.

FS samples from raw and thickened faecal sludge, supernatant of settled faecal sludge and effluent from experimental SDB was collected and analyzed. All together 80 samples were collected and analyzed.



Faecal sludge from desludging vehicle being delivered to the experimental thickening tank

Project Outputs

Published report on characterization of faecal sludge

Project Finding

A detail FS characteristic of 80 samples at different stages of FS as summarized below:

- Total solids in raw faecal sludge increased with sludge accumulated years.
- Reduction of suspended solids through gravitational settling process is depends upon the TS content in the raw faecal sludge. In relation to median the range of reduction is between 70% and 90%.
- The removal efficiency of TSS through sludge drying bed was 94% with respect to raw faecal sludge.
- The concentration of VS in the raw faecal sludge ranges between 15% and 88%.
- The average BOD of faecal sludge was 1,478 mg/l. Upon removing the BOD of diluted FS, the average BOD is 1893 mg/l. While the BOD of thickened faecal sludge is 2,800 mg/l removing value of diluted sludge samples.
- The average reduction of BOD through gravitational settling was 54%.
- The average removal efficiency of BOD by SDB was 84% .
- The average COD in raw faecal sludge is 23,031 mg/l. The gravitational settling reduced COD by 47.5% in the supernatant. The removal efficiency from the SDB is 93% but the average COD is 1593 mg/l which is unsafe for discharging into environment.

6. WASH and Nutrition

Suaahara II

Status: Ongoing

Project Partner: USAID/HKI

Project Area:

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

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

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

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

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

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

Project Duration: May 2016 to September 2022

Aim

- To improve nutritional status of women and children in Nepal

Project Description

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

In this fiscal year, the program particularly focused on the continuation of activities carried out in the fifth year. Some of the major activities carried out this year were; to provide technical assistance and support health facilities to improve WASH standards and facilities in the health centers; provide follow-up support to health facilities intervened in the previous year, and promote two key priority behaviors; water treatment and hand washing through its frontline workers and social media platforms, provided skill enhancement support to health workers and FCHVs on counseling regarding WASH behaviors to 1000-days household members, shared the findings of year-five on WASH in health facilities assessment to the provincial, district and municipal government, and collaborate with private sectors actors to scale up the establishment of WASH marts to improve access of affordable WASH products in remote areas and provide technical assistance to local GoN bodies to attained healthy home status contributing to total sanitation movement in Nepal. Additionally, Suaahara II has also implemented an infection prevention and control program in health facilities and schools so as to ensure safety measures are taken in day-to-day operations in the context of COVID-19.



Health worker counseling to 1000 days' mother during HP visit at Amalachaur HP

Project Outputs

- Provided technical support visits and also conducted workshops to 129 health facilities of 31 districts reaching 1,667 Health Facility Operation and Maintenance Committee (HFOMC) members to improve WASH facilities and services including counseling on WASH behaviors to 1000-day households during different health platforms and contact points.
- Provided follow-up support visits and shared the findings of WASH in Health Facilities assessments to HFOMCs of 315 health facilities intervened in year 5 to improve WASH facilities and services. The key improvement observed during follow-up visits were; providing counseling on WASH by health workers, installation of water filters for drinking, maintaining the cleanliness of toilets, and availability of soap and water at hand washing stations.
- The findings of WASH in Health Facilities assessment were shared to the provincial governments of 5 provinces (Bagmati, Gandaki, Lumbini, Karnali and Sudur Pashchhim) particularly to WASH and Health sector stakeholders through 8 sharing events.
- Continued advocacy to scale up and replicate total sanitation campaigns to improve handwashing, water treatment, and other nutrition-sensitive WASH behaviors through participation in 575 WASH CC meetings, and by organizing 84 advocacy events.
- 17,858 FCHVs of 42 districts were visited by MNFs/ CNFs and provided coaching on providing effective WASH counseling to first 1000-days households.
- 81 municipality-led community events were participated by MNFs and CNFs to discuss and promote ideal WASH behaviors.
- Provided follow up support to 162 previously trained tailors to prepare quality reusable sanitary pads, branding and social marketing.

- Supported 33 bio-sand filter entrepreneurs on social marketing, expanding services and increasing accessibility of bio-sand filters in 8 districts (Banke, Bardiya, Dang, Kailali, Kanchanpur, Kapilvastu, Nawalparasi-West, and Rupandehi)
- Promoted WASH behaviors particularly hand washing and water treatment through integrated nutrition home visits in 1,77,859 households and 25,479 FCHV-led HMG meetings.
- Infection prevention and control program
- Provided training to about 739 health professionals of 50 health facilities on infection prevention and control to manage and maintain compliance on infection prevention and control particularly relating to COVID-19. Further, handwashing stations were installed in 44, bio-sand filter in 50 and 3-colored waste bins were placed in 47 of these 50 health facilities.
- Provided training to about 373 school authorities through 16 training events in 8 Terai districts on public health safety measures for re-opening and safe operation of schools for infection prevention including COVID-19.

Major Achievements

51 new WASH marts established to increase excess of affordable WASH materials

4 wards of 3 districts (Ward no 6, Rurukshetra RM, Gulmi; Ward 3&7, Bhume RM, Rukum East and Ward no 6, Badigad RM, Baglung district) declared as total sanitation oriented healthy home wards



Total Beneficiaries from the project

1,82,888

People

7. Capacity Building on WASH

This year, ENPHO conducted **2 projects** under this theme, benefitting **1,650 people**. This thematic program aims to build the local capacities on WASH.

Green Rooftop Farming project aimed to promote innovative ways of urban agriculture at Madhyapur Thimi through capacity building of city dwellers for the improvement in access to safe drinking water and sanitation facilities.

The project Citywide Inclusive Sanitation Scaling and Sanitation Innovation is being implemented to build the capacities of relevant stakeholders to propagate the Citywide Inclusive Sanitation (CWIS) approach at the local level and support them in creating an enabling environment for the implementation of CWIS thereby improving public health.



Green Rooftop Farming

Project- Madhyapur

Status: Completed

Project Partner:

Funded by: UN Habitat

Project Partner: ENPHO, Madhyapur Thimi Municipality, Sagini women's Saccos, Dakhinkali women's Saccos

Project Area: Ward no 1 and 3, Madhyapur thimi Municipality, Bhaktapur District

Project Duration: January 2021 – February 2022

Aim

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 basic urban services and local food security. Rooftop Farming (RTF) offer an alternative growing space to provide fresh vegetable produce for city dwellers along with reuse opportunity of organic waste in productive way. Thus from few years, RTF is getting popular among the city dwellers. On top of that, lockdown is driving city dwellers to grow their own fruit and vegetables at their homes. However, they lack technical knowledge and effective/ innovative techniques to enhance the rooftop farming practice. These days, local municipalities are also interested in promoting urban agriculture including Roof Top Farming.

Madhyapur Thimi, one of the municipalities within Kathmandu Valley, is very much committed to this endeavor. Though this project ENPHO aims to promote innovative ways of urban agriculture at Madhyapur Thimi 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.



Resident of Thimi practicing Rooftop Farming at her home

Project Outputs

- Conducted baseline survey at 96 HHs;
- Altogether 100 Households were selected for implementation of the project;
- Regular technical support for rooftop farming by a field technician at household level;
- Installed household level rainwater and greywater recycling tanks at selected households;
- Conducted composting practices assessment of 50 households;
- Oriented 35 HHs on water conservation technologies at the household level;
- Provided monitoring and technical support for proper use of water conservation technology to participating households;
- Trained 100 households in rainwater harvesting and greywater recycling;
- Trained 100 households in organic waste composting;
- Conducted orientation on the hydroponic system (innovative technologies and techniques) in RTF for 28 HHs;
- Installed 8 innovative technologies: 6 hydroponic systems at HHs and 1 municipality building and 1 at School;
- Developed and launched of Roof Top Farming Trainer's Manual;
- Published of Roof Top Farming Brochures;
- Published learning and case studies related to Rooftop farming via WASH Khabar, online newspaper, social media, YouTube;
- One-day Roof Top Farming Mela / Exhibition organized with more than 2000 visitors;

**Trained on
Rooftop Farming**

**100
Households
Physically**

**25
Households
Virtually**



Training on Rooftop Farming being organized at Thimi

Major Achievements

Communities are encouraged to promote RTF in their houses in the municipality.

Rainwater harvesting, grey water recycling and organic waste composting are initiated in urban households

Urban households start RTF and productive reuse of organic waste.

Operated innovative techniques and technologies

Municipality gain expertise, become demonstration site of RTF and waste recycling

Beneficiaries



Total Beneficiaries from the project

100

Households

Citywide Inclusive Sanitation Scaling and Sanitation Innovation

Status: Ongoing

Project Partner: International Training Network - Bangladesh University of Engineering & Technology (ITN-BUET)

Project Area: 7 provinces of Nepal

Project Duration: November 2021 to December 2025

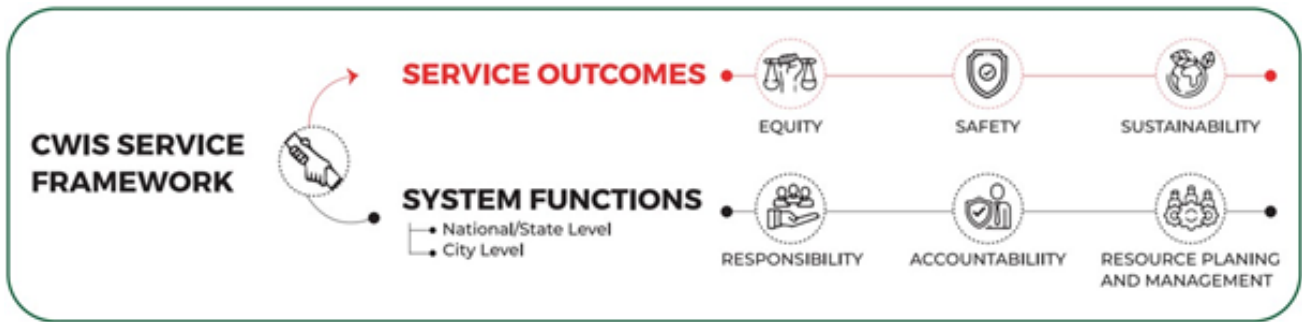
Aim

Catalyze achieving Sustainable Development Goal 6.2 outcomes to ensure safe, adequate, equitable, and sustainable sanitation for all with a special focus on marginalized communities, gender, women, girls, and children.

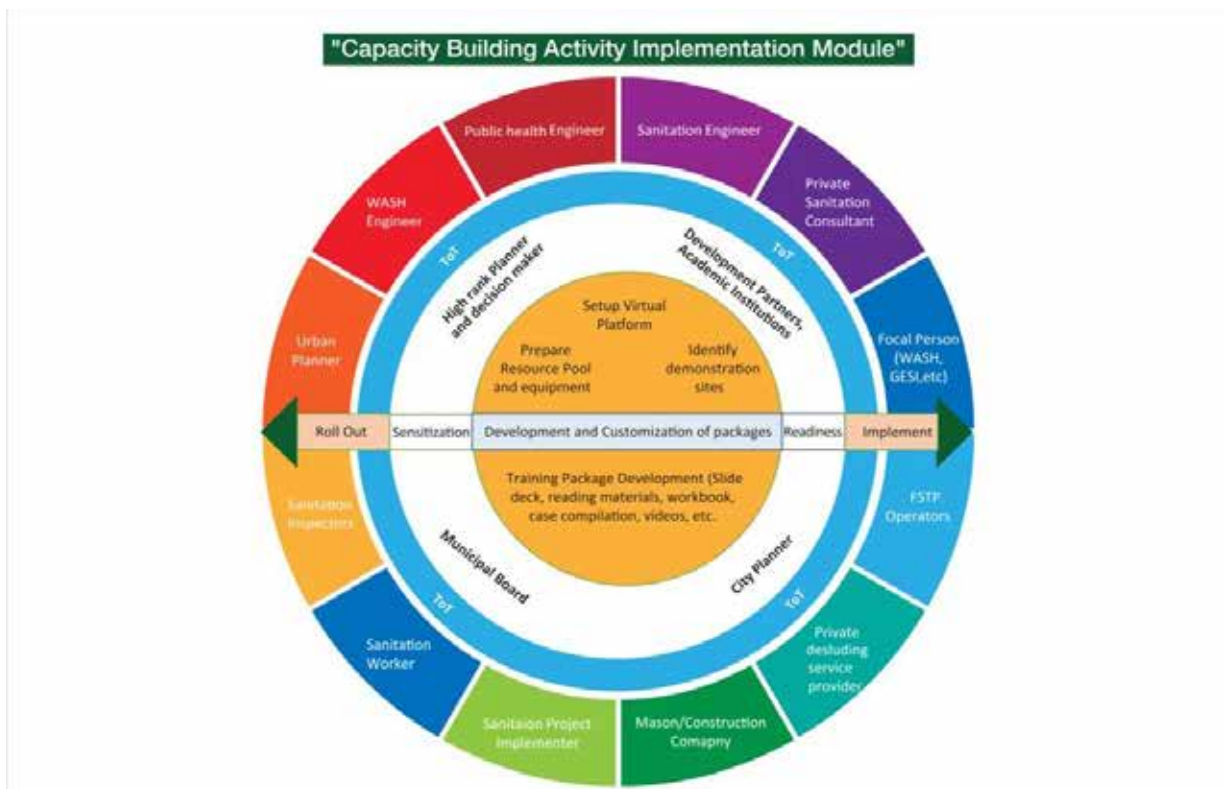
Project Description

Environment and Public Health Organization (ENPHO), with the support of the Bill and Melinda Gates Foundation (BMGF) and in partnership with International Training Network -Bangladesh University of Engineering & Technology (ITN-BUET), is implementing the project “Citywide Inclusive Sanitation Scaling and Sanitation Innovation” in Nepal. With around 89.5 percent of Nepalese population relying on non-sewered sanitation services (MICS 2019), the proper management of fecal sludge remains a challenge for achieving the Sustainable Development Goal (SDG) 6 target, ensuring safe sanitation for all, considering a full sanitation service chain. To meet the SDG 6.2 targets, skilled human resources in every aspect of FSM require significant attention. Thus, the project aims to build the capacities of relevant stakeholders to propagate the Citywide Inclusive Sanitation (CWIS) approach at the local level and support them in creating an enabling environment for the implementation of CWIS thereby improving public health.

Citywide Inclusive Sanitation (CWIS), a new and emerging approach in the sector of sanitation, is a concept to identify key sanitation challenges and mitigate them effectively to ensure safe sanitation for the growing urban areas in the world. Furthermore, the approach helps in identifying the best possible sanitation solutions for sustaining different initiatives. It focuses on providing access to and benefits from adequate and sustainable sanitation services along the entire sanitation service chain for protecting public health.



The capacity building activities will be executed through CWIS FSM Capacity Building Platform (a common platform under Citywide Inclusive Sanitation Association Nepal- CWISAN) for the collecting effort and maximizing available resources maintaining standard through out the country and in the region.



Project Outputs

- Initiation to establish CWIS FSM Capacity Building Platform engaging multiple sector partners and key stakeholders under CWISAN to execute capacity building activities in the country and region.
- Coordination with NATS Lab, Thailand to receive technical support to establish a dedicated fecal sludge and wastewater testing lab unit within ENPHO Lab and operate it with quality control requirement for fecal sludge analysis method based on ISO17025:2017 standard.
- Started physical infrastructure improvement work, purchasing of required equipment and preparation of concept note with service protocol.
- Signed MoU with organizations for coordination and collaboration to develop and utilized capacity building materials.

- Identified initial 12 different training packages to be developed to meet sector need and drafted two training packages applying training package development process; content drafting, training package drafting, review developed package and finalization.
- Delivered 27 events of sensitization orientation to municipal board to encourage to apply CWIS approach in sanitation projects planning and implementation.
- Conducted learning visit in India by the project team and coordinating Indian organization ASCI to send first round of learning visit team for cross learning and CWIS implementation.
- Drafted concept note and agenda for regional learning and sharing workshop on CWIS considering 40 international delegates and 40 national practitioners.



Delivering orientation on CWIS

CWIS Sensitization Orientation	27 municipalities and development agency	1,080 members of newly municipal board
Training on CWIS/ FSM	22 municipalities and 6 development partners	64 government and non-governmental Officials
Learning and Sharing visit	CWIS implementing organizations	6 Officials

Project Achievement

- Establishment of CWIS FSM Capacity Building platform to execute different capacity building activities through country engaging key stakeholders for collective effort to maximize the result.
- Extended relationship with national and international organization (NFSSM, Dasra, ASCI, IIHS, NIUA, ITN BUET, etc.) to foster knowledge sharing and cross learning while developing and implementing capacity building activities on CWIS FSM

Beneficiaries



Total Beneficiaries from the project

1,150
People

8. Advocacy on WASH

ENPHO this year carried out **3 projects** to promote equitable distribution of WASH services and seeks meaningful participation of poor, women, and the disadvantaged in WASH-related decision.

Under the FANSA Interim Plan of Action Project, ENPHO worked to advocate for the WASH issues in local and national as well as at regional level and to enhance the capacity of LNOB's and CBO's on WASH.

Under the SWA Catalytic Fund project, ENPHO published two video cases related to the issues of solid waste collector and fecal sludge desludgers supported to raise awareness on issues being faced sanitation workers in community level.

Amplifying community voices to influence the process and outcome of SACOSAN VIII Project was implemented to advocate for and address the WASH agenda at regional, national and local level.



3
Projects



550
People

SWA Catalytic Fund

Status: Completed

Project Partner:

Funded by: FANSA

Implementing Partners: ENPHO and Rural Awareness and Development Organization (RADO)

Project Area: Nation wide

Project Duration: January to March, 2022

Aim

- To Advocate for WASH related issues at national level

Project Description

SWA funded the project activities to advocate the WASH issues at municipality, province and national level.



Multi stakeholders meeting being organized to discussion on SWA commitment

Project Outputs

22 individuals were awared on SWA objective, strategic framework and detail roadmap

Two video cases related on the issues of solid waste collector and fecal sludge desludgers were developed and were use as advocacy tool to sensitize the stakeholders

National Level Stakeholder Meeting was conducted to advocate for sustained political will to ensure leave no one behind in WASH with 17 participants from Government, CSOs, research and learning institutions, and media person.

Major Achievements

- Two video cases on the issues of solid waste collector and fecal sludge desludgers supported to raise awareness on issues being faced sanitation workers in community level.

FANSA Interim Plan of Action Project

Status: Completed

Project Partner:

Funded by: FANSA

In coordination with: ENPHO

Implementing Partners: FEDWASUN and Community Women Forum (CWF)

Project Area: Nationwide

Project Duration: January to March, 2022

Aim

To advocate for the WASH issues in local and national as well as at regional level

To enhance the capacity of LNOB's and CBO's on WASH

Project Description

Freshwater Action Network South Asia Nepal Chapter (FANSA) is the national civil society network which works towards implementing and influencing water and sanitation policies and practice. The network aims to improve water and sanitation management by strengthening (grassroots) civil societies to influence decision-making. Altogether 23 organizations are within this network with the same purpose in Nepal. FANSA's secretarial is in ENPHO at Nepal so ENPHO coordinate for implementing the projects among other partners in Nepal.

“Interim plan of action project” was funded by UNICEF and Water Aid and implemented FEDWASUN and Community Women Forum(CWF) and coordinated by ENPHO. The major objective of the project was to strengthen and capacity building to the Leave No One Behind (LNOB) communities to collect the local level WASH issues among LNOBs group, to advocacy LNOB community issues and needs to local and national level.



Orientation on Safe Water for slum community of Thapali Kathmandu Nepal

Project Outputs

83 LNOBs' representatives capacitated on WASH and COVID 19

National workshop to discuss on the issues of sanitation workers was organized with participation of 54 stakeholders

Submitted the petition on WASH related issues to Kathmandu Municipality, Thakray Rural Municipality and Kalimati Fruits and Vegetable Market Development Board to address the issues by vegetable wholesaler representatives

National webinars to review achievements of 7th SACOSAN commitments was organized with participation of 22 stakeholders

4 meetings with steering committee and national members were conducted to discussed the WASH issues found in the field and to make the common agenda for advocacy

Major Achievements

- Empowered and enabled the excluded / vulnerable communities to demand WASH services;
- Strengthened FANSA network functioning and governance and developing long term strategy for CSOs engagement;

Beneficiaries



Total Beneficiaries

159

Amplifying Community Voices to Influence the Process and Outcome of SACOSAN VIII

Status: Completed

Project Partner:

Funded by: FANSA

Implementing Partners: ENPHO ,FEDWASUN, LUMANTI, CWF and RADO

Project Area: Bagmati Pradesh and Province 1

Project Duration: January to May, 2022

Aim

- To Advocate the WASH Agenda

Project Description

Amplifying community voices to influence the process and outcome of SACOSAN VIII Project was implemented with the support of New Venture Fund to increase the accountability of the National Governments by enabling the capacities of CSOs and community leaders and to address sanitation and hygiene issues of the marginalized communities. This project was implemented for advocating the WASH agenda and address the WASH agenda at regional, national and local level.

ENPHO representing itself as National Convener of Nepal, coordinated and collaborated with others FANSA members of Nepal to implement this project of FANSA Nepal.



Community Interface

Project Outputs

89 peoples were capacitated and made able to raise their voice for their WASH related rights through three different dialogues events

Assessment report on SACONS VII commitments implementation and WASH status at grassroots level prepared

166 national, province, and municipality level decision and policy makers sensitized through policy influencing meetings

91 individuals were capacitated through three different training events and were enabled to engage with governments strategy for bridging the gap between policy and practice.

Media mobilization was done to advocate for the WASH issues

Major Achievements

- Assessment report on SACONS VII commitments implementation and WASH status at grassroots level was prepared to further support policymakers to reflect the ground WASH issues and address the gaps.
- Frequent meeting/interaction at local and province government will support to address WASH agenda in the plan and policies.

Beneficiaries



Total Beneficiaries

346

9. Air Quality

ENPHO has been working in the field of air pollution since 1993 and over the years, ENPHO has collaborated with Government of Nepal, USAID, Danish Government, Swiss Development Cooperation, and private companies in the field of air pollution. ENPHO was one of the first organization to operate government's six air quality monitoring station in Kathmandu Valley.

In term of research and development ENPHO have conducted various research related to air pollution. Few of the studies include

- 1 Study on Health Impacts of Kathmandu's air pollution for USAID KEVA
- 2 Research on performance of improved cook stoves –longitudinal study in three districts for AEPC
- 3 Monitoring of emissions from brick kilns.

As a result ENPHO received a **“Partnership for Clean Indoor Air (PCIA)”** Award in 2009.

This year, USAID's Swachhha Hawa project comes at an opportunity to improve air quality in the Kathmandu Valley approaching national ambient air quality standards leading to improved health and educational outcomes. Thus, under this project, ENPHO will work in increasing the knowledge, capacity. engagement and investment to improve the air quality of Kathmandu valley.



1
Projects



115
People

USAID Clean Air

Status: Ongoing

Consortium Partner: FHI360, Asian Institute of Technology (AIT), Environment and Public Health Organization (ENPHO), Energy Policy Institute at the University of Chicago (EPIC) and One to Watch (OTW)

Geographical Area: Kathmandu Valley (18 municipalities) with focus on five municipalities in first year (Changunarayan Municipality, Kathmandu Municipality, Lalitpur Municipality and two other Municipalities yet to be identified)

Duration: February 2022 to August 2026

Aim

To achieve the USAID Clean Air of improving air quality in the Kathmandu Valley to approach national ambient air quality standards leading to improved health and education outcomes requires a multisectoral response in which policymakers, planners and citizens need improved air quality literacy, capacity and political will to implement established policies and guidance essential to address air pollution in Kathmandu Valley. To achieve this goal, USAID Clean Air has the following three objectives:

- Improve Government of Nepal (GoN) capacity at all levels and willingness to drive evidence-based policy formulation, enforcement and implementation that influences air quality.
- Improve civil society and citizen engagement and knowledge on air pollution issues to advance public interest and GoN and private sector accountability for improving air quality.
- Enhance private sector involvement and investment in addressing the air pollution issues.

Activity Description

Air quality in Nepal is a public health crisis, particularly in Kathmandu Valley. World Health Organization's (WHO) data indicate that the annual mean concentration of particulate matter in Kathmandu valley is ten times higher than WHO's health guideline. Air pollution sources, primarily driven by transportation emission, waste burning, road and construction dust, industries particularly brick kilns, and crop clearing are known and measurable. Data from Nepal suggest that the public health impact from air pollution is substantial, including increased rates of lung cancer and chronic respiratory illness. The State of Global Air 2020 estimates that air pollution resulted in 42,100 deaths in Nepal in 2019 greater than the 2015 earthquake.

USAID Clean Air comes as an opportunity to improve air quality in the Kathmandu Valley approaching national ambient air quality standards leading to improved health and educational outcomes.

- To meet the above-mentioned objective, the Activity will follow the following discrete thematic services:

Environment and Public Health Organization



Delivering Journalist training on Air Pollution

- Social Change: stimulate social change on air quality and air pollution through civil society mobilization and advocacy.
- Capacity Building for GoN and CSO: strengthen capacity of the local governments and civil society organizations to improve governance and accountability to take necessary mitigation measures to control air pollution and improve public health
- Data Collection and Analysis: analyze and translate air quality monitoring data into a meaningful document which is accessible and informative to general public and useful for the policy makers.



Beneficiaries



Total Beneficiaries from the project

115
People

10. Knowledge Management

ENPHO Training Centre

Introduction

ENPHO Training Center is delivering different capacity building activities to client organizations level including ENPHO itself from the time of establishment aiming to enhance knowledge and skill on Water, Sanitation and Hygiene along with environmental sanitation. Moreover, training center approaching international level training events jointly with other capacity building service provide like Centre for Affordable Water and Sanitation Technology (CAWST), German Toilet Organization (GTO), International Training Network (ITN), etc. The Training Centre team has been resized into smaller team of 4 dedicated staff considering the demand received from client organization and specific projects related to capacity building within in the organization.



Conducting training on CWIS

Training center is offering major five services; training need assessment, training package development, training delivery, post training follows up support and learning exchange for practitioner, but the last year was more focused on training module development and effective training delivery as received more demand for it.



Key Activities

The key activities performed ENPHO Training Center in the year of FY 2078/79 are as follows.

1. Training module/Package development

Training package/module development through A-D-D-I-E model which is a rigorous and systemic process. Training center has developed 7 new training packages internal and external projects.

SN	Topic	Type	Duration
1	Surface Cleaning and Disinfection for Health Care Facility	Developed	1 days
2	Surface Cleaning and Disinfection for School	Developed	2 days
3	Roof Top Farming	Updated	3 days
4	Water Safe Community	Developed	3 days
5	Community Health Promotion Full fledge (updated)	Updated	5+2 days
6	Effective Power Point development	Developed	1 day
7	New variant: Omicron	Developed	2 hrs.

Different training materials were developed to ease the training delivery and some of them were Survival of Corona, 9 Indicator of Water Safe Community, 3 Star Flex for School, School Cleanliness monitoring check list, etc.

2. Effective Training Delivery

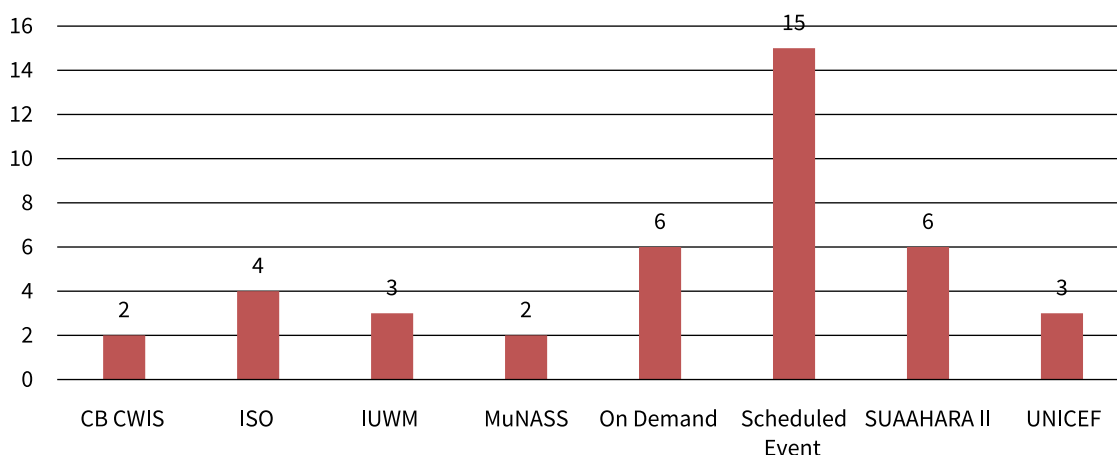
i. Internal project

Delivering capacity building events to the internal project of the ENPHO is one of the key activities of the training center. Within this FY, 20 training events were successfully delivered through six internal ongoing projects.

ii. Schedule training events

The training events planned and announced in the official website and Facebook page is known as scheduled training events. The cost recovery model is applied to continuous service and participant must pay participation fee to attend the training. Within this FY, 15 events of scheduled training event were delivered and 11 of them were through online platform.

Number of Events Delivered



iii. On-demand training event

The training events developed and delivered based on demand received from other WASH implementing client organization are on-demand training events. Within in this FY, 6 events of training delivered to WASH implementing client organization.

3. Post training follow up support

Training Centre is also continuing providing post training support to the clients who has received services in previous years. Five events of post training consulting support activities including 2 in person are conducted to the client like BIFEAN, Shanti Nepal, etc.

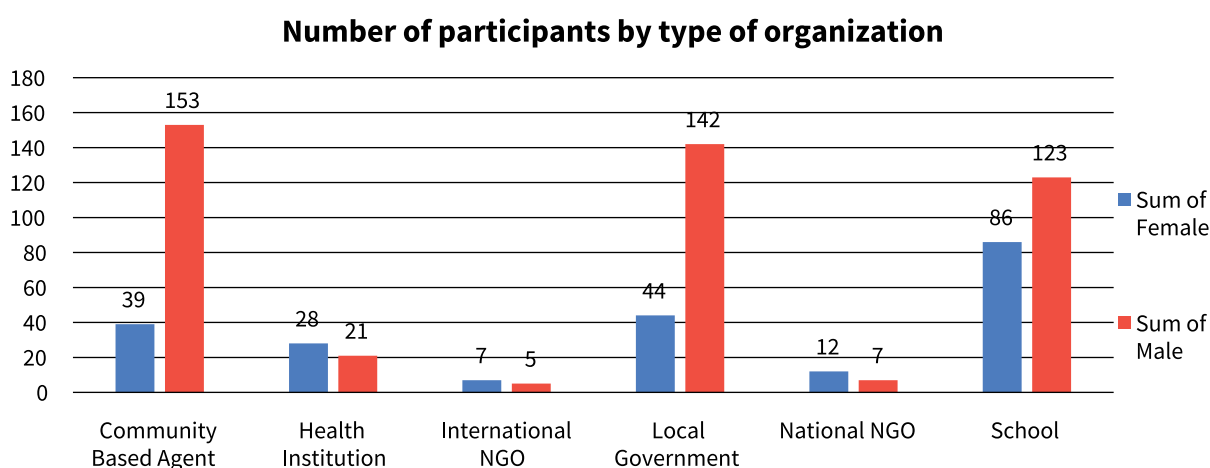
With the support of CAWST, Training Center have started the providing online technical support using official intercom system of CAWST. This is way to provide technical support to client organization responding queries and concern posted on Interactive platform developed on CAWST website. This will be continuing in coming days.

4. Learning Exchange

A short online sharing event was conducted jointly with Africa Manzi Center (AFMAC), Zambia and WASH Skill Development Centre (WASH SDC) Cambodia focusing on online events conducted by ENPHO Training Center and training materials developed for online session delivery. It was well appreciated by both organization and received request to technical assistance for their organization.

Beneficiaries

Altogether, 667 WASH professionals (216 female and 451 male) from more 105 organizations (Government, NGOs, INGOs, municipalities, and CBOs) were directly benefited from the activities conducted by ENHPO Training Center.



Major Achievement

- According to the annual survey conducted by CAWST for Nepal chapter, 73.2% of clients who has received the capacity building support from ENPHO Training Center implementing WASH project directly in the community level. In addition, 66.7% clients reported that the services supported them to improve the quality of the program they are implementing.

- Started client handling service using intercom ([www://www.intercom.com](http://www.intercom.com)) platform provided by CAWST to address the queries and concerns received from WASH implementing client organizations from Nepal, Bangladesh, and Cambodia.
- Generated NPR 12,16,642/- revenue as technical charge for providing technical support (training package development, training delivery and post training follow up support) to client organizations.

Resource Centre

The Resource Centre unit collects, stores and disseminates information and uses them to conduct education and promotional program 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, A dedicated #webpage for Citywide Inclusive Sanitation (CWIS)/ Faecal Sludge Management (FSM) has been developed by ENPHO. This page aims to share and disseminate CWIS/FSM related information to relevant stakeholders and general public.

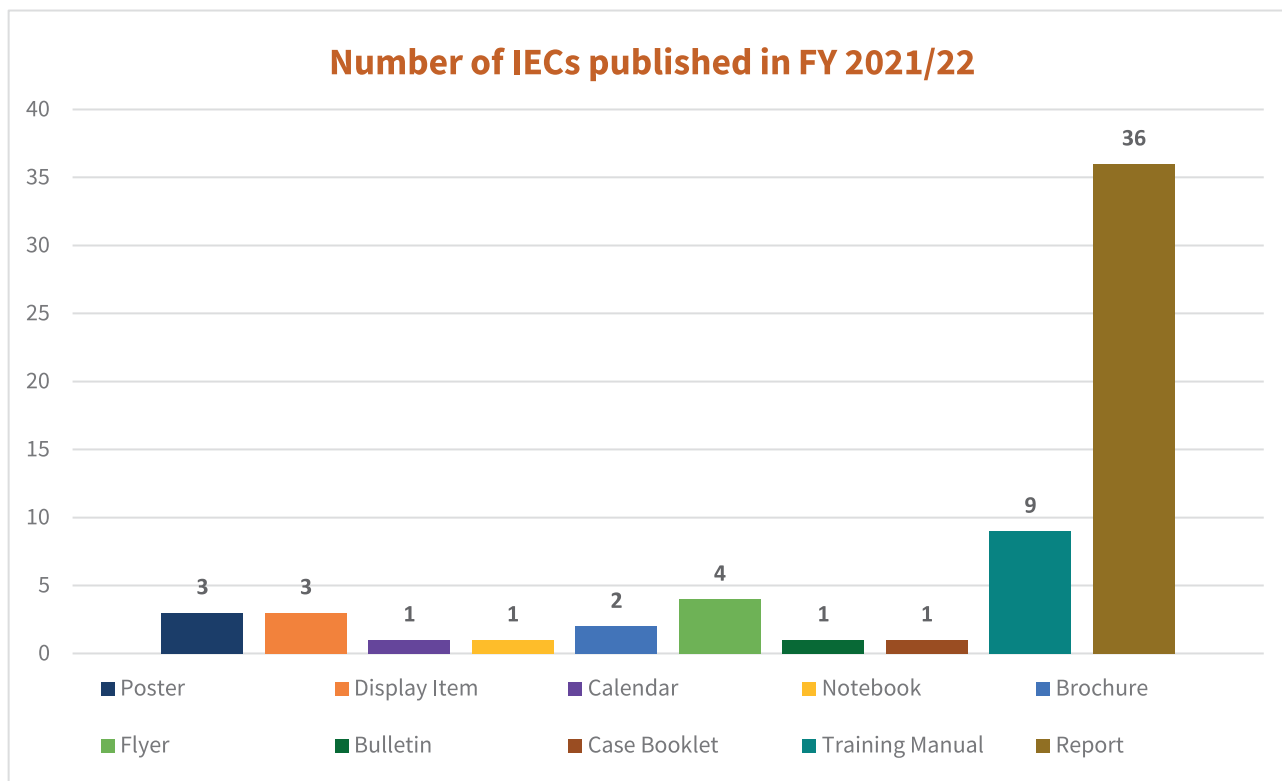
Please kindly find the link to the page: <https://cwis-fsm.enpho.org/>



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, and 'Anjuli' 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. This year, Trainer Manual on Rooftop Farming was published under the Green RTF project. 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.



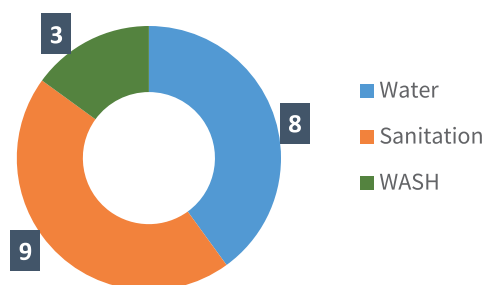
Altogether, **61 publications and IEC materials** have been published in the FY 2021/22

Video Production

This year, ENPHO developed 20 videos related to WASH which were released through ENPHO's official YouTube channel. These videos were also disseminated through other social media platforms to raise awareness on WASH.

Refer [Annex III](#) for the glimpses of publications published in the FY 2021/22.

Number of Videos published in FY 2021/22



ENPHO in Digital Platform

Digital media uses social networking platforms like Facebook, Twitter, Instagram, LinkedIn, and YouTube/Google+ among other social networks. Social media is one of the modern communication tools that have recently proven to be powerful in influencing both informal and formal communication.

ENPHO Facebook page has been sharing 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 introduced itself through new social media platforms like, LinkedIn, Instagram and Twitter. 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.



ENPHO also has its own Youtube channel (<https://www.youtube.com/channel/UCdp-40Sd4yoJ35jaCPexFCw>) through which various videos and documentaries related to WASH and ENPHO’s projects are being disseminated. During pandemic, as lot of enumerator asked for the distance support, thus we created the video documentaries and posted in YouTube. Right now we have more than 385 subscribers in our channel.

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:

- Coordinating organizations of NGO Forum for Kathmandu Valley Water Supply and Sanitation
- International Water Association (IWA) Nepal Chapter - Ad Hoc Committee Member
- International Training Program in Sustainable Urban Water and Sanitation Integrated Processes - Member
- Technical committee member for Drinking Water Quality and lab issues for NBSM
- Network member in Resource Center Network Nepal (RCNN)
- Member of WASH cluster
- Member Sustainable Sanitation Alliance (SuSanA)
- Member of Citywide Inclusive Sanitation Alliance Nepal (CWISAN)
- National Conveyer to coordinate with FANSA members for Nepal
- Member of Citywide Inclusive Sanitation Technical Working Group (CWIS-TWG)

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.



Disseminating result of Water Quality Testing at the Booth Campaign

ENPHO Paschim Paaila

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

In this FY 2021/22, Paschim Paaila was involved in different advocacy campaigns, day celebrations, awareness campaigns, networking and partnerships, and other new ventures.

Day Celebrations

Paschim Paaila, with the support from ENPHO and other various organizations, celebrated Global Handwashing Day 2021, World Toilet Day 2021, World Water Day 2022, Menstrual Hygiene Day 2022, National Sanitation Week and World Environment Day 2022 and International Youth Day 2022.

Global Handwashing Day (October 15, 2021)

The social media campaign was held through social media where the theme “Our future is at hand-Lets Move forward together” was celebrated.



Objectives

To promote handwashing practice through advocacy, and campaigns to prevent health care associated infections.

Venue and Date

Social media campaign

Total Beneficiaries (No)

More than 100

World Toilet Day (November 19, 2021)



Objectives

To advocate for better public toilets and safely managed sanitation, and to aware the students on importance of having clean, safe toilet.

Venue and Date

Shree Thulo Thakani S.S, Sindhupalchowk on 19 November, 2021

Major Activities

- Orientation on COVID-19 and WASH
- Interactive sessions

Total Beneficiaries (No)

More than 50

Tiktok Challenge on World Toilet Day using theme of 2021



Objectives

To create creative content based on world toilet day theme.

Venue and Date

Social Media, Tiktok.

Major Activities

Creative content making

World Water Day (March 28, 2022)



Objectives

To create creative content based on World Toilet Day Theme.

Venue and Date

Social Media, Tiktok.

Major Activities

Creative content making

Menstrual Hygiene Day (May 28, 2022)



"To create a world where no woman or girl is held back because they menstruate, by 2030"



Conducting session on activism for Menstrual Hygiene

Objectives

To conduct interactive session on activism for Menstrual Hygiene and share voices of youths.

Venue and Date

- Kanchan English Secondary School, 26 May, 2022
- Social Media

Major Activities

- Interactive session
- Information Dissemination
- Concept of Safe group for problem sharing
- Social Media Campaign

Total Beneficiaries (No)

100

World Environment Day (June 5, 2022)

Let's take another strong step in all of our conservation endeavors because we have "Only One Earth."

WORLD ENVIRONMENT DAY



#OnlyOneEarth



Objectives

To share information about climate change crisis to Least Development Countries (LDCs) amidst COVID-19 and to highlight on vulnerabilities of climate change to LDCs during and after this pandemic.

Venue and Date

- Kritipur
- Social Media Campaign

Major Activities

- Sharing and discussion program
- Information dissemination
- Water Quality Testing

Total Beneficiaries (No.)

More than 500



International Youth Day 2021



Paschim Paaila youths conducting Standup Campaign

Objectives

To connect youths to inspire and encourage for global action from local efforts.

Venue and Date

- Gwarkho on 12 August, 2021

Major Activities

- Sharing information
- Stand up campaign

Total Beneficiaries (No.)

More than 100

Beneficiaries from Day Celebration Events:



No. of volunteers mobilized in various day celebration events: 30 No. of People



Reached: More than 1350 people

11. Laboratory and Production Division

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 and soil 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 client of ENPHO lab. Through the expertise and experience of operating laboratory for 30-year, ENPHO laboratory also provides a technical support for the establishment of Minilab at different Municipalities.

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 Swachcha 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.

It also provides consultancy services for innovative, eco-friendly, and affordable solutions related to water, sanitation, and hygiene. It has been providing consultancy services for design, construction, operation, and maintenance, dissemination, and capacity building for the promotion of innovative, and environment-friendly technology related to water utilities, water conservation, rainwater harvesting, water storage, water recharge, wastewater, faecal sludge management, health care waste management, solid waste management and energy generation for households as well as institutional and commercial sectors. The company provides the services for the installation of bio-sand filters, and Eco septic tanks. Additionally, it has been working for the capacity building, designing modules and guidelines in the healthcare waste management sector.

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 2078-079 (2021-22).

Table 1: Details of samples analysed in ENPHO lab during FY 2078-79 (2021-22)

S.N.	Sample Category	Type of client		Total no. of samples
		Individual client	Corporate client	
1	Drinking Water	279	1092	1371
2	Wastewater	11	139	150
3	Sludge	0	107	107
4	Water (unspecified)	79	76	155
5	Compost	2	4	6
6	Soil	0	3	3
7	Others (chlorine solutions, Product QC, PA vial, ECC etc.)	0	187	187
Total no. of samples				1979

Table 2: Details of type and number of products sold during FY 2078-079 (2021-22)

S.N.	Name of Product	Unit	No. of Units Sold
1	Piyush	Pcs	62224
2	Piyush Plus	Pcs	14287
3	Water Test Kit	Set	205
4	PA VIAL	Pcs	7894
5	FRC Kit	Pcs	389
6	Arsenic Test kit	Set	18
7	Chlorine 1%	Pcs (Jar)	323
8	Body Belt Incubator	Pcs	138
9	Hardness Test Kit	Set	1
10	Ammonia Test Kit	Set	4
11	Iron Test Kit	Set	7
12	ECC Vial	Pcs	5955

Table 3: Details of individual reagents sold during FY 2078-079 (2021-22)

S.N.	Reagents	No. of units sold
1	Ammonia Reagent-1	109
2	Ammonia Reagent-2	109
3	Chloride Reagent-1	67
4	Chloride Reagent-2	65
5	Hardness Reagent-1	92
6	Hardness Reagent-2	92
7	Hardness Reagent-3	73
8	Iron Reagent-1	119
9	Iron Reagent-2	116
10	Iron Reagent-3	112
11	Nitrate Reagent-1	71
12	Nitrate Reagent-2	73
13	Phosphate Reagent-1	39
14	Phosphate Reagent-2	38
15	Methanol	33
16	PH Reagent	117
17	Distilled Water	7

Note: The reagents produced are also used in Water test kit and Arsenic test kit.

12. PME Section Update

2021/2022 (F/Y 2078/79 BS)

In the fiscal year 2021/22, PME unit has been engaged in different PME related activities, especially in two different projects; Suaahara II (IR1.2) and Integrated Urban IUWM Project. Apart from these projects, PME unit have also extended its involvement in other ENPHO projects and initiatives.

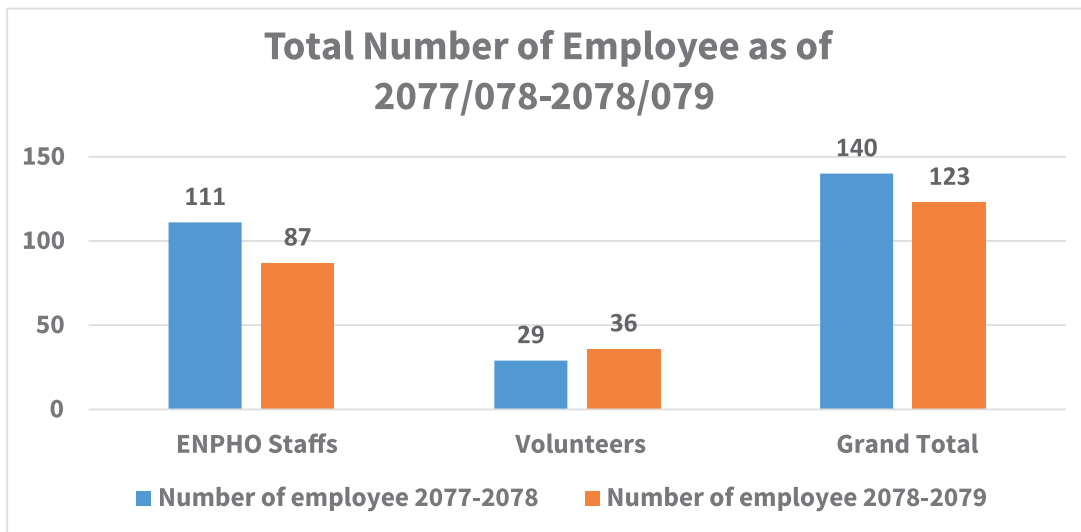
As we have practice in the previous years, projects monitoring has been carried out at different level. Project supervisors carried out project implementation output level monitoring. Likewise, thematic officers and managers have performed monitoring for progress and result of the projects and programs.

<p>SUAAHARA II PROJECT</p>	<ul style="list-style-type: none"> • Monthly, quarterly, semi- annual and annual DHIS 2 data check, followed up and corrected (IR 1.2 WASH part in SII project) • Field monitored in Dolakha, Dhading, Lamjung and Gulmi SII project districts. • DQA conducted in 7 SII districts; Myagdi, Baglung, Lamjung, Syangja, Gulmi, Nawalparasi and Bardiya • Engaged in data analysis for the activity “WASH in Health Facility” and “WASH mart”
<p>(Integrated Urban Water Management at the center of Municipal Public Services) BORDA PROJECT</p>	<ul style="list-style-type: none"> • Monitoring visit carried out at Kritipur and Godawari municipality, BORDA project

13. Organizational Development

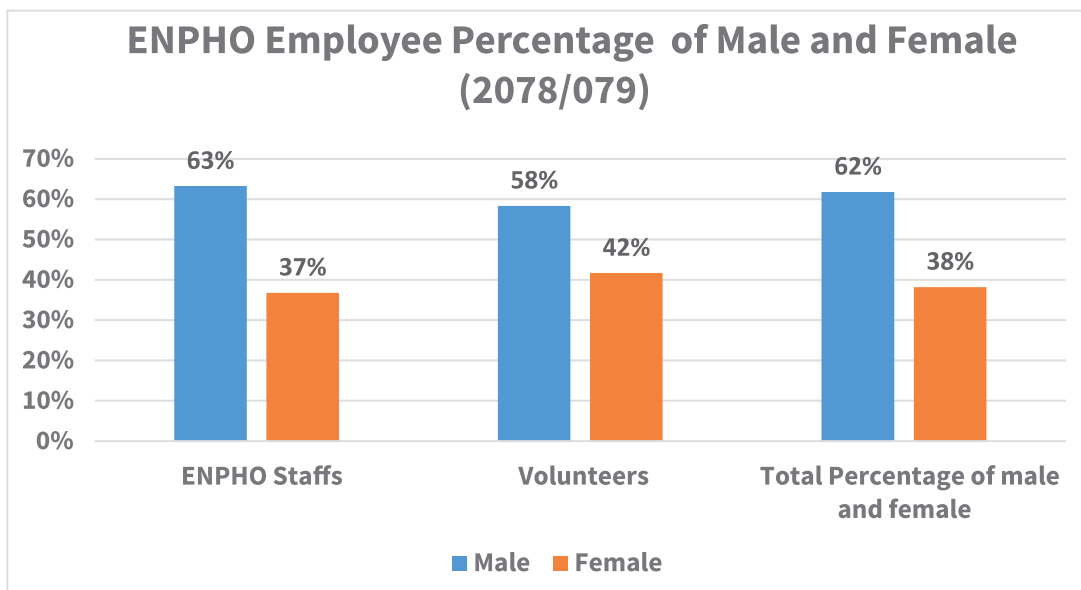
Human Resource Management

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 2078/079 is 87, which was 111 in 2077/078. The total number of Volunteers for 2078/079 is 36 and in 2077/078 it was 29. The total number of ENPHO employees is 123 in 2078/079 and was 140 in 2077/078. This year, there is a decrease of 22% in Regular, Time-Bound, and Task-Based Employees compared to the previous year.

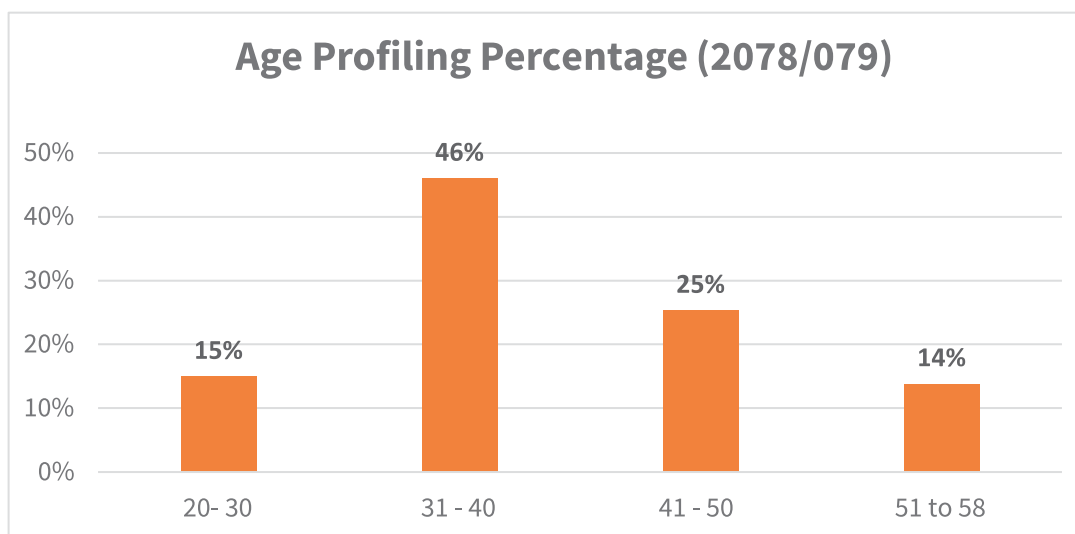
Gender Segregation of Employee



Out of total Regular, Time-Bound, Task-Based level employees, 37% are female whereas under the Volunteer category 42% of the total workforce is female. Overall, 38% of total employment is female and male comprises 62%.

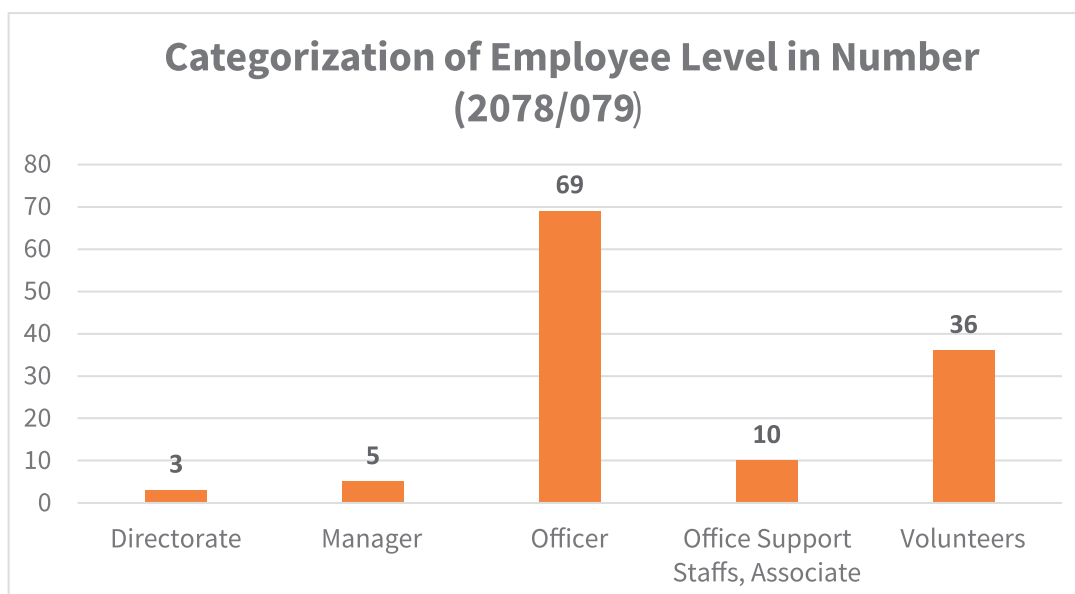
▪ **Employee’s Age Profile**

The age profiling calculation shows that 15% of Regular, Time-Bound and Task-Based Employee level staff are between the ages of 20 - 30. Whereas 46% of Regular, Time-Bound, Task-Based Employee level staff is between 31-40 years. Similarly, 25% of Regular, Time-Bound, and Task-Based Employee level staff is between 41-50 years, and 14% of Regular, Time-Bound and Task-Based Employee level staff is between 51-58 years. The average age of ENPHO Regular, Time-Bound, and Task-Based Employee level staff is 39 years.



▪ **Segregation of ENPHO Employee Level:**

A total of 3 numbers employees fall under the Directorate level and Managerial level staff of 5 numbers of employees. Similarly the maximum number of officers, in total 69, in total 10 numbers under office support staffs & Associate Level. Total of 36 numbers of under volunteers.



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.

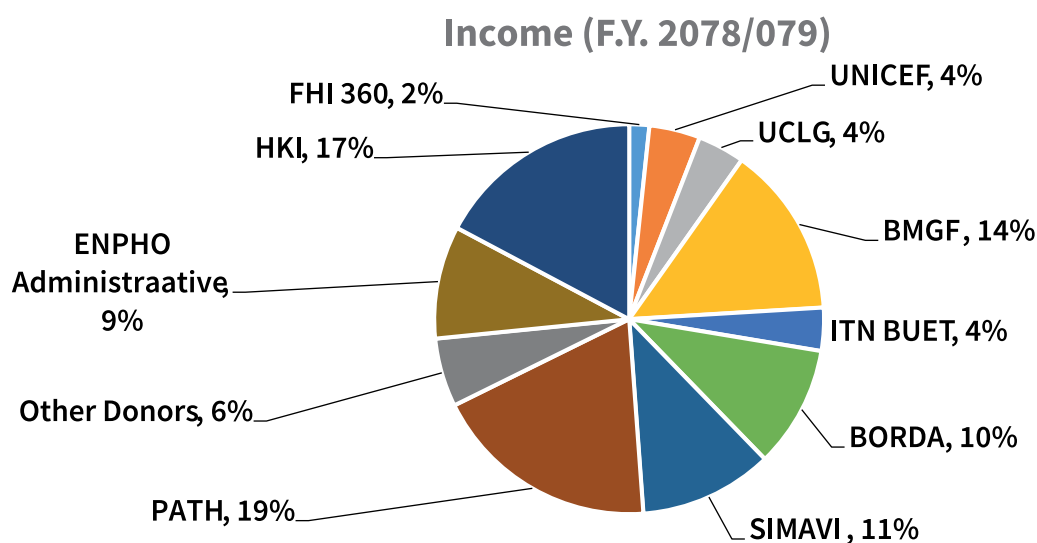
▪ Volunteer and Internship Management

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. Thirty Six volunteers were appointed at ENPHO during the fiscal year 2021/22.

14. Financial Management

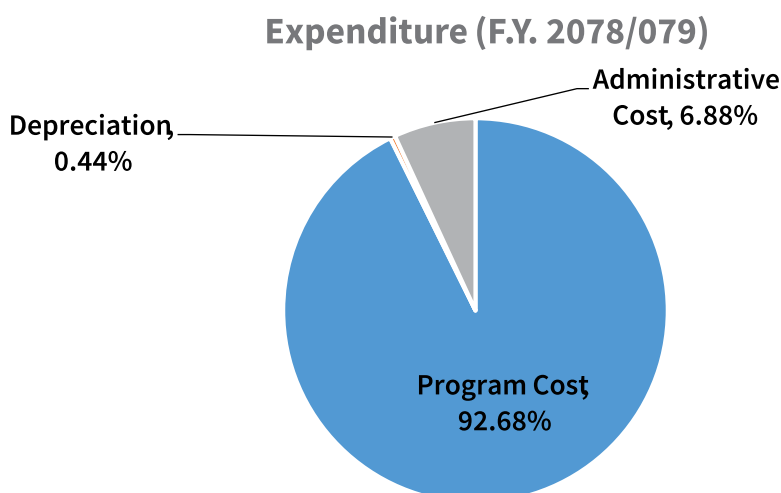
Income

ENPHO's total income for the year 2078/079 was NRs. 173,057,896.81 (US\$ 1,357,210.39 conversion 1 USD = NRs. 127.51). In the fiscal year 2078/079, there was decrease of 15% in income as compared to fiscal year 2077/078. This decrease in the total income was phasing out of COVID 19 related projects. The disaggregated contribution from completed and ongoing projects to ENPHO's annual income were 19% from PATH, 17% from SUA AHARA II USAID/HKI, 14% from BMGF, 11% from SIMAVI, 10% from BORDA, 9% from ENPHO's administrative income, 6% from other donors, 4% from UCLG, UNICEF & ITN BUET and 2% from FHI 360.

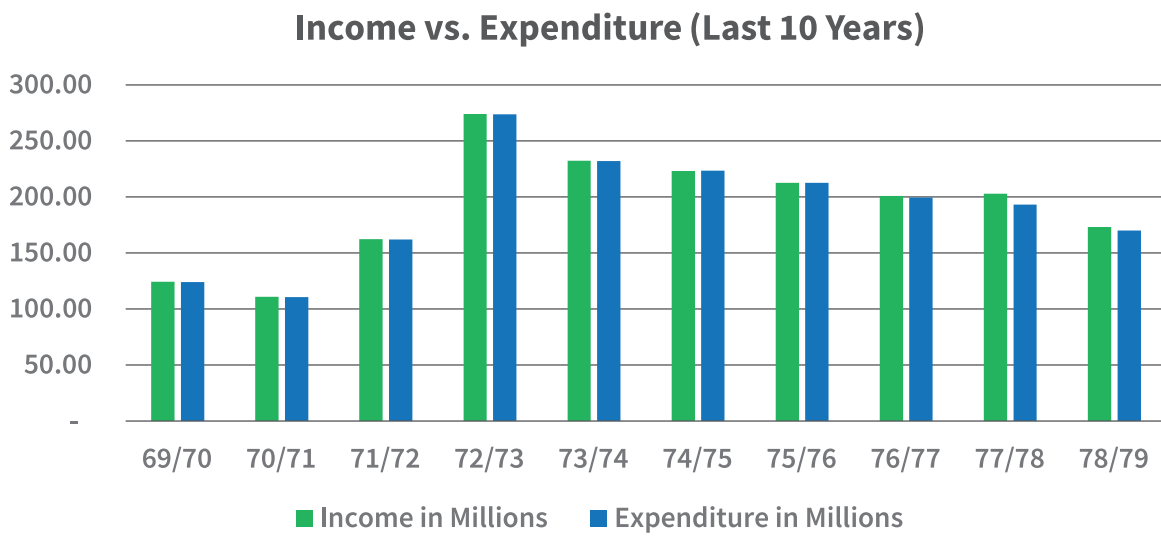


Expenditure

ENPHO's total expenditure for the year 2078/079 was NRs. 170,110,813.79 (US\$ 1,334,097.83, conversion 1 USD = NRs. 127.51). This is a 12% decrease compared to the previous year's expenditure. Of the total expenditure, 92.68% was spent on various on-going and completed projects/programmes, while 6.88% was spent on administration expenses. The overall distribution of annual expenditure is presented in the following graph.



Trend in Income and Expenditure over the last 10 Years



Please refer [Annex VI](#) for financial audit report and [Annex VII](#) for proposed budget for fiscal year 2079/080.

Annexure

Annex I

Project list 2021/2022

S.N.	Project Title	Program Area/District	Partners	Duration																
Sustainable Sanitation																				
1.	Piloting of FSM Standard in Nepal	Mahalaxmi Municipality, Lalitpur; Godawari Municipality, Lalitpur; Waling Municipality, Syangja	Bill & Mellinda Gates Foundation, Mahalaxmi Municipality, KVVWSMB, NBSM	January 2019 to December 2021 -Phase I January 2022 to December 2023 -Phase II																
2.	Municipalities Network Advocacy on Sanitation in South Asia (MuNASS Phase II)	<table border="1"> <thead> <tr> <th>Province</th> <th>Name of Municipality</th> </tr> </thead> <tbody> <tr> <td>Province no. 1</td> <td>Biratnagar Metropolitan City</td> </tr> <tr> <td>Madesh</td> <td>Janakpur Sub-Metropolitan City</td> </tr> <tr> <td>Bagmati</td> <td>Hetauda Sub-Metropolitan City</td> </tr> <tr> <td>Gandaki</td> <td>Pokhara Metropolitan City</td> </tr> <tr> <td>Lumbini</td> <td>Tulispur Sub-Metropolitan City</td> </tr> <tr> <td>Karnali</td> <td>Birendranagar Municipality</td> </tr> <tr> <td>SudurPaschim</td> <td>Dhangadhi Sub-Metropolitan City</td> </tr> </tbody> </table>	Province	Name of Municipality	Province no. 1	Biratnagar Metropolitan City	Madesh	Janakpur Sub-Metropolitan City	Bagmati	Hetauda Sub-Metropolitan City	Gandaki	Pokhara Metropolitan City	Lumbini	Tulispur Sub-Metropolitan City	Karnali	Birendranagar Municipality	SudurPaschim	Dhangadhi Sub-Metropolitan City	Bill & Mellinda Gates Foundation, United Cities for Local Government – Asia Pacific (UCLG ASPAC), MuAN	May 2018 to December 2020 -Phase I November 2021 to June 2024 -Phase II
Province	Name of Municipality																			
Province no. 1	Biratnagar Metropolitan City																			
Madesh	Janakpur Sub-Metropolitan City																			
Bagmati	Hetauda Sub-Metropolitan City																			
Gandaki	Pokhara Metropolitan City																			
Lumbini	Tulispur Sub-Metropolitan City																			
Karnali	Birendranagar Municipality																			
SudurPaschim	Dhangadhi Sub-Metropolitan City																			
Integrated WASH																				
3.	WASH SDG Nepal Implementation	Bheriganga Municipality and Barahtal Rural Municipality, Surkhet	WASH Alliance International (WAI)	January 2018 to June 2020 -Phase I July 2020 - March 2023 -Phase II																
4.	Integrated Urban Water Management at the Center of Municipal Public Services (IUWM Project)	Godawari and Kirtipur Municipality	BORDA	January to December 2021 -Phase II, 1st year January to December 2022 -Phase II, 2nd year																
5.	Towards Achieving Resilient and Water Safe Urban Communities in selected areas of Kathmandu Valley	3 communities from Godawari Municipality (Basuki Sikharpa, Ward 6) and Mahalaxmi Municipality (Ghimirethok, Ward 9 and Mathillo Dovan, Ward 8)	UNICEF	November 2021 to March 2023																

S.N.	Project Title	Program Area/District	Partners	Duration
Emergency WASH and Disaster Risk Reduction				
6.	Emergency COVID 19 Support- Rapid Action Task Force Project	Kathmandu and Lalitpur Metropolitan City, Khotang, Jumla, Ramechhap	BMGF; City Wide Inclusive Sanitation Technical Assistance Hub In South c/o Devconsultants Limited	June to September 2021
7.	Nepal Mask: COVID-19 Response Project	Madhyapur Thimi Municipality, Bhaktapur; Kathmandu Metropolitan City; Melamchi Municipality, Sindhupalchowk; Koshi Rural Municipality, Sunsari; Kamalamai Municipality, Sindhuli	BMGF, Yale University and Innovative Poverty Action (IPA)	June to December 2021
8.	Emergency COVID 19 Support- Rapid Action Task Force (C-19 RAT) Project	Ramechhap, Sindhuli, Ilam, Kavre, Dolakha, Mugu, Bajura, Makwanpur, Kathmandu District	CNCA, NHCF	June to September 2021
9.	Enhancing Cholera Control in Nepal (ECHO Nepal)	Kathmandu and Lalitpur District	GNI	July, 2021 to December, 2023
Research and Development				
10.	Data Collection Survey on Water Supply and Sanitation Management of Major Cities of Nepal	Dharan, Itahari, Kalaiya, Jitpur Simara Nepalgunj, Ghorahi, Dhangadi, Tulsipur Sub-metropolitan Cities; Bharatpur and Biratnagar Metropolitan Cities	JICA Nepal	November 2019 to November 2021
11.	Wastewater-based Epidemiology of SARS-CoV-2 for Averting COVID-19 outbreaks in Nepal (WESCAN)	Kathmandu Valley and Dhulikhel, Kavrepalanchowk	PATH	January 2021 to May 2022
12.	Faecal Sludge Characterization Study in Kathmandu Valley.	Kathmandu Valley	Project Implementation Directorate (PID)/ DOHWA Engineering Co. Ltd	30 August to September 2021
WASH and Nutrition				
13.	Suaahara II Good Nutrition program	Province 1 : Sankhuwasabha, Bhojpur, Solukhumbu, Taplejung, Panchthar districts. Province 3: Dhading, Rasuwa, Nuwakot, Sindhupalchowk, Dolakha districts. Province 4: Gorkha, Myagdi, Baglung, Lamjung, Syangja, Nawalparasi (West), Nawalpur districts. Province 5: Nawalparasi (East), Kapilvastu, Rupandehi, Gulmi, Argakhachi, Palpa, Rukum, Dang, Rolpa, Pyuthan, Bardiya, Banke districts. Province 6: Dailekh, Jajarkot, Rukum west, Salyan and Surkhet districts. Province 7: Bajura, Darchula, Baitadi, Achham, Daddeldhura, Bajhang, Doti, Kanchanpur and Kailali districts. (40 districts)	USAID, HKI	May 2016 to September 2022

S.N.	Project Title	Program Area/District	Partners	Duration
Capacity building on WASH				
14.	Green Rooftop Farming Project	Madhyapur Thimi Municipality Ward no. 1 and 3, Bhaktapur	UN Habitat	January 2021 to February 2022
15.	Citywide Inclusive Sanitation Scaling and Sanitation Innovation		ITN-BUET, Dhaka/BMGF	17 November 2021 to December 2025
Advocacy on WASH				
16.	Sanitation and Water for All (SWA) Catalytic Fund	Nationwide	FANSA	January to March 2022
17.	Freshwater Action Network South Asia (FANSA) Interim Plan of Action Project	Nationwide	FANSA	January to March 2022
18.	Amplifying community voices to influence the process and outcome of SACOSAN VIII	Bagmati Province and Province 1	FANSA	January to May 2022
Air quality				
19.	Strengthening Capacity, Willingness and Engagement for Evidence based Policy and Program for Air Quality Improvement in Kathmandu Valley (USAID Clean Air Program (Swachchha Hawa))	Kathmandu Valley : 18 municipalities (Year I in 5 municipalities : Changunarayan, Kathmandu, Lalitpur and two other)	FHI 360	16 February 2022 to 15 August 2026

Annex II

Executive Board Members (2021-2023)



Er. Rajiv Joshi
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WASH Expert and Former
Director at Kathmandu Valley
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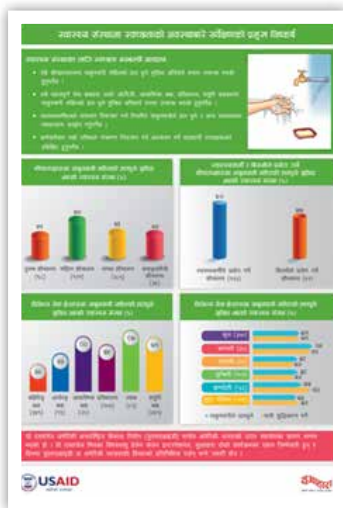
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Mr. Phurba Sange Moktan
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Annex III

Glimpses of Publications Published in FY 2021/2022



Poster: Assessment Findings of WASH in Health Facilities



Poster: Standard for WASH in Health Facilities



Poster: Advocacy for National Sanitation Commitment at 3-tiers of Nepal Government & Case of FSTP from Nepal



Poster: Water Safe Community



Display Flex: Self-evaluation chart of school



Display Flex: Methods of testing Free Residual Chlorine in water



Display Signage: Method to operate menstrual pad disposal machine and pad vending machine



Notebook: MUNAS-II and CWIS project



ENPHO Calendar 2079



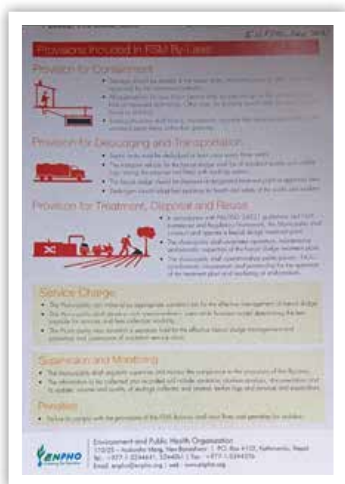
Brochure: Roof top Farming, Nepali



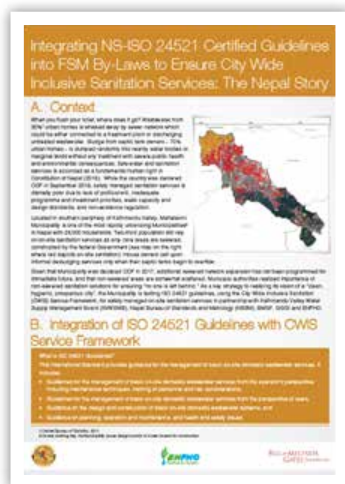
Brochure: Roof top Farming, English



Flyer: Policy Brief on National Adoption of ISO 24521 Guidelines



Flyer: Provisions in FSM By-Laws



Flyer: Nepal case on FSM By-Laws & CWIS



Special Bulletin 2021



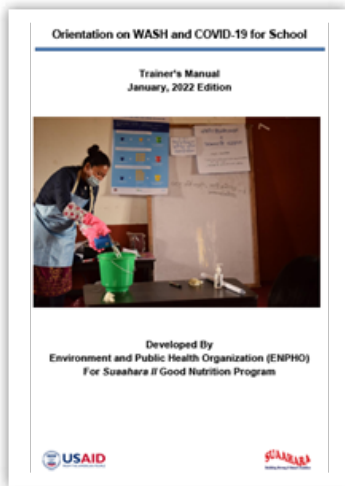
Anjali 2078



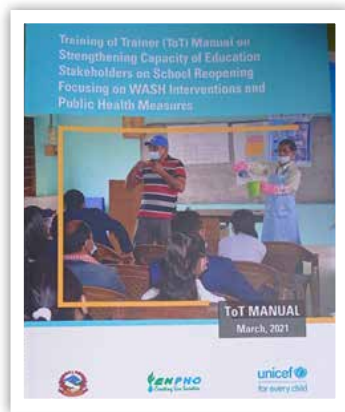
Trainer's Manual on Rooftop Farming



Trainer's Manual (Orientation on Infection Prevention and Control in Healthcare Facilities)



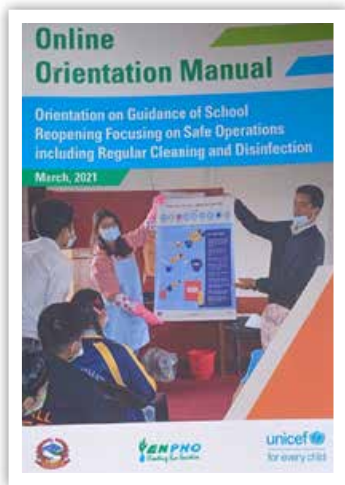
Trainer's Manual (Orientation on WASH and COVID-19 for School)



ToT Manual



Trainer's Orientation Manual



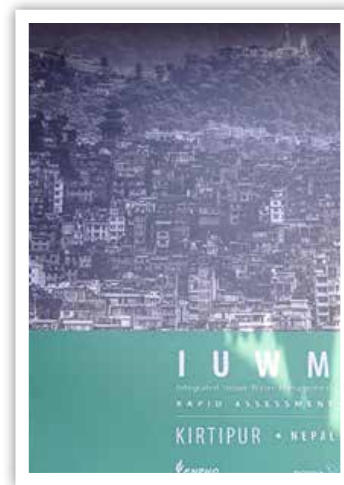
Online Orientation Manual



SFD Report of Godawari & Kirtipur Municipality



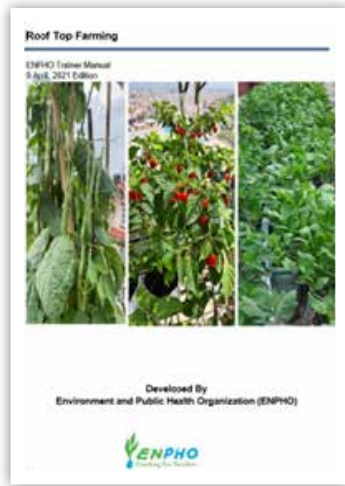
Final Report of Characterization of Faecal Sludge at Kathmandu Valley



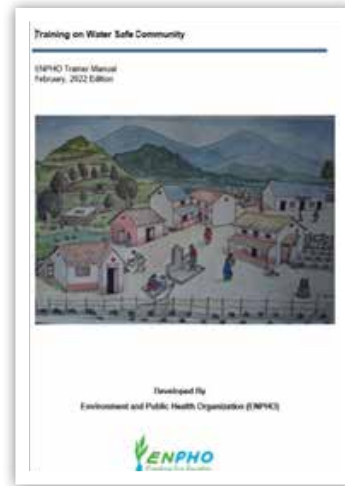
Rapid Assessment Report on Status of Integrated Urban Water Management in Kirtipur Municipality



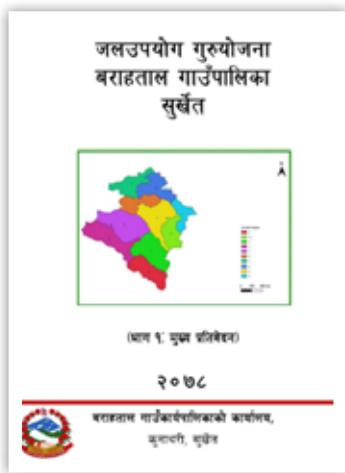
CHP manual/TC



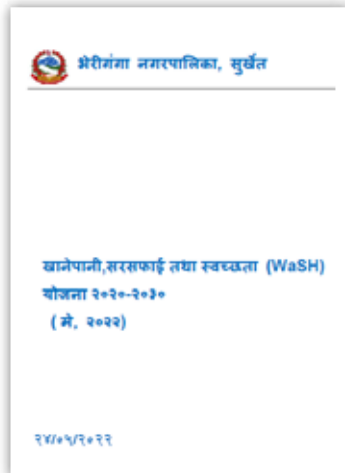
RTF/TC



WSC/TC



Water Use Master Plan for Barahatal Municipality



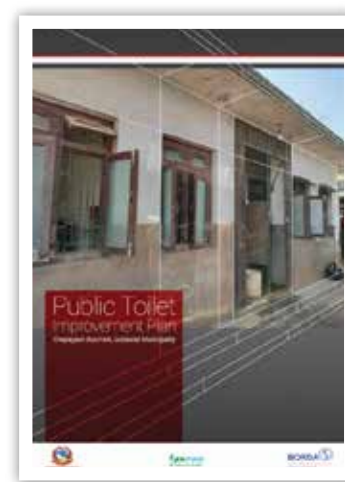
WASH Plan for Barahatal and Bheriganga Municipality



Operational Plan for WASH Facility (Kirtipur Municipality)



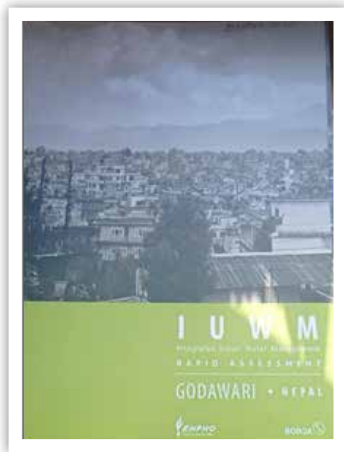
Solid Waste Management Strategic Plan: Kirtipur Municipality



Public Toilet Improvement Plan: Chapagaun Bus Park, Godawari Municipality



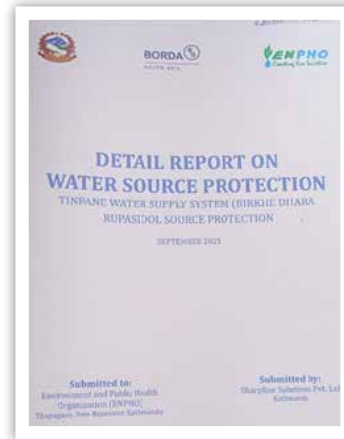
Annual Report: IUWM project



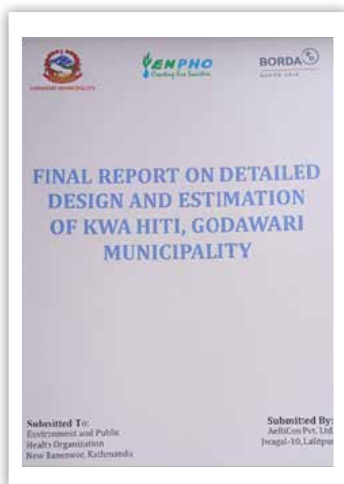
Rapid Assessment Report on Status of IUWM in Godawari Municipality



Situational Assessment Report on Health Care Management System in Kirtipur Municipality



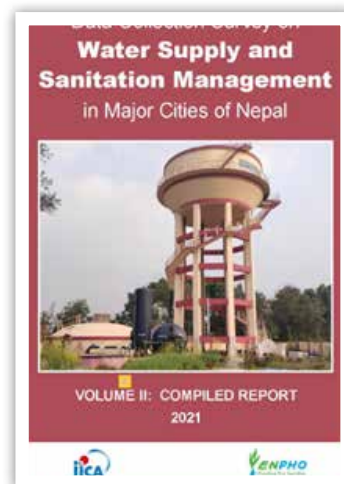
Detail Report on Water Source Protection (4 reports of various Water Supply System)



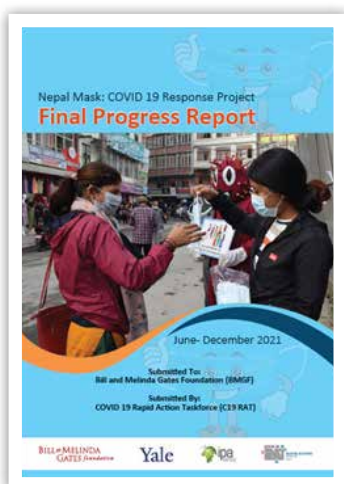
Report on Detailed Design and Estimation of Kwa Hiti (10 reports of various water sources of Godawari & Kirtipur municipality)



Detail Scheme Report on Water Supply Scheme (6 reports of various scheme)



Compiled Report on 'Data Collection Survey on Water Supply and Sanitation Management of Major Cities of Nepal', (11 reports)



Final Report: Nepal Mask: COVID 19 Response Project



Synopsis: Nepal Mask: COVID 19 Response Project



Annual Report 2021 of ENPHO

Annex IV: Awards & Recognitions Presented by ENPHO



ENPHO Tara- Best Employee of the Year 2078 awarded to Ms. Srijana Shakya



“Bigyan Memorial Research Award” has been awarded to Ms. Ganga Shrestha



“Hutaram Environment Award” has been awarded to Mr. Narayan Khaitu



“Raju Memorial Youth Award” has been awarded to Ms. Shilshila Acharya



“Bhairab Risal Media Fellowship 2021” award was handed over to Ms. Manika Bishwokarma

Annex V

ENPHO in NEWS

News Clips:



Online News:

Link : <https://washkhabar.com/np/2022/03/27/26449?fbclid=IwAR1PBmXtV3pdTqfWwUYheB1yPy3kjYhXzSqPrJOid3qKpQWWmHbm-MlSk>



Link : <https://nepaltronline.com/2022/03/43454/?fbclid=IwAR3PaHbJm8RnSlijqYGLyHWaaF8f6KfMuzVszl6fbCeDMJKTAOx3rvjLN1o>



Link : <https://simavi.nl/en/stories/in-this-nepali-community-climate-change-is-mostly-felt-through-water>



Link : <https://annapurnapost.com/news/lets-learn-from-garbage-seal-and-walling-206201>



Link : https://aadhikholakhabar.com/2021/03/waling_ledo/?fbclid=IwAR1oYN4dJVYEQHXChjBRi3F7qC2SVn1ktkz4jr0EdG0Ap2JqWO1_-8CNw0M



Link : https://dhorpatannews.com/2022/07/81953/?fbclid=IwAR3DlrYKvateDw_men6vBtjBNvcEskmJ_xGD8CkF5lVjMOfHlWkFpNMaA



Link : <https://dharatalonline.com/news/110547fbclid=IwAR3HSEe0hksEMhbCOTNHZGHp7ZeGHxSfT3DC4NGDyJLLBuXEIYAoS-K3KqC>



Annex VI: Financial Audit Report

R. K. Associates
Chartered Accountants

New Baneshwor
Kathmandu, Nepal
Ph: +977 (1) 4784922
Email: rkassociates@rsa.com.np

Independent Auditor's Report To the Members of Environment and Public Health Organization

Report on the Audit of the Financial Statements

We have audited the accompanying financial statements of **Environment and Public Health Organization (ENPHO)**, which comprise the Balance Sheet as at 32 Ashad 2079 (16 July 2022), Income Statement, Receipt and Payment Statement for the year then ended on that date and a summary of Significant Accounting Policies and Explanatory Notes to Account.

Opinion

In our opinion, and to the best of our information and according to the explanations given to us, the accompanying financial statements present fairly in all material respects, the financial position of the ENPHO as at 32 Ashad 2079 (16 July 2022) and of the results of its financial performance for the year then ended in accordance with Generally Accepted Accounting Principles (GAAP) in compliance with the prevailing laws and terms of agreement with donors.

Basis for Opinion

We conducted our audit in accordance with Nepal Standards on Auditing (NSAs). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the ENPHO in accordance with ICAN's Handbook of Code of Ethics for Professional Accountants. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Management's Responsibilities

Management is responsible for the preparation and fair presentation of the financial statements in accordance with GAAP, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities

Our objectives are to obtain reasonable assurance about whether the Statement is free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with NSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these documents.

As part of an audit in accordance with NSAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:



- Identify and assess the risks of material misstatement of the statement, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit 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 the organization's internal control.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.



CA. Rabin Kumar Shrestha
Principal
R. K. Associates
Chartered Accountants

Date: Sep 06, 2022
Place: Kathmandu

UDIN: 220906CA00349ohJRt

Bhadra 21, 2079 (06 September 2022)

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 2078/79.

Dear Sir;

We are pleased to submit our report on the results of statutory audit for the fiscal year 2078/79.

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 8 executive board members, 136 general members and is managed by 87 staff members and 36 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 32 Asadh 2079 (16 July 2022), Statement of Income & Expenditure and Fund Accountability Statement for the period 01 Shrawan 2078 to 32 Asadh 2079 (corresponding to 16 July 2021 to 16 July 2022), presents fairly in all material respects, project revenues and costs incurred for the period audited and balances as on 32 Asadh 2079.



- ii. Provide an overall assessment of the operational and internal control systems including program progress and delivery that are in place for the management of project so that related transactions are processed in accordance with donor's and ENPHO's policies and procedures, contract document and approved budget for the achievement of different project objectives.
- iii. Provide the monetary value of the Net Financial Impact of the qualification in audit opinion on each of the financial statements referred above.

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

The scope of our work included the following general procedures:

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



C. Audit Results

Our independent auditor's report dated Bhadra 21, 2079 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 32 Ashad 2079 and of the results of its financial performance for the year then ended in accordance with Generally Accepted Accounting Principles and in compliance with the prevailing laws and terms of agreement with donors.

ii. System of Internal Control

Our study and evaluation of the internal control system, during the course of our audit, did not disclose any material discrepancies that we considered as a reportable condition. The matters noted by us, which were not of material nature, have been reported in our management letter dated Bhadra 21, 2079.

D. Status of prior year's audit recommendation

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

E. Management Letter and Management Response

We have issued our management letter on Bhadra 21, 2079 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. Rabin Kumar Shrestha
Principal
R. K. Associates
Chartered Accountants
Place: Kathmandu, Nepal


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


Balance Sheet
As at 32 Ashad 2079 (16 July 2022)

Particulars	Schedule	Amount (Rs.)	
		2078/79	2077/78
A. Sources of Fund			
Capital Fund Balance		1,070,081.30	1,070,081.30
Revaluation Surplus Fund		3,644,952.39	3,727,427.65
Surplus Fund	1	34,466,766.63	32,457,296.52
Total Sources of Fund		39,181,800.32	37,254,805.47
Applications of Fund			
B. Fixed Assets			
	2	6,969,213.03	7,231,656.16
C. Current Assets, Loans & Advances			
Program Advance and receivables	3	6,340,725.38	7,110,628.91
Other Advance and Deposit	4	4,971,601.02	6,091,181.41
Project Advances/Receivables of Other program	5	6,567,435.72	6,063,791.28
Cash & Bank Balance of Project Accounts	6	35,565,169.46	36,685,652.64
Cash & Bank Balance of ENPHO	7	82,036,120.02	54,823,205.53
		135,481,051.60	110,774,459.77
D. Less: Current Liabilities & Provisions			
Liabilities for on Going Other Programs	8	38,217,318.76	38,049,889.42
Sundry Creditors	9	10,214,968.47	8,018,640.36
Liabilities for on Going Programs of Donors (Fund)	10	54,836,177.08	34,682,780.68
		103,268,464.31	80,751,310.46
E. Working Capital (C-D)			
		32,212,587.29	30,023,149.31
Total Application of Fund (B+E)		39,181,800.32	37,254,805.47

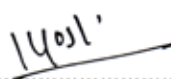
Significant Accounting Policies and Explanatory Notes to Account Schedules 1 to 21 form an integral part of this financial statement


As per our report of even date


Nirajan Pradhan
Admin & Finance Director


Bhawana Sharma
Executive Director


Prakash Amatya
Treasurer


Er. Rajiv Joshi
Chairperson


CA. Rabin Kumar Shrestha
Principal
R. K. Associates
Chartered Accountants

Date: 21 Bhadra 2079
Place: Kathmandu, Nepal

Environment and Public Health Organization (ENPHO)
New Baneshwor, Kathmandu
Income Statement
For the Period 01 Shrawan 2078 to 31 Ashad 2079 (16 July 2021 to 16 July 2022)

Particulars	Schedule	Amount (Rs.)	Amount (Rs.)
		2078/79	2077/78
Income			
Remittances From Donors	11	-	102,250.00
Remittances From other Project Activities	12	156,872,852.96	181,536,573.68
Income from Activities	13	16,183,482.09	21,294,487.36
Income from Other Activities	14	1,561.76	7,583.74
		173,057,896.81	202,940,894.78
Expenditure			
Program Cost	15	-	88,899.20
Program Cost of Other Project activities	16	157,658,682.80	173,447,852.67
Institutional / Administrative Cost	17	5,193,926.39	7,583,822.59
Repair & Maintenance	18	53,501.17	184,565.47
Other Activity Expenses	19	3,350,461.23	3,195,371.77
Expenditure Incurred to Projects	20	3,102,044.67	7,871,873.03
Depreciation	2	752,197.53	785,345.07
		170,110,813.79	193,157,729.80
Excess of Income over Expenditure		2,947,083.02	9,783,164.98


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


 Er. Rajiv Joshi
 Chairperson


 CA. Rabin Kumar Shrestha
 Principal
 R. K. Associates
 Chartered Accountants

Date: 21 Bhadra 2079
 Place: Kathmandu, Nepal

Environment and Public Health Organization (ENPHO)

New Baneshwor, Kathmandu

Receipt and Payment Statement


For the Period 01 Shrawan 2078 (16 July 2021 to 16 July 2022)


Receipt	Schedule	Amount (Rs.)		Payment	Schedule	Amount (Rs.)	
		2078/79	2077/78			2078/79	2077/78
Op. Cash & Bank Balance (ENPHO)	7	54,823,205.53	30,583,921.78	Op. Liability of Donors	10	34,682,780.68	13,994,725.02
Op. Cash & Bank (Project Accs)	6	36,685,652.64	24,810,187.17	Op. Liability of other Program	8	38,049,889.42	32,976,547.51
Opening Staff Advances				Op. Sundry Creditors	9	8,018,640.36	5,695,624.87
Op. Program Advances & Receivables	3	7,110,628.91	7,787,710.32	Op. Sundry Creditors	19	3,350,461.23	3,195,371.77
Op. Project Adv. Receivable	5	6,063,791.28	5,769,614.99	Lab analysis & Production Expenses.	2	489,754.40	109,000.00
Op. Other Advance and Deposit	4	5,091,181.41	3,909,485.55	Purchase of Non-Expendable Equipment	17	5,193,926.39	7,583,822.59
Fund Received from Projects	11		102,250.00	Administrative Expenses	18	53,501.17	184,565.47
Income from Other Project Activities	12	156,872,852.96	181,536,573.68	Repair & Maintenance	15		88,899.20
Interest earned From Other Activities	13	16,101,005.83	21,205,519.41	Project Expenses	16	157,658,682.80	173,447,852.67
Disposal of Non Expendable Equipment	2	1,561.76	7,583.74	Other Project Activities Exps.	20	3,102,044.67	7,871,873.03
Closing Sundry Creditors	9	10,214,968.47	8,018,640.36	Expenditure Incurred to Project	3	6,340,725.38	7,110,628.91
Closing Liability for Other Program	8	38,217,318.76	38,049,889.42	Program Advance & Receivables	4	4,971,601.02	6,091,181.41
Closing Liability for Ongoing Program (Fund)	10	54,836,177.08	34,682,780.68	Other Receivable & Deposit	5	6,567,435.72	6,063,791.28
				Project Advance Receivable of other	7	82,036,120.02	54,823,205.53
				Cash & Bank Balances / ENPHO	6	35,565,169.46	36,685,652.64
				Cash & Bank Balances (Project)		937,612.91	552,355.20
				Adjustment of Old Balances			
Total		387,018,345.63	356,475,097.10	Total		387,018,345.63	356,475,097.10

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

As per our report of even date


Niranjan Pradhan
Admin & Finance Director


Bravana Sharma
Executive Director


Prakash Amatya
Treasurer


Er. Rajiv Joshi
Chairperson


CA. Rabin Kumar Shrestha
Principal
R.K. Associates
Chartered Accountants

Date: 21 Bhadra 2079
Place: Kathmandu, Nepal



Schedule 2

Particulars	Gross Block			Disposal during the year	Total value as of 32 Ashad 2079	Accumulated Dep. upto 31 Ashad 2078	Net Book Value	Rate	Depreciation		Net Block	
	Historical cost	Addition during the year							As at 2079	Total Accu. Depreciation as at 32 Ashad 2079	As at 32 Ashad 2079	As at 31 Ashad 2078
Land 1-02-0-0	2,182,500.00				2,182,500.00	-	2,182,500.00	-		-	2,182,500.00	2,182,500.00
Building 6172 sq. ft	6,480,452.72				6,480,452.72	3,741,760.45	2,738,692.27	5%	136,934.61	3,878,695.06	2,601,757.66	2,738,692.27
Office Furniture (Wooden & Steel)	2,876,826.70	101,869.50			2,978,696.20	2,624,814.57	353,881.63	25%	73,822.78	2,698,637.35	280,058.85	252,012.13
Office Equipment:	5,176,687.43	306,484.90			5,483,172.33	4,571,809.90	911,362.43	25%	209,760.63	4,781,570.53	701,601.80	604,877.53
a) Computer, Printer, Laptop FAX												
b) Multimedia, Fax Mac Computer & Printer-Lab	411,710.59				411,710.59	379,381.17	32,329.42	25%	8,082.36	387,463.53	24,247.06	32,329.42
Lab Equipment- (AAS, GC etc.)	13,956,359.64				13,956,359.64	12,799,089.77	1,157,269.87	15%	173,590.48	12,972,680.25	983,679.39	1,157,269.87
Loose tools	13,064.00	47,500.00			60,564.00	12,620.16	47,943.84	25%	11,985.96	24,606.12	35,957.88	443.84
Vehicles (include Motor)	4,747,261.50				4,747,261.50	4,605,455.37	141,806.13	20%	28,361.23	4,633,816.60	113,444.90	141,806.13
Software	888,753.00	33,900.00			922,653.00	762,155.35	130,497.65		103,377.65	865,533.00	27,120.00	96,597.65
Solar Pannel	98,000.00				98,000.00	82,124.00	15,876.00	25%	3,969.00	86,093.00	11,907.00	15,876.00
Miscellaneous	95,341.25				95,341.25	86,089.93	9,251.32	25%	2,312.83	88,402.76	6,938.49	9,251.32
Total	36,896,956.83	489,754.40			37,386,711.23	29,665,300.67	7,721,410.56		752,197.53	30,417,498.20	6,969,213.03	7,231,656.16



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Annex VII

Proposed Budget for Fiscal Year 2079/080

ENVIRONMENT & PUBLIC HEALTH ORGANIZATION (ENPHO) Budgeted Income for the Financial Year 2079/080

S.N	Particulars	Amount NRs.
1	Administration Support Cost / Management Cost	14,622,300
2	Pipe line Projects	24,100,000
3	Training, Rent & Royalty Income	3,250,000
4	On-going Projects	146,223,000
Total		188,195,300

Environment and Public Health Organization (ENPHO)

New Baneshwor

Budgeted Expenses for the Financial Year 2079/080

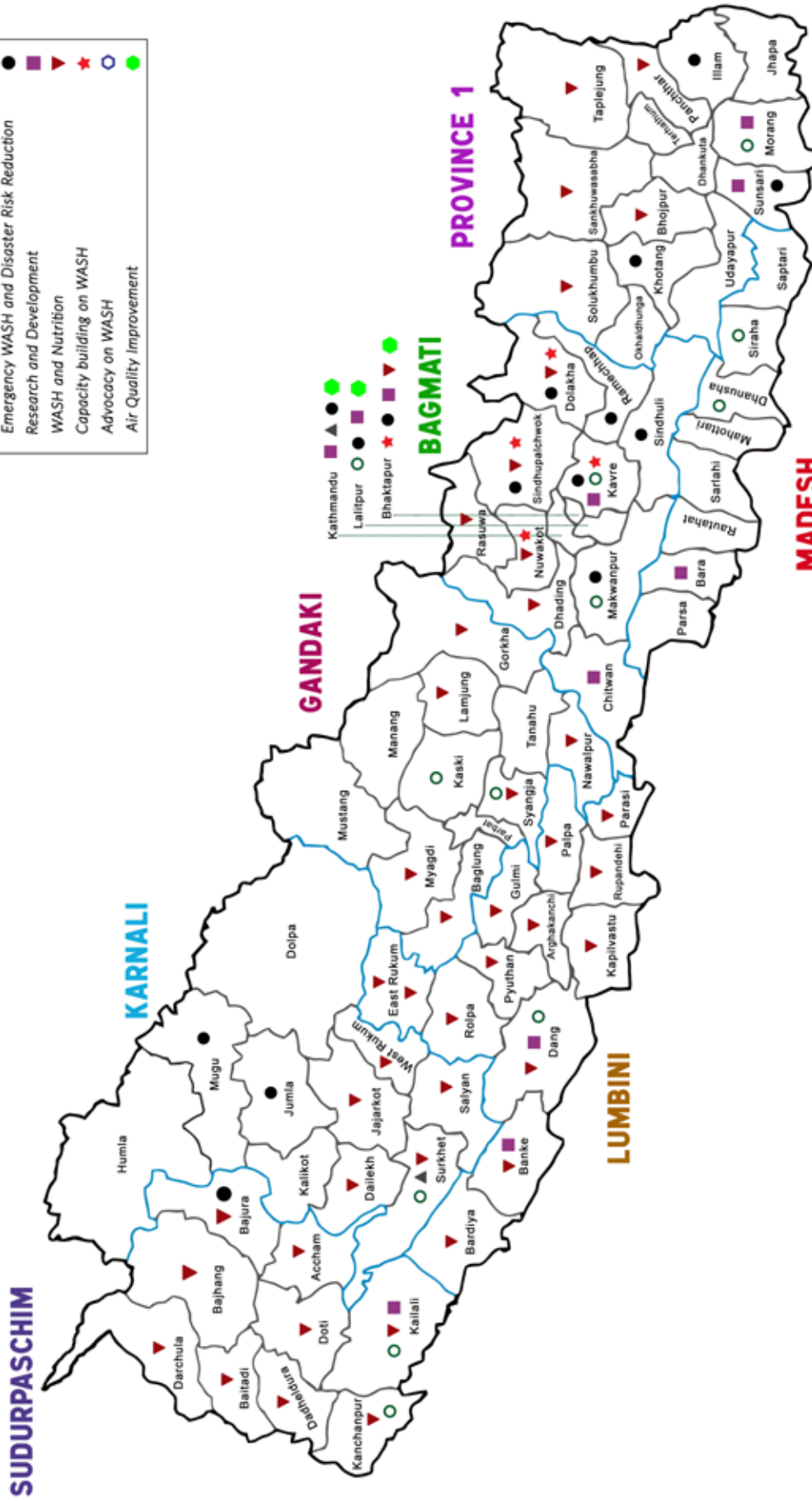
Administrative Cost

S.N	Details	Amount N Rs.
1	Advertisement Expenses	40,000
2	AGM	500,000
3	Audit Fee	140,000
4	Award Expenses	100,000
5	Bank Commission	5,000
6	Capacity Building	150,000
7	Consultant	350,000
8	Day Celebration Expenses	50,000
9	Fee & Renewal	350,000
10	Insurance Staff	120,000
11	Internal Auditor	226,000
12	Insurance of Assets	150,000
13	Internet Expenses	270,000
14	Legal Adviser	200,000
15	Low Value Assets	100,000
16	Meeting Expenses	250,000
17	Monitoring Expenses	150,000
18	Office Running Cost (Refreshment, Gas, Cleaning etc....)	900,000
19	Printing & Stationary	300,000
20	Project Proposal Development	100,000
21	Repair & Maintenance	950,000
22	Research	100,000
23	Security Guard	750,000
24	Software/ Social media and Website Renewal Expenses	250,000
25	Staff Salary	10,028,400
26	Telephone	60,000
27	Transportation	600,000
28	Water & Electricity	450,000
Total		17,639,400

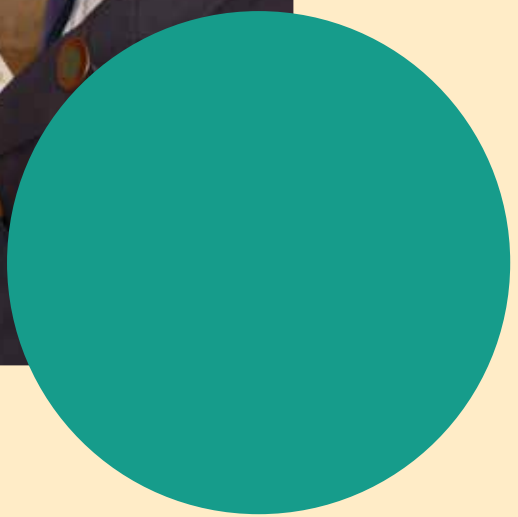
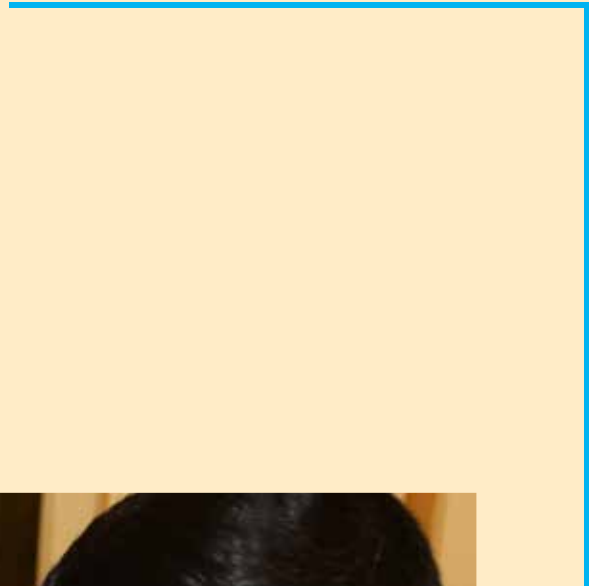
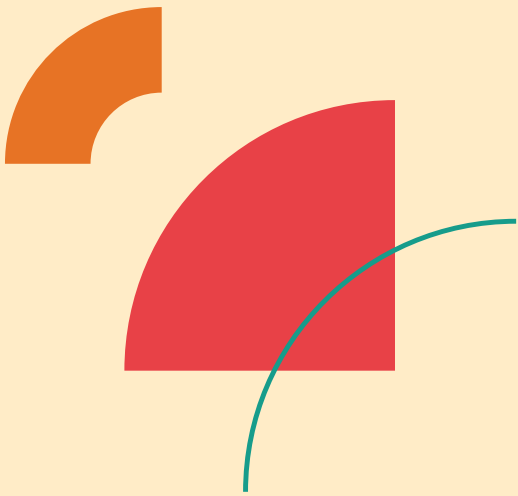
ACRONYMS

AAS	Atomic Absorption Spectrophotometer	D-WASH-CC	District Water Sanitation Hygiene Coordination
AIT	Asian Institute of Technology	DWSS	Department of Water Supply and Sewerage
AWF	Appropriate WASH facilities	ECC Vial	E. Coli and Coliform Vial
BCC	Behavior Change Campaign	ECHO-N	Enhancing Cholera Control in Nepal
BCD	Behaviour Centric Design	EcoSan	Ecological Sanitation
BSF	Bio- sand Filter	EPD	Education Program Development
CAWST	Centre for Affordable Water and Sanitation Technology	EOI	Expression of Interest
CBS	Central Bureau of Statistics	FSM	Faecal Sludge Management
CCMC	COVID-19 Crisis Management Co-ordination Center	FSTP	Faecal Sludge Treatment Plant
CDF	Community Development Forum	FGD	Focus Group Discussion
CIUD	Centre for Integrated Urban Development	FSCN	Friends Service Council Nepal
CNCA	Calgary Nepalese Community Association	FEDWASUN	Federation of Drinking Water and Sanitation Users Nepal
ConCAD	Consulting Capacity Development of Urban Sanitation	GESI	Gender Equality and Social Inclusion
COVID 19	Coronavirus Disease	GIS	Geographic Information System
CRWSP	Climate Resilient Water Safety Plan	GoN	Government of Nepal
CWF	Community Women Forum	IEC	Information Education Communication
CWIS	City-Wide Inclusive Sanitation	I/NGOs	International/Non-Governmental Organization
C-19 RAT	COVID 19 Rapid Action Taskforce	IPC	Infection Prevention and Control
DAG	Disadvantage Group	ISO	International Standards Organization
DEO	District Education Office	IUWM	Integrated Urban Water Management
DEWATS	Decentralized Wastewater Treatment System	IWM	Integrated Water Management
DFID	Department for International Development	J-WAFS	Abdul Latif Jameel Water and Sanitation Food Systems Lab
DPR	Detail Plan Report	KMC	Kathmandu Metropolitan City

KVWSMB	Kathmandu Valley Water Supply Management Board	PP	Paschim Paaila
LSF	Learning and Sharing Friday	PPE	Personal Protective Equipment
MHC	Model Health Community	RCNN	Resource Centre Network Nepal
MHM	Menstrual Hygiene Management	RVT	Reservoir Tank
MICS	Multiple Indicator Cluster Survey	SBCC	Social Behavior Change Campaign
MIT	Massachusetts Institute of Technology	SDG	Sustainable Development Goals
MoU	Memorandum of Understanding	SODIS	Solar Disinfection
MuAN	Municipal Association of Nepal	SOP	Standard Operation Procedures
M-WASH-CC	Municipality Level WASH-Coordination Committee	SRHR	Sexual and Reproductive Health and Rights
NBSM	Nepal Bureau of Standard & Metrology	SuSanA	Sustainable Sanitation Alliance
NHCF	Nepali Heritage Charity Foundation	ToT	Training of Trainers
NMICS	Nepal Multiple Indicator Cluster Survey	UCLG/ASPAC	United Cities and Local Governments Asia - Pacific
NORM	No-cost mask distribution, Offering information, Reinforcement, Modeling	UNICEF	United Nations Children's Fund
NSS	Non-Sewered Sanitation	URL	Uniform Resource Locator
O&M	Operation & Maintenance	UV	Ultra Violet
ODF	Open Defecation Free	VMW	Village Maintenance Worker
OHS	Occupational Health and Safety Measures	WASH	Water Sanitation and Hygiene
OHSS	Occupational Health, Safety and Safeguarding	WSP	Water Safety Plan
PMIS	Project Management Information System	WSSDO	Water Supply and Sanitation Division Office
PoU	Point of Use	WSS	Water Supply Scheme
		WUC	Water User's Committee
		W-WASH-CC	Ward Water Sanitation Hygiene Coordination Committee
		WWTP	Waste Water Treatment Plant



ENPHO Project Location FY 2021/22



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