

eco-friendly living for sustainable planet



# 2014 ANNUAL REPORT



ENVIRONMENT & PUBLIC  
HEALTH ORGANIZATION



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## ACRONYMS

|                         |   |                   |  |
|-------------------------|---|-------------------|--|
| <b>ACCES Sanitation</b> | Accelerating City to City Exchange on Sustainable Sanitation  | <b>JWF</b>        | Japan Water Forum                                      |
| <b>BiFAN</b>            | Bio-Sand Filter Association- Nepal  | <b>KAF</b>        | Kanchan Arsenic Filter                                 |
| <b>BORDA</b>            | Bremen Overseas Research and Development Association  | <b>MHM</b>        | Menstrual Hygiene Management                           |
| <b>BSF</b>              | Bio-Sand Filter   | <b>MIT</b>        | Massachusetts Institute of Technology                  |
| <b>CAWST</b>            | Center for Affordable Water and Sanitation Technology   | <b>NMICS</b>      | Nepal Multiple Indicator Cluster Survey                |
| <b>CEN</b>              | Clean Energy Nepal  | <b>NRN</b>        | Non Resident Nepalese                                  |
| <b>CHP</b>              | Community Health Promotion  | <b>O&amp;M</b>    | Operation and Maintenance                              |
| <b>DIPECHO -VII</b>     | Enhancing the Health Sector Crisis Preparedness in the event of a High Intensity Earthquake in Kathmandu Valley | <b>ODF</b>        | Open Defecation Free                                   |
| <b>DEWATS</b>           | Decentralized Waste Water Treatment System  | <b>P/A</b>        | Presence Absence                                       |
| <b>DfID</b>             | Department for International Development  | <b>PCIA</b>       | Partnership for Clean Indoor Air                       |
| <b>DRR</b>              | Disaster Risk Reduction   | <b>PME</b>        | Planning Monitoring and Evaluation                     |
| <b>DWA</b>              | Dutch WASH Alliance   | <b>PoU</b>        | Point of Use   |
| <b>DWSS</b>             | Department of Water Supply and Sewerage   | <b>PPP</b>        | Public Private Partnership                             |
| <b>EAWAG</b>            | Swiss Federal Institute for Aquatic Science and Technology  | <b>R&amp;D</b>    | Research and Development                               |
| <b>ECOSAN</b>           | Ecological Sanitation   | <b>RUAF</b>       | Resource Center on Urban Agriculture and Food Security |
| <b>ENPHI</b>            | Environment and Public Health Institute   | <b>RWH</b>        | Rainwater Harvesting                                   |
| <b>ENPHO</b>            | Environment and Public Health Organization  | <b>RWHS</b>       | Rainwater Harvesting System                            |
| <b>EPD</b>              | Education Program Development   | <b>SACOSAN</b>    | South Asian Conference on Sanitation                   |
| <b>FIETS</b>            | Financial, Institutional Environmental, Technological and Social  | <b>SANDEC</b>     | Water and Sanitation in Developing Countries           |
| <b>FRC</b>              | Free Residual Chlorine  | <b>SMS</b>        | Support My School                                      |
| <b>FSM</b>              | Feecal Sludge Management  | <b>SODIS</b>      | Solar Water Disinfection                               |
| <b>FY</b>               | Fiscal Year   | <b>SPCC</b>       | Sagarmatha Pollution Control Committee                 |
| <b>GESI</b>             | Gender Equity and Social Inclusion  | <b>Su-Swastha</b> | School Led Safe Water Sanitation and Hygiene           |
| <b>GSF</b>              | Global Sanitation Fund  | <b>SWASH</b>      | Sustainable Water, Air, Sanitation and Hygiene         |
| <b>HHs</b>              | Households  | <b>SWASTHA</b>    | Safe Water, Sanitation and Hygiene for All             |
| <b>HR</b>               | Human Resource  | <b>UNICEF</b>     | United Nation Children Education Fund                  |
| <b>HSS</b>              | Higher Secondary School   | <b>USAID</b>      | United States Agency for International Development     |
| <b>HWTS</b>             | Household Water Treatment Option and Safe Storage   | <b>USSH4A</b>     | Urban Sustainable Sanitation and Hygiene for All       |
| <b>IEC</b>              | Information, Education and Communication  | <b>VDC</b>        | Village Development Committee                          |
| <b>IPTM</b>             | Institute for Professional Training and Management  | <b>WASH</b>       | Water, Sanitation and Hygiene                          |
| <b>ISO</b>              | International Organization for Standardization  | <b>WATSAN</b>     | Water and Sanitation                                   |
| <b>JICA</b>             | Japan International Cooperation Agency  | <b>WET-Center</b> | Water Expertise and Training Center                    |
| <b>JTA</b>              | Junior Technical Assistant  | <b>WSP</b>        | Water Safety Plan                                      |
|                         |   | <b>WSSCC</b>      | Water Supply and Sanitation Collaborative Council      |
|                         |   | <b>WWASHCC</b>    | Ward WASH Coordination Committee                       |

## FOREWORD ■ ■

The year 2013/14 has been also remarkable year for ENPHO as we continued to grow and expand our services. We further consolidated our efforts in areas such as WASH service delivery, DEWATS, Faecal Sludge Management, Water Quality, Climate Change and Energy. We joined hands with new partners such as The Bill & Melinda Gates Foundation to promote faecal sludge management in Kathmandu valley, Global Sanitation Fund/UN-Habitat and Bara Municipality to establish ourselves to promote and implement the concept of SWASH (Safe Water, Air, Sustainable Sanitation and Hygiene).

While we further consolidated our efforts in the areas such as Urban Disaster Risk Preparedness and Mitigation, Green Homes and Roof Top Agriculture. One of our major achievements in this year was the declaration of various VDCs open defecation free zone contributing towards the national targets and goal.

We have also revised HR, Financial and GESI policies and focused its limited

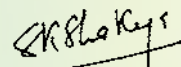
human and financial resources to bring the larger impact on the field of laboratory based research, service delivery and knowledge management programs in environment, public health and WASH sectors.

ENPHO has still lot of challenges though having amazing opportunities. Changes in strategies of partner organization and agencies, moving from service delivery model to business development model, turnover of existing experienced professionals and high expectation of successors are some of the major challenges of the organization. However, its goodwill and strong support of staffs are the major strengths that made achievement of the targets in the last fiscal year.

We would like to express our thanks to all ENPHO staff. We also express our gratitude to all Board and General Members, government agencies, donors and partners who provided their continuous moral and sensible support to ENPHO.



Prof. Dr. Kunjani Joshi  
Chairperson, ENPHO



Dr. Suman K. Shakya  
Executive Director, ENPHO

# ENPHO Project Locations FY 2013/14



## INTRODUCTION ■ ■

Established in 1990, ENPHO is a service-oriented, scientific, national Non-Governmental organization that envisages contributing in sustainable community development by combining research and actions through the integrated programs in the areas of environment and public health. ENPHO runs a government accredited laboratory and promotes eco-friendly technologies such as SODIS, ECOSAN toilets and waste water treatment through reed bed systems.

ENPHO develops and promotes integrated community based approaches endorsing safe water, sustainable sanitation, solid waste management, hygiene behavior and improving indoor air, and environmental and air quality monitoring to create healthy societies. Furthermore, knowledge-based education and advocacy campaigns help on achieving ENPHO's mission.

### Vision

Creating Eco-Societies

### Mission

Develop and promote appropriate technologies to enable societies become eco-friendly.

### Goal

To support environmental study, sustainable total sanitation, hygiene practices and safe drinking water contributing to meet the national target.

### Strategic Objectives

- To scale up promotion of environmental and sustainable sanitation systems
- To ensure improved access to safe drinking water
- To promote integrated water optimization technologies
- To enhance knowledge on hygiene behavior and sanitation practices
- To promote and implement WASH in emergencies

In order to achieve its goal of promoting eco-friendly societies, ENPHO has set the following strategies:

- Conduct research and develop appropriate technologies that are acceptable to local communities using local resources.
- Demonstrate eco-friendly technologies and practices.
- Develop and implement effective strategies to promote eco-friendly technologies.
- Implement community development programs.
- Network with partners for coordination and advocacy.
- Enhance organizational capacity.
- Develop local capacities through ENPHI.

ENPHO is governed by a General Assembly comprising of 92 members, which elects an Executive Board once every three years. The day to day operation of ENPHO is managed by a team of 87 staff out of which 44% is female.

## ENPHO'S MILESTONES

|      |  |
|------|--|
| 1990 | Water Quality Monitoring of Bagmati River and Kathmandu's Water Supply System  |
| 1990 | ENPHO Laboratory accredited by a Government body "Nepal Bureau of Standard and Metrology" under NEPLAS system based on ISO 17025 |
| 1992 | Initiated Air Quality Monitoring for the first time in Nepal within Kathmandu Valley   |
| 1994 | Production and distribution of PIYUSH® Chlorine Solution   |
| 1997 | Introduced Constructed Wetlands for Wastewater Treatment System in Nepal   |
| 2000 | Production of ENPHO test kit, Arsenic Testing and Mitigation activities initiated in the Terai                                   |
| 2001 | Initiated Research on SODIS and ECOSAN   |
| 2003 | Received Award for Kanchan™ Arsenic Filter at World Bank Development Marketplace   |
| 2005 | Environment Award from Ministry of Environment, Science & Technology   |
| 2006 | Carried out Country Environment Analysis for the World Bank  |
| 2007 | Initiation of Integrated Community based WATSAN Programme & Declaration of Open Defecation Free (ODF) at community level         |
| 2008 | Scaling up of waste water treatment system at municipal level and integration of bio-gas system                                  |
| 2009 | Received "Partnership for Clean Indoor Air (PCIA)" Award for Air Quality Improvement   |
| 2009 | Establishment of Environment & Public Health Institute (ENPHI) within ENPHO  |
| 2009 | Initiation of Paschim Paaila- A Youth Campaign against Diarrhea Epidemic in Western Nepal  |
| 2009 | Establishment of Nepal Node for Sustainable Sanitation   |
| 2010 | ODF declaration at VDC level   |
| 2011 | ECO-SAN poster attained the 1 <sup>st</sup> prize in pre-SACOSAN IV in Colombo, Sri-Lanka  |
| 2012 | Started working on urban disaster risk reduction with focus on emergency WASH  |
| 2013 | Promotion of Roof Top Agriculture as an adaptation for climate change  |
| 2014 | Faecal sludge management – service delivery, business model and private sector engagement – in Kathmandu valley                  |



## ACHIEVEMENTS ■ ■

ENPHO continued the efforts in the areas of safe water; sustainable sanitation; community based water, sanitation and hygiene and climate change adaptation and disaster risk preparedness through various projects and programs during the fiscal year 2013/14. Altogether, 26 projects were carried out in the aforementioned areas in which 8 projects have been successfully completed, 17 are being implemented and 1 project is under pipeline which will commence in the upcoming fiscal year.

The research to evaluate and assess the process and marketing strategies on HWTS promotion was successfully conducted at Su-Swastha project areas namely Ramghat, Mehelkuna, Sahare, Kalyan and Kaprichaur VDCs and Birendranagar Municipality Wards 1, 2 and 11.

The completed project was on development of comprehensive and effective Waste Management Plan and Public Guideline in Sagarmatha National Park and Buffer Zone for Sagarmatha Pollution Control Committee (SPCC).

Addressing the pertinent and growing issues of fecal sludge management (FSM) in rapid growing cities of Kathmandu valley, in the year 2014, ENPHO initiated the projects to provide effective service delivery in sustainable sanitation through private sector engagement and regulation of key policies related to FSM in the city. These projects have been designed to formulate comprehensive FSM strategy and business model with innovative PPP model.



The Support My School (SMS) campaign was expanded from 13 schools to 17 more schools in rural areas of Kathmandu valley and 3 schools in Chitwan district for enhancing environmental and WASH awareness among 10,677 school students (5,693 girls and 4,984 boys) and 536 school staff members.

In addition, establishment of Rain Water Harvesting System and groundwater recharge, improvement of school environment and sports facilities substantially contributed in creating healthy and active learning environment in the schools.

Likewise, ENPHO successfully completed the project on promoting roof top gardening as a potential adaptation option for Kathmandu's climate change strategies. The project succeeded in implementing productive rooftop farming with the use of harvesting rainwater and

recycling organic household waste in 150 households of Kathmandu.

Furthermore, it resulted for the development of Rooftop Farming Training Manual and a draft of policy paper on Rooftop Farming named "Integration of Urban Agriculture into broader city-wide plans/processes" for the Kathmandu Metropolitan city.

ENPHO WET-Center has been recognized as WASH training center among WASH implementer to provide professional capacity building services. Through this WET-Center, Biosand Filter Association (BiFAN) has been established to scale up BSF promotion in coordinated manner with decentralized approach in Nepal. As a part of action research, ENPHO has been partnering with University of Illinois, USA and CAWST to perform intensive study on performance of BSF for virus removal.



## ODF and SWASTHA Community Declaration by ENPHO

- Ward-11 of Birendranagar Municipality was declared as the 4<sup>th</sup> ODF ward of the municipality under Su-SWASTHA project with the financial support of USAID and EAWAG/SANDEC. 1587 households of the ward have access to proper sanitation facilities. (2<sup>nd</sup> September, 2013)
- The four clusters of Kalyan VDC of Surkhet district namely Labana, Chhitali, Kachurghari, and Thotri were declared as Su-SWASTHA communities under Su-SWASTHA project. Labana of Surkhet district is the 6<sup>th</sup> SWASTHA community in Nepal. (29<sup>th</sup> September, 2013)
- Maintada VDC of Surkhet district was declared as ODF VDC under Su-SWASTHA project. Among 2488 HHs of the VDC, 2220 HHs have permanent, 166 HHs have temporary and 102 HHs have shared latrines. It is the 27<sup>th</sup> ODF VDC of Surkhet. (30<sup>th</sup> October, 2013)
- Dapcha community of Sahare VDC was declared as Su-SWASTHA community of Surkhet district under Su-SWASTHA project. It is the 9<sup>th</sup> SWASTHA community of the district. 23 HHs of the cluster have sanitation facilities. (4<sup>th</sup> December, 2013)
- Ragsmale tole of Ramghat VDC Ward No. 7 was declared as SWASTHA community with the financial support of EAWAG and USAID. It is the 10<sup>th</sup> SWASTHA community of Surkhet district. 31 HHs of the cluster now have the permanent toilet. (5<sup>th</sup> December, 2013)
- Ward - 2 of Birendranagar Municipality, Surkhet was declared ODF under SWASH, USSH4A and Su-SWASTHA projects. (18<sup>th</sup> December, 2013)
- Wards - 8 and 9 of Birendranagar Municipality, Surkhet were declared ODF ward under SWASH and USSH4A projects. (14<sup>th</sup> March, 2014)
- Ward No. 1 of Birendranagar Municipality, Surkhet was declared as ODF ward under SWASH, USSH4A and Su-SWASTHA project. (28<sup>th</sup> March, 2014)
- Ward - 4 of Birendranagar Municipality, Surkhet was declared as ODF under SWASH project. (11<sup>th</sup> June, 2014)



## PROGRAM ■ ■

### Safe Water

In order to promote access to safe water to all, ENPHO is developing and promoting Point of Use (PoU) water treatment options and arsenic mitigation. Chlorination, one of the major PoU water treatment options, is being promoted by ENPHO with the production and distribution of Piyush and Piyush Plus which have been perceived as a convenient chlorination option for household use.

Awareness for importance of safe drinking water along with promotions through projects and social marketing through distributors boosted the sales of Piyush this year. Altogether, 221,584 units of Piyush and 34,662 units of Piyush Plus were sold. Piyush is still a seasonal product where the sale of product heighten during monsoon due to possibilities of epidemics.

ENPHO had joined hands with University of Cambridge, UK in December 2012 for the research study and development of Arsenic Biosensor. The research team of University of Cambridge and ENPHO developed the Arsenic Biosensor and soon the field test is going to be conducted in Nepal this year.

ENPHO successfully carried out the project to assess the processes and structures set up on the Su-Swastha project areas for marketing of HWTS products with the support of EAWAG/Sandec.

Kanchan Arsenic Filter (KAF) was developed by MIT and ENPHO in 2003. Since then thousands of KAF have been installed in arsenic affected areas by various agencies. However, after 2005, comprehensive study on efficiency



and sustainability of KAF has not been performed. Hence, with the objective of assessing the current performance and use of KAF for identifying major problems associated with O&M of KAF and deciding on improvement of this system along with its large scale promotion, ENPHO, in July 2014, started the project on “Assessment of KAF in Nawalparasi district” with the support of JICA and DWSS. In this project, household survey will be conducted to identify current status and problems at 1000 households using KAF in the district.

Similarly, ENPHO with the support from MIT and CAWST succeeded to receive EXPO live partnership fund announced by Dubai EXPO 2020. Under this grant category of opportunity, ENPHO will be implementing the project to improve the health of school students by providing arsenic and pathogens free safe drinking water through installation of large KAF at 20 selected schools in Nepal. At least 15,000 school students from 20 schools have been targeted to benefit by this project.

### Sustainable Sanitation

ENPHO believes on promoting sustainable sanitation systems that are economically viable, socially acceptable and technically and institutionally appropriate; and protect the environment and natural resources. After a decade of promotion of Open defecation free zone from community to municipality and VDC level, the national target of access to sanitation is on verge of meeting the target. Now the post-ODF and sustainable sanitation approaches

are being thought globally. For this new shift in sustainable sanitation globally, ENPHO has started working on sectors such as productive re-use and fecal sludge management in urban as well as rural areas of the country.

ENPHO is involved in project to provide services and capacity building for wastewater treatment as well as improving access to sustainable sanitation infrastructure in densely populated areas with the support of BORDA and CDD Society. Similarly, ENPHO has been working with SOMNEED International and SOMNEED Nepal on wastewater management in Kathmandu by implementing DEWATS system. One DEWATS system is under construction at *Deshe* village in Gokarna area.

Productive Reuse Project with the support of RUAF Foundation, the Netherlands is being implemented in urban settlements in Birendranagar Municipality and technical schools teaching JTA students, Surkhet district in order to promote safe and productive re-use of wastes (solid and liquid) for food production. Also, research study has been carried out with use of



human urine on agricultural production and income generation based on FIETS framework of WASH.

The Government of Nepal has set a target of achieving universal access to sanitation by 2017. Many agencies are promoting various sanitation systems but proper planning of FSM is often neglected which is causing severe adverse impact in the environment. Within this background, ENPHO with the support of The Bill and Melinda Gates Foundation, DfID, Lalitpur Municipality Office and One Planet Solutions Pvt. Ltd. is implementing the project to provide safe and improved access to sustainable sanitation through private sector engagement and regulation of key policies to FSM in Kathmandu Valley. Similarly, ENPHO is also conducting the project to assess the current state of FSM in Panauti Municipality with the support of Water Aid Nepal and Panauti Municipality Office.

### Community Based Water, Sanitation and Hygiene

ENPHO has been implementing projects with the key approach of community based water, sanitation and hygiene in communities, municipalities and schools for safe water, sustainable sanitation and promotion of hygienic behaviours. With this approach, Deubhumi Baluwa Drinking Water and Sanitation Project is being conducted by ENPHO with the support of ASIA Onlus. This project is working in two components namely WASH component in Deubhumi Baluwa VDC and education component in 21 different schools of Deubhumi Baluwa, Panchkhal VDC and Dhulikhel Municipality.

Jhaukhel WASH Improvement Project, a community based WASH project was implemented in Jhaukhel VDC of Bhaktapur district with the support of Water Aid Nepal and Jhaukhel Village Development Committee with the aim to upgrade the existing water and sanitation situation in the VDC. The VDC has been declared as an ODF zone on 31<sup>st</sup> March, 2013. In order to ensure sustainability of ODF declaration, the post-monitoring (post - ODF) activities are now being carried out.



Support My School- SMS campaign was successfully completed contributing to enhance environmental and WASH awareness including RWHS and groundwater recharge among 10,677 school students and 536 school staff members. In addition, improvement of school environment and sports facilities substantially contributed in creating healthy and active learning environment in 13 public schools of Kathmandu valley. The school students were provided with improved access to safe drinking water, sanitation and better learning environment. This project was a joint effort of ENPHO

and CEN with the financial support from UN-Habitat and Coca Cola Company.

With successful demonstration of SMS project in the year 2013, ENPHO further with the support from UN-Habitat and Coca Cola Company and in partnership with Teach for Nepal and YuvaSamaj Nepal is going to implement SMS campaign 2014 in 20 selected schools in Lalitpur and Chitwan districts. About 10,000 school students and teachers will be benefitted from this project.

In order to support the Government's plan for achieving total sanitation in Surkhet district by 2015, "School Led Safe Water, Sanitation and Hygiene Improvement in Mid-Western Nepal (Su-Swastha)" Project was designed to demonstrate an integrated community based WASH campaign to achieve SWASTHA (Safe Water, Sanitation and Hygiene for All) communities using schools as entry point in 5 VDCs namely Ramghat, Kalyan, Mehelkuna, Sahare and Kaprichaur and 3 Wards namely Wards 1, 2 and 11 of



Birendranagar Municipality, Surkhet district. The project was successfully carried out with the support of USAID and EAWAG/SANDEC along with declaration of 10 Su-Swastha communities, 6 ODF VDCs and 3 ODF Wards of the municipality benefitting 39,391 people from software intervention programs, 47,000 people from hardware intervention programs, and approximately 13,828 students and teachers of 58 schools of project areas from WASH interventions. 29 ECOSAN toilets, 4 ECOSAN toilets with biogas attached and 332 biogas attached toilets were also constructed. Approximately, 48,346 people of the ODF declared VDCs and wards of Municipality benefitted from improved sanitation.

ENPHO with the support of Helping Hands and NRN Canada successfully implemented "Declare Maintada VDC as ODF Zone" Project whereby the VDC has been declared as 27<sup>th</sup> ODF VDC on 30<sup>th</sup> October, 2013 in collaboration with Su-Swastha Project. 998 Sulav and 104 shared improved latrines were constructed. Altogether, 44,097 individuals benefitted from the project intervention.

ENPHO successfully carried out USSH4A Phase I project with the support of SNV Nepal at Wards 1, 2, 3, 7, 9 and 11 of Birendranagar Municipality in order to support promotion of sustainable sanitation and hygiene. Wards 2, 7 and 11 were declared as ODF along with 18,091 local people having access to improved sanitation and 1859 students, teachers and WWASHCC members having access to hand washing facilities. USSH4A Phase II project is being extended at Wards 1, 4, 5, 6, 8, 9

and 10 of Birendranagar Municipality which focuses to improve the health and quality of life by increasing access to sustainable sanitation and hygiene in the urban area.

The SWASH project with the support of WASTE-the Netherlands, Dutch WASH Alliance is being implemented at Birendranagar Municipality to improve the WASH facilities through FIETS approach. The ultimate goal of the project is to declare the municipality as ODF zone and improve access to safe drinking water, sanitation options and hygienic behavior.



ENPHO with the support of Rain Foundation and in close coordination with Birendranagar Municipality and Neta VDC is implementing Rain Water Harvesting Project with demonstration of RWH at Birendranagar Municipality, Janajyotee HSS of Kunathari VDC and 30 HH level RWH system with ferro cement tank at Neta VDC in order to demonstrate the multiple use of rainwater harvesting system.

Sustainable Water, Air, Sanitation and Hygiene (SWASH) project is a community

based WASH project being implemented at Nagarkot since April 2013 with the support of Water Aid Nepal. SWASH, with integrated approach aim to promote healthy community and provide safe drinking water, improved cooking stoves at household level to improve indoor air quality, improve sanitation situation and facility and develop hygienic behavior to develop healthy environment. The project also demonstrates low cost sustainable sanitation options and ties up sanitation to agriculture and livelihood. Nagarkot VDC has been declared ODF zone on 5<sup>th</sup> July, 2013.

ENPHO with the support of The Asia Foundation published an “Awareness Raising Toolkit” in August 2012 to benefit development organizations, local activists and schools by sharing the challenges and lessons learned in conducting various public awareness campaigns and mobilizing communities to combat local environmental threats. In order to disseminate the toolkit widely and make improvements where necessary, ENPHO conducted the project “Implementation of Awareness Raising Toolkit at Urban Areas of Nepal” since October 2012 with the support of The Asia Foundation and in close collaboration with CEN, Alliance for Sustainable Development, Society for Urban Poor, Smart Paani and Paschim Paaila. The project supported on the publication of RECTOR book to encourage the selected partner organizations on implementing the best practices outlined in the toolkit through various awareness activities.

Green Homes or Sustainable Housing is an approach that includes household



systems that reduce pressure on natural resources and carbon emissions, thus resulting in human well-being, social equity, and green economy. Adopting this approach, ENPHO with the support of UN-Habitat is implementing “Green Homes- Promoting Sustainable Housing in Nepal” project in three rapidly urbanized municipalities – Lalitpur, Pokhara and Dharan. The project intends to promote sustainable housing technologies and services that contributes towards the mitigation of climate change and reduction of poverty through the creation of green jobs and a move towards a green economy.

The Government of Nepal has set the national target of achieving ODF status by 2017. With this aim, the ODF campaign has been intensified at all levels with sector coordination, capacity building and community mobilization

approach. To support and accelerate this initiative, the Water Supply and Sanitation Collaborative Council (WSSCC) has been providing fund to UN-Habitat through Global Sanitation Fund programme. After successful implementation of GSF programme in 6 municipalities and 6 districts, it has been scaled up to implement activities in 8 Terai districts which are among the lowest sanitation coverage districts. Bara is one of those 8 districts where the sanitation coverage is about 27%. ENPHO with the support of UN-Habitat has been working together with Nepal Red Cross Society, District Chapter Bara to implement GSF project activities in 15 selected VDCs. At the end of the project, at least 8 VDCs will be declared ODF and sanitation movement will be accelerated through sector coordination and social mobilization.



## Climate Change Adaptation and Disaster Risk Preparedness

To reduce suffering and loss of life following a major earthquake in Nepal, ENPHO with the support of UK Aid, Oxfam GB Nepal and Lalitpur Sub-Metropolitan City has been implementing Urban WASH Preparedness and Community Based Disaster Risk Reduction project.

For this, disaster management committee has been formulated to implement the activities planned by the project in the communities where municipal ward secretary will lead from the front. The skilled volunteers will be mobilized during emergency who have been provided with trainings such as basic first aid, light search and rescue and WASH during the project period.

ENPHO has successfully completed the project on “Promoting Rooftop Gardening as a Potential Adaptation Option for

Kathmandu’s Climate Change Strategies” implementing rooftop farming in 150 households of Kathmandu Metropolitan City. The project was carried out with the support of RUAF Foundation, the Netherlands, UN-Habitat and Kathmandu Metropolitan City.

Enhancing the health sector crisis preparedness in the event of a high intensity earthquake in Kathmandu Valley (DIPECHO-VII) project, implemented with the support of European Commission and Oxfam GB Nepal, contributed towards prevention, avoidable loss of life and disabling consequences through effective mass casualty management system.

The project has supported to enhance capacities in terms of WASH either structurally or non-structurally of the health facilities placed in Kathmandu valley so as to minimize the mass casualties at the time of emergency like Earthquake.



## ENPHO LABORATORY

ENPHO Laboratory has been providing its services since the inception of this organization in 1990. The major objective of the unit is to conduct environmental quality testing for scientific research or monitoring activities for education and advocacy purposes. This laboratory is accredited by a government body -Nepal Bureau of Standard and Metrology, under NEPLAS based on ISO 17025 and has been providing services for testing water, air, soil and food quality.

Research and Development laboratory unit of ENPHO is well equipped with sophisticated instruments like Atomic Absorption Spectrophotometer (AAS), Ultra Violet (UV) spectrophotometer, Double Distillation Unit, four digital electronic balance, pH meter, electrical

conductivity meters, automatic digestion and distillation units, and various types of oven, furnace for physical and chemical analysis. Furthermore, it is equipped with several filtration units (Millipore and DelAgua units), different range of incubators, autoclave and refrigerators for microbiological analysis.

Besides analysis, this unit of ENPHO has developed various types of water testing kits and water purifying kits like Water Quality Field test kit, Arsenic test kit, Free Residual Chlorine (FRC) kit, Coliform Presence/Absence Vial (P/A) vial, and chlorination solutions like Piyush and Piyush Plus.

Recently, laboratory unit has developed an easy-to-handle, portable, low cost and reusable incubator for microbiological water quality analysis in field. This incubator can be a substitute for electrical incubators in areas which lack access to electricity or in places where continuous access to electricity may not be convenient.

The incubator, named as “Body Belt Incubator”, is worn round the waist and uses the body heat in order to maintain a relatively constant incubation condition (i.e.  $>25$  and  $<40^{\circ}\text{C}$ ), regardless of ambient temperature. This incubator has been used in Nepal Multiple Indicator Cluster Survey (NMICS) 2014, an international household





survey program developed by UNICEF and conducted in Nepal in collaboration with Central Bureau of Statistics, Nepal.

This year, ENPHO laboratory has also been working on development of low cost and easy-to-use Food Adulteration Test kit to test adulteration in commonly used food products like turmeric, red chilly, tea, sugar, butter, milk, cheese, sweets, lentils, gram flour, green vegetables, cooking oil, mustard oil, honey, jam, jelly, pepper, clove, coffee etc. The test kit detects different adulterants like starch (in sweets), metanil yellow (turmeric), animal fat (ghee), Rhodamine B. color (in red chilly) etc. depending upon the food products under test. The kit under development is a small portable kit which can test upto 100 samples and the reagents can be refilled as per requirement. The kit will be a useful tool to test for impurities by consumers which can be used after simple orientation.

During the FY 2013/14, 1821 samples were analyzed on drinking water, 396 on waste water, 16 on soil and 57 on urine, food, feed and other samples.



During the FY 2013/2014 ENPHO laboratory has been involved in following projects:

- Technical Assistance and Quality Assurance of water testing activities in Nepal Multiple Indicator Cluster Survey 2014 for UNICEF.
- Monitoring performance of large bio-sand filters installed in different schools in Bardiya district by Nepal Red-Cross Society.
- Involved as resource persons for various trainings related to water quality and its analysis conducted by different projects of ENPHO and other organizations like OXFAM and LUMANTI.
- Besides, ENPHO laboratory has also carried out seasonal monitoring of Bagmati River quality during pre-monsoon, monsoon and post-monsoon seasons as it has been done since last three years under its own initiation.
- R & D lab Unit of ENPHO has also been supporting personal research (thesis) of students from Tribhuwan and Kathmandu Universities through its laboratory services.

## ENPHI

ENPHI, a learning platform of ENPHO, designs and delivers professional training programmes along with providing innovative tools for capacity building at community and organizational level. The programmes are focused for professionals and decision makers so that they are able to bring about changes through proper and effective delivery of environmental services at local and national level.

### Develop capacity of local entrepreneurs and mason at district and VDC level

This project designed to build the capacity of local entrepreneurs and masons in order to raise awareness, share information, build sanitation facilities and provide service in the five GSF program district to cater demand of sanitation facilities at household



level has been completed. The program districts are Arghakhanchi, Bajura, Bardiya, Sindhupalchowk and Sunsari.

250 locals were trained on skills for construction and maintenance of sanitation facilities, entrepreneurship, manufacturing and marketing of sanitation products and services. The project has been implemented with the support of UN-Habitat/Global Sanitation Fund, Institute for Professional Training and Management (IPTM) Nepal.

### ENPHO Water Expertise and Training Center (ENPHO WET-Center)

WET-Center was established by ENPHO in 2009 with the financial and technical support from Center for Affordable Water and Sanitation Technology (CAWST). The overall goal of this project is to minimize the gap between WASH implementers and target beneficiaries by providing knowledge and skill on various WASH technologies through training, technical support, consultation, monitoring & evaluation and follow up programs. This would further enable the community to adopt and get benefit from technologies and concepts. A wide variety of training packages including training manuals, modules, IEC materials have been developed as a part of Education Program Development (EPD) activity.

In addition, regular consulting support, monitoring and follow up visits have been



done to biosand filter local entrepreneurs to support in business promotion including problem rectifying and quality controlling. District level coordination meetings, special classes, exhibitions and other WASH awareness activities have been conducted to create awareness on general public and implementers and create demand for WASH technologies including BSF.

Altogether, 20 active Biosand Filter local entrepreneurs have been promoting filters in their district through small scale business to provide improved access to safe drinking water. Approximately, 18,000 Biosand Filters have been distributed by these Biosand Filter entrepreneurs in more than 12 districts. Similarly, well designed and complete training packages on Household Water Treatment Option and Safe Storage (HWTS), Community Health Promotion (CHP) and Biosand Filter (BSF) Construction have been developed by ENPHO WET-Center.

### Organizational Development

Dedicated, strong and committed staff members are the main assets of ENPHO in achieving its objectives and contributing for

enhancing the organizational development. Hence, the organization highly promotes the capacity building of staff and their participation at various programs both at National and International levels.

In this fiscal year, ENPHO staff participated in 'Light Search and Rescue Training', 'First Aid Training', 'Emergency Preparedness and Team Building Training', and 'Three Days Training on Gender Equity and Social Inclusion (GESI)'. Besides, they have also participated in various trainings, workshops, programs, orientations and events. Senior and most relevant staff members have also participated and presented papers in programs invited by International Partners and Donors with further increasing our opportunities. ENPHO has also been providing opportunities to National and International students to get knowledge and experiences in various projects of ENPHO by mobilizing them as volunteers and interns. In the fiscal year 2013/14, 4 national and 2 International interns and volunteers worked with ENPHO.

Altogether, 47 trainings/workshops and 43 programs/events have been organized during the fiscal year with the support of various projects.



## KNOWLEDGE MANAGEMENT AND ADVOCACY ■ ■

ENPHO delivers knowledge-based education and organizes various advocacy campaigns. These core activities are handled by ENPHO Resource Center which is furthermore responsible to collect, properly document and effectively disseminate the information through campaigns on various environment and public health issues.

### Knowledge Management

ENPHO website [www.enpho.org](http://www.enpho.org) has been revived with fresher, new look and design with new features too. The biggest change in the website is the homepage along with easier and quicker searching features. ENPHO hopes that these changes in the website will make it more user friendly



and benefit the user with easy access to information. The website with new design has evolved as improvements that can be made in the website have been sought out and to meet the changing needs.

Resource Center collected, produced and disseminated various IEC materials on different program and technology of ENPHO to fulfill the requirements of various target audiences. During the fiscal year 2013/14, IEC materials such as reports, brochures, posters, flex and hoarding boards, flyers, fact sheets, training manuals, flip charts, calendar, leaflets were published and produced in coordination with various projects. ENPHO also publishes its monthly E-Bulletin to highlight updates on various activities.

ENPHO Paschim Paaila organized 7 regular interaction programs “WASH Forum” related to water, sanitation and hygiene; disasters/epidemics and other various health and environmental issues for knowledge sharing and advocacy. The forum tries to address the voices of diversified youth communities and others.

### Advocacy

ENPHO Resource Center is also involved in advocacy campaigns related to celebration days such as World Water Day, World Environment Day and National Environment and Sanitation

Week. ENPHO also participated in various events, exhibitions and campaigns to disseminate, advocate and share WASH activities through different projects.

The project on Construction of Biosand Filter, training on homemade sanitary pad preparation and Menstrual Hygiene Management (MHM) has also been successfully completed with the support of Japan Water Forum at Baluwa Secondary

School, Baluwapati VDC, Kavre. Biosand Filter of capacity 750 liters and child friendly hand washing platform with 4 tap fittings were installed benefitting 500 students and 100 households. Likewise, training on preparation of homemade sanitary pad and MHM for girl students was provided, along with management of resting room during menstrual complications for 200 girl students and teachers.



## PLANNING, MONITORING AND EVALUATION ■ ■

### Revision of ENPHO Contingency Plan

ENPHO Contingency Plan aims to ensure that ENPHO, as a member of WASH cluster, is able to respond with maximum efficacy to water, sanitation and hygiene needs to address the disasters such as

earthquake, flood, landslide, drought and fire that occur in Nepal. ENPHO has revised this plan in April 2014 to make it more precise on what ENPHO could contribute for mainstreaming risk reduction and what can be done on WASH sector during major earthquake.



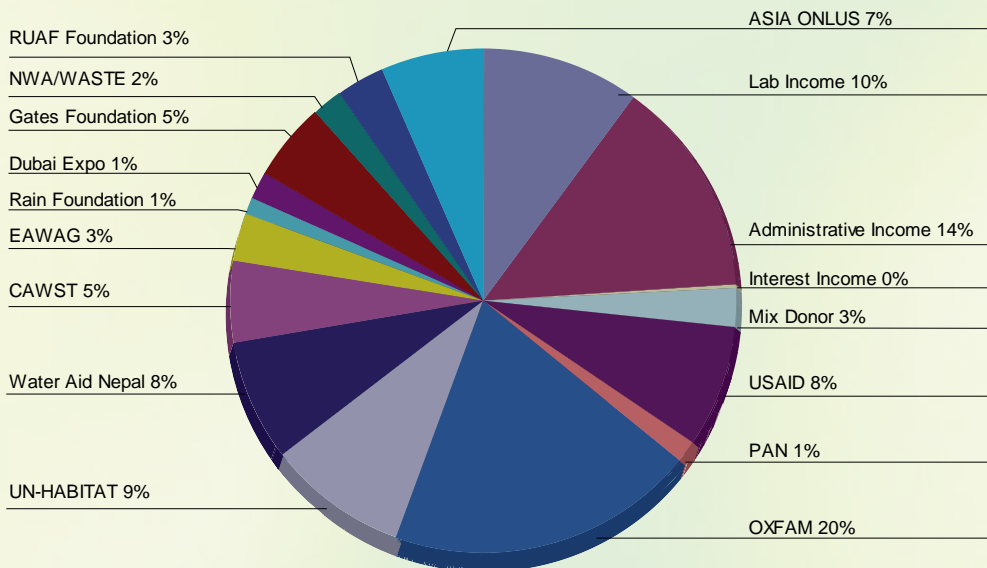
# FINANCIAL MANAGEMENT

## Income

ENPHO's total income for the year 2013/14 was NRs. 11,09,45,864.65 (US\$ 11,56,891.18, conversion 1 USD = NRs. 95.90). This is a 10.85% decrease compared to the total income of 2012/13. The projects' contribution to ENPHO's annual income, in year 2012/13, 20% of total income was from Urban Disaster Risk Reduction Projects funded by OXFAM GB Nepal and another 14% of total income from administrative income. Similarly 9% of total income came from project

supported by UN-Habitat, 8% from Water Aid Nepal supported projects in Bhaktapur District and USAID supported project in Surkhet District.

Out of ENPHO's annual income, 10% to the total income came from ENPHO Research Laboratory projects, services and PIYUSH production provided in the year 2013/14. The overall distribution of annual income is presented in the following picture.

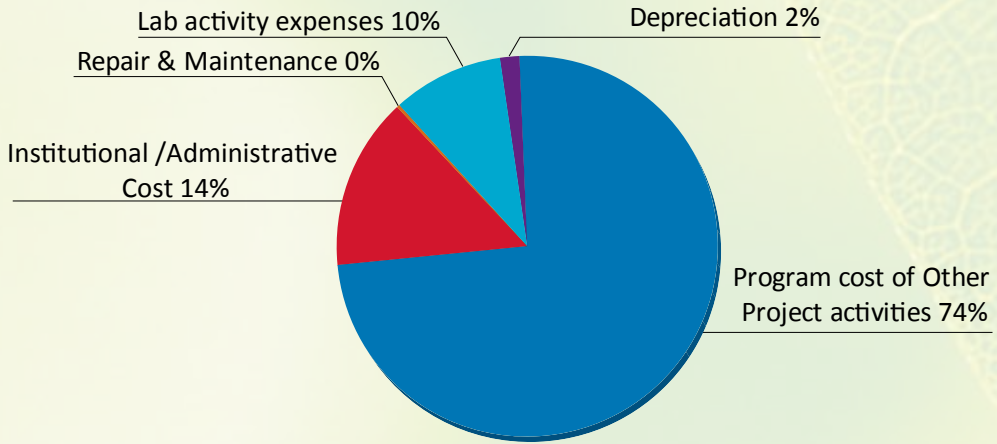


Income for Fiscal Year 2013/14

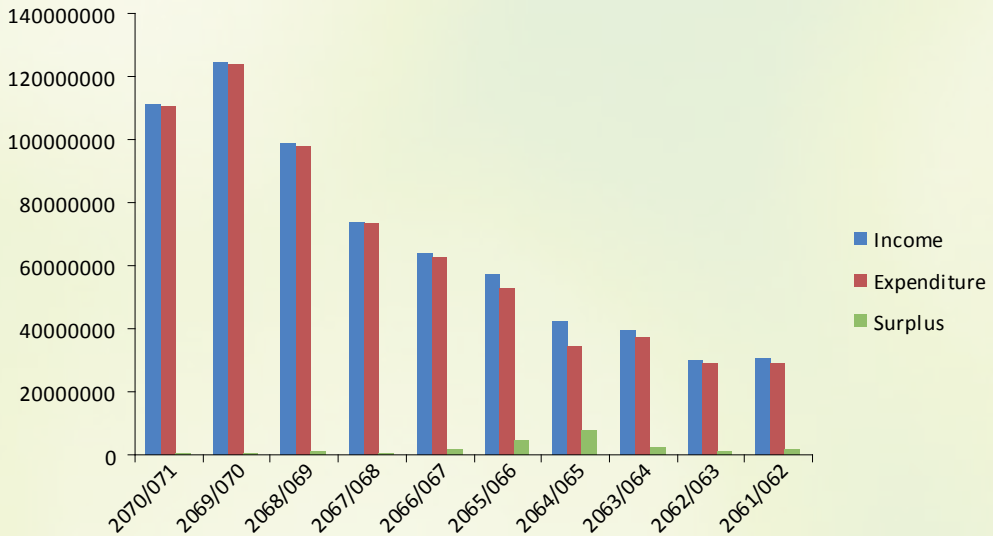
### Expenditure

ENPHO's total expenditure for the year 2013/14 was NRs. 110,532,128.90 (US\$ 1,152,576.94, conversion 1 USD = NRs. 95.90). This is a decrease of 10.85% compared to the previous year's expenditure. Of the total expenditure, 74% was spent on various on-going

and completed programmes, while 14% was spent on administration expenses. The cost amounted for operation of ENPHO Research Laboratory services and PIYUSH production was 10% of the total expenditure. The overall distribution of annual expenditure is presented in the following picture.



Expenditure for Fiscal Year 2013/14



Trend in Income and Expenditure over the Past 10 Years

# FINANCIAL AUDIT REPORT ■ ■

**S. Dahal & Associates**  
Chartered Accountants

Thepagaun, Newbaneshwor, Kathmandu  
House No. 190, First Floor, Mob: 9851055815  
Tel: 01-4486688, 4245388  
E-mail: sudipdahal1983@gmail.com  
sdpdhi@yahoo.co.in

## Independent Auditors' Report On

### Financial Statements of Environment and Public Health Organization (ENPHO)

We have audited the accompanying financial statements of Environment and Public Health Organization (ENPHO) as on Asadh 32, 2071. The financial statements are the responsibility of the management of ENPHO. Our responsibility is to express an opinion on these statements based on our audit.

We conducted our audit of the financial statements in accordance with generally accepted standards and applicable national standards. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from any material misstatement. An audit includes examining on a test basis, evidence supporting the amounts and disclosures in financial statements. An audit also includes assessing the accounting principles used and significant estimate made by the management, as well as evaluating the overall presentation of the financial statements. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, and to the best of our information and explanation given to us, the financial statements referred to above read with and subject to the notes thereon and accompanying memorandum of examination, present fairly. In all material aspects, the assets and fund balances as of Asadh 32, 2071 and the fund received and expenditures incurred during the period then ended.

  
CA. Sudip Dahal  
S. Dahal & Associates  
Chartered Accountants



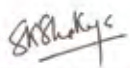
Date: 17/05/2071  
Place: Kathmandu, Nepal

Environment and Public Health Organization  
 New Baneshwor, Kathmandu  
 Balance Sheet  
 As on 32 Ashad 2071  
 As on 16 July 2014


| Particulars  | Schedule | Amount               | Amount               |
|--|----------|----------------------|----------------------|
|  |          | 2070/71              | 2069/70              |
| <b>A. Sources of Fund</b>                            |          |                      |                      |
| Capital Fund Balance                                 |          | 1,070,081.30         | 1,070,081.30         |
| Revaluation Surplus Fund                             |          | 6,158,757.12         | 6,158,757.12         |
| Surplus Fund   | 1        | 19,376,056.17        | 22,966,129.24        |
| <b>Total Sources of Fund</b>                         |          | <b>26,604,894.59</b> | <b>30,194,967.66</b> |
| <b>Applications of Fund</b>                          |          |                      |                      |
| <b>B. Fixed Assets</b>                               | 2        | 11,653,584.79        | 11,989,565.61        |
| <b>C. Current Assets, Loans &amp; Advances</b>       |          |                      |                      |
| Program Advance and receivables                      | 3        | 5,529,849.06         | 10,775,853.90        |
| Other advance and Deposit                            | 4        | 5,135,229.10         | 5,785,226.57         |
| Project Advances/Receivables of Other program        | 5        | 10,305,941.60        | 8,749,455.92         |
| Cash & Bank balance of Project Accounts              | 6        | 18,655,025.78        | 13,018,827.63        |
| Cash & Bank Balance of ENPHO                         | 7        | 13,369,127.70        | 8,704,077.69         |
|  |          | <b>52,995,173.24</b> | <b>47,013,441.71</b> |
| <b>D. Less: Current Liabilities &amp; Provisions</b> |          |                      |                      |
| Liabilities for on going Other Programs              | 8        | 21,179,025.59        | 14,657,602.76        |
| Sundry Creditors                                     | 9        | 7,888,342.96         | 7,697,341.94         |
| Liabilities for on going Programs of Donors (Fund)   | 10       | 8,976,494.89         | 6,453,094.96         |
|  |          | <b>38,043,863.44</b> | <b>28,808,039.66</b> |
| <b>E. Working Capital (C-D)</b>                      |          | <b>14,951,309.80</b> | <b>18,205,402.05</b> |
| <b>Total Application of Fund (B+E)</b>               |          | <b>26,604,894.59</b> | <b>30,194,967.66</b> |
| Notes to Accounts                                    | 21       | 0.00                 | -                    |

Schedules 1 to 21 form an integral part of this statement

  
 Niranjana Pradhan  
 Admin & Finance Manager

  
 Dr. Suman K. Shakya  
 Executive Director

As per our report of even date

  
 Pratap K. Acharya  
 Treasurer

  
 Dr. Kishani Joshi  
 Chairperson

  
 CA. Sudip Dahal  
 S. Dahal & Associates  
 Chartered Accountants

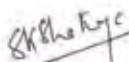
Date: 17/05/2071  
 Place: Kathmandu, Nepal

**Environment and Public Health Organization**  
**New Baneshwor, Kathmandu**  
**Income Statement**  
**for the Year ended 32 Ashad 2071**  
**for the Year ended 18 July 2014**

| Particulars                               | Schedule | Amount                | Amount                |
|---|----------|-----------------------|-----------------------|
|   |          | 2070/71               | 2069/70               |
| <b>Income</b>                             |          |                       |                       |
| Remittances From Donors                   | 11       | 4,384,339.49          | 6,236,865.48          |
| Remittances From other Project Activities | 12       | 79,850,147.44         | 90,285,297.35         |
| Income from Activities                    | 13       | 26,398,661.43         | 27,798,422.78         |
| Income from Other Activities              | 14       | 312,716.29            | 123,555.88            |
|   |          | <b>110,945,864.65</b> | <b>124,444,141.47</b> |
| <b>Expenditure</b>                        |          |                       |                       |
| Program Cost                              | 15       | 2,549,709.51          | 4,812,405.55          |
| Program cost of Other Project activities  | 16       | 79,491,602.73         | 91,956,979.94         |
| Institutional / Administrative Cost       | 17       | 15,770,341.07         | 16,599,013.93         |
| Repair & Maintenance                      | 18       | 386,039.77            | 581,464.25            |
| Lab activity expenses                     | 19       | 6,452,629.30          | 6,819,381.33          |
| Expenditure incurred to projects          | 20       | 2,114,817.03          | 1,380,499.00          |
| Depreciation                              | 2        | 1,786,989.49          | 1,819,364.60          |
|   |          | <b>110,532,128.90</b> | <b>123,969,108.60</b> |
| <b>Excess of Income over Expenditure</b>  |          | <b>413,735.75</b>     | <b>475,032.87</b>     |

Schedules 1 to 21 form an integral part of this statement

  
 .....  
 Niranjan Pradhan  
 Admin & Finance Manager

  
 .....  
 Dr. Suman K. Shakya  
 Executive Director

As per our report of even date

  
 .....  
 Pratap K. Acharya  
 Treasurer

  
 .....  
 Dr. Kunjani Joshi  
 Chairperson



  
 .....  
 CA. Sudip Dahal  
 S. Dahal & Associates  
 Chartered Accountants




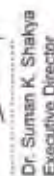
Date: 17/05/2071  
 Place: Kathmandu, Nepal

**Environment and Public Health Organization**  
 New Baneshwor, Kathmandu  
**Receipt and Payment Statement**  
 for the year ended 31 Ashad 2071  
 for the year ended 16 July 2014

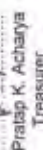
| Receipt                                      | Schedule | Amount<br>2070/71     | Amount<br>2069/70     | Payment                              | Schedule | Amount<br>2070/71     | Amount<br>2069/70     |
|--|----------|-----------------------|-----------------------|--------------------------------------|----------|-----------------------|-----------------------|
| Op. Cash & Bank Balance (ENPHO)              | 7        | 8,704,077.69          | 11,362,480.97         | Op. Liability of donors              | 10       | 6,453,094.96          | 4,959,908.16          |
| Op. Cash & Bank ( Project Acct.)             | 8        | 13,018,827.63         | 17,023,922.09         | Op. Liability of other program       | 8        | 14,657,602.76         | 17,020,638.90         |
| Opening Staff Advances                       |          | -                     | -                     | Op. Sundry Creditors                 | 9        | 7,697,341.94          | 8,381,668.18          |
| Op. Program Advances & Receivables           | 3        | 10,775,853.90         | 2,969,953.25          | Lab analysis & production Expenses   | 19       | 8,452,629.30          | 6,819,381.33          |
| Op. Project Adv. Receivable                  | 5        | 8,749,455.92          | 8,655,524.31          | Purchase of Non-Expendable Equipment | 2        | 1,431,008.67          | 1,374,950.00          |
| Op. Other Advance and Deposit                | 4        | 5,765,228.57          | 7,587,005.20          | Administrative Expenses              | 17       | 15,770,341.07         | 16,599,013.93         |
| Fund Received from Projects                  | 11       | 4,384,336.46          | 6,235,865.46          | Repair & Maintenance                 | 18       | 386,039.77            | 581,464.25            |
| Fund from Other Project Activities           | 12       | 79,850,147.44         | 90,285,297.35         | Project Expenses                     | 15       | 2,549,709.51          | 4,812,405.55          |
| Income From Activities                       | 13       | 26,398,651.43         | 27,758,422.78         | Other Project Activities Exps.       | 16       | 79,461,602.73         | 91,956,979.94         |
| Interest earned From Other Activities        | 14       | 312,716.26            | 123,365.88            | Expenditure incurred to Project      | 20       | 2,114,617.03          | 1,390,499.00          |
| Disposal of Non-Expendable Equipment         | 2        | -                     | 19,505.00             | Program Advance & Receivables        | 3        | 5,529,949.06          | 10,775,853.90         |
| Closing Sundry Creditors                     | 9        | 7,888,342.96          | 7,697,341.94          | Other Receivable & Deposit           | 4        | 5,195,229.10          | 5,765,228.57          |
| Closing Liability for Other Program          | 8        | 21,179,025.59         | 14,657,602.76         | Project Advance Receivable of other  | 5        | 10,305,941.80         | 8,749,485.92          |
| Closing Liability for Ongoing Program (Fund) | 10       | 8,976,484.89          | 6,453,094.96          | Cash & Bank Balances / ENPHO         | 7        | 13,369,127.70         | 8,704,077.69          |
|  |          |                       |                       | Cash & Bank Balances (Project)       | 6        | 18,655,025.78         | 13,018,827.63         |
|  |          |                       |                       | Advance Wision off                   | 1B       | 4,003,609.82          |                       |
| <b>Total</b>                                 |          | <b>196,003,169.80</b> | <b>200,900,551.95</b> | <b>Total</b>                         |          | <b>196,003,169.80</b> | <b>200,900,551.95</b> |

Notes to Account: Schedules 1 to 20 form an integral part of this statement

  
 Niranjan Pradhan  
 Admin & Finance Manager

  
 Dr. Suman K. Shakyia  
 Executive Director



  
 Pratap K. Acharya  
 Treasurer

Date: 17/05/2071  
 Place: Kathmandu, Nepal

As per our report of even date  
  
 CA. Sudip Dahal  
 S. Dahal & Associates  
 Chartered Accountants

Environment and Public Health Organization (ENPHO)  
 New Baneswar, Kathmandu  
 For the period ended 31  
 Achad 2071

Fixed Assets / Non-Expendable  
 2070/71  
 16 July 2014

Schedule 2

| Particulars  | Nos. | Historical cost      | Gross Block<br>Addition during the<br>year | Disposal during the<br>year | Total value as of<br>31 Achad 071 | Accumulated Dep.<br>upto 31 Achad<br>2070 | Net Book Value       | Rate | Depreciation        |   | Net Block              |                       |
|--|------|----------------------|--|-----------------------------|-----------------------------------|---|----------------------|------|---------------------|---|------------------------|-----------------------|
|  |      |                      |  |                             |                                   |   |                      |      | As at 2071          | Total Acc.<br>Depreciation as at<br>31 Achad 2071 | As at 31 Achad<br>2071 | As at 31 Achad<br>070 |
| 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 0172 B, B   |      | 5,654,894.04         | -  | -                           | 5,654,894.04                      | 2,450,824.91                              | 3,204,169.13         | 5%   | 150,208.48          | 2,611,033.37                                      | 3,043,960.67           | 3,704,168.13          |
| Office Furniture (Wooden &<br>Steel)   | 80   | 1,376,016.20         | 16,400.00                                  | -                           | 1,988,165.20                      | 1,349,165.54                              | 639,000.66           | 20%  | 127,800.13          | 1,476,965.67                                      | 511,200.53             | 922,600.65            |
| Office Equipment:<br>a) Computer-25, printer-3,<br>Laptop-18<br>b) Multimedia-3, Fax Mac-1<br>etc. | 35   | 3,721,796.62         | 63,874.76                                  | -                           | 3,770,366.40                      | 2,437,352.76                              | 1,333,013.65         | 20%  | 266,802.73          | 2,703,655.48                                      | 1,066,410.92           | 1,269,186.67          |
| Computer & Printer-Lab   |      | 332,054.58           | 22,123.89                                  | -                           | 354,188.47                        | 196,800.25                                | 156,308.22           | 20%  | 31,001.64           | 229,841.90  | 124,246.67             | 133,184.30            |
| Lab Equipments (NAS, SVC<br>etc.)  |      | 12,378,276.64        | 1,180,000.00                               | -                           | 13,558,936.64                     | 8,590,069.95                              | 4,858,862.69         | 20%  | 971,776.53          | 9,069,053.92                                      | 3,887,106.12           | 3,678,222.80          |
| Loose tools  |      | 15,054.00            | -  | -                           | 13,064.00                         | 9,639.35                                  | 3,424.65             | 20%  | 684.93              | 10,324.28   | 2,739.72               | 3,424.65              |
| Vehicles (include Motor)   | 6    | 4,747,281.50         | -  | -                           | 4,747,281.50                      | 3,902,031.12                              | 845,230.38           | 20%  | 169,046.09          | 4,071,077.20                                      | 676,184.30             | 845,230.38            |
| Software   |      | 127,253.00           | 148,000.00                                 | -                           | 275,253.00                        | 79,800.82                                 | 195,352.18           | 20%  | 39,070.44           | 118,971.25  | 156,281.75             | 47,352.18             |
| Miscellaneous  |      | 46,555.00            | -  | -                           | 46,555.00                         | 42,862.25                                 | 3,692.75             | 20%  | 738.55              | 43,600.80   | 2,954.20               | 3,692.75              |
| <b>Total</b>   |      | <b>31,177,784.56</b> | <b>1,431,008.67</b>                        | <b>-</b>                    | <b>32,589,288.25</b>              | <b>18,168,713.97</b>                      | <b>13,420,574.28</b> |      | <b>1,786,939.49</b> | <b>30,935,703.46</b>                              | <b>11,603,884.79</b>   | <b>11,989,656.61</b>  |

  
  
 8/8  
 8/8  
 8/8

## THE WAY AHEAD ■ ■

The last year was a critical and challenging year for ENPHO, where couple of multi-year projects phased out and staff turnover was high. We also suffered the professional absence of Mr. Rajesh Adhikari from April 2013 who was critically injured in Tamale, Ghana during his official visit. However, because of team work and great efforts from each and every staffs we managed to overcome many challenges ensuring smooth completion of targeted activities.

Despite the challenges and getting the outputs of programmes and projects in earlier year, we were able to dedicate ourselves to further expand the programmes in the sector of urban disaster risk reduction, roof top agriculture and fecal sludge management in Kathmandu Valley.

In addition, we also contributed in sanitation campaign initiated by the government of Nepal through Global Sanitation Fund Programme. This year, to strengthen HR management system, we performed assessment of existing needs and gaps, and hired professional consultant to

review and get recommendations on our existing policies and systems.

In the coming years, ENPHO will continue to build on its strengths to establish itself as a center of excellence in the areas of water quality, WASH services, sustainable total sanitation, while expanding its involvement in other environment related issues such as climate change and DRR. ENPHO will strengthen its organizational capacity, particularly in the areas of scale up of sustainable solutions and project management by providing training opportunities for its staff and establishing HR systems for their effective functioning.

ENPHO will focus to promote integrated programs such as SWASH, DEWATS, DRR, FSM and Nutrition by building ENPHI as a professional center for research and capacity building, particularly focusing on WASH sector. For this we will strengthen and expand our partnership and networking with various national and international agencies including the government.

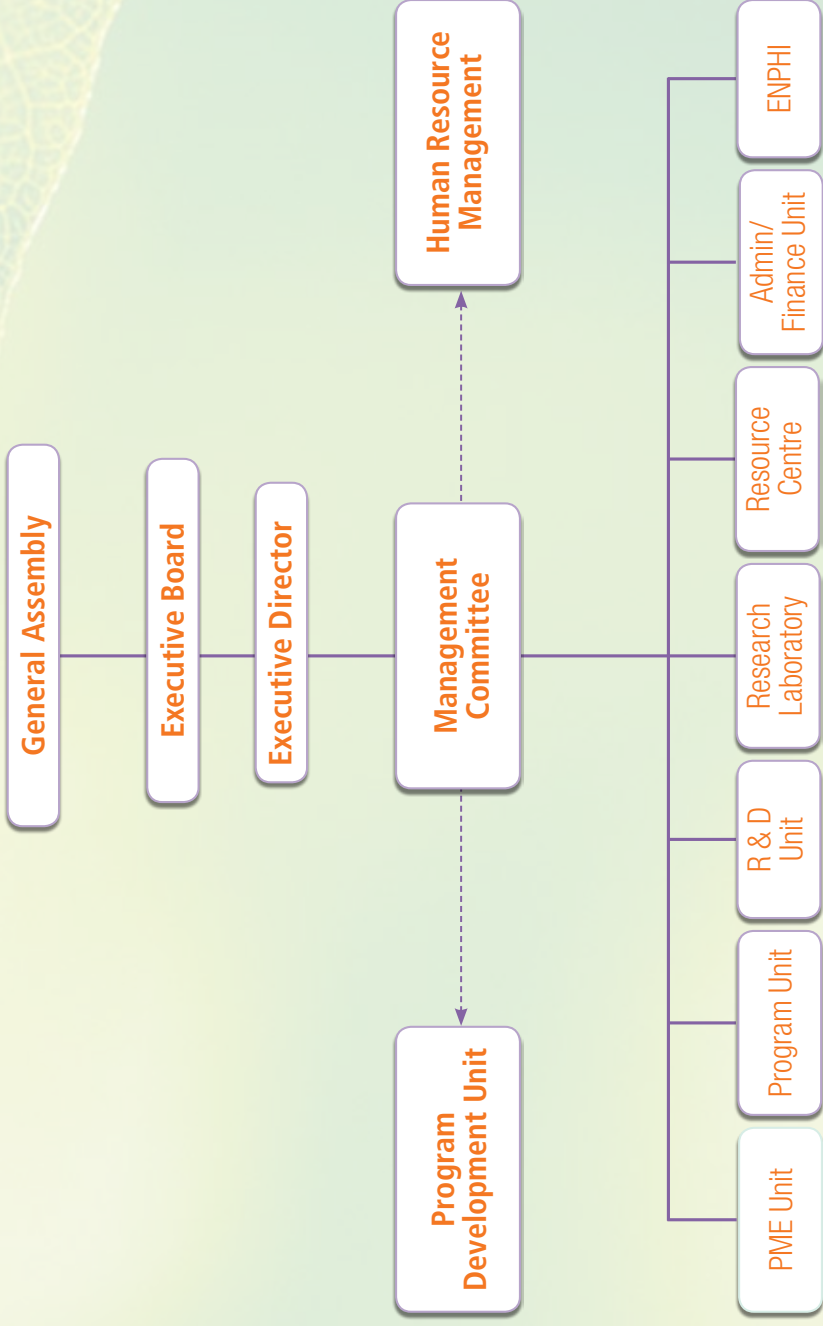


## PARTNERS

- Alliance for Sustainable Development
- American Embassy
- Asia Arsenic Network
- Asian Development Bank
- Australian Youth Ambassadors for Development
- Bharatpur Municipality
- Bremen Overseas Research and Development Association, Germany
- Butwal Municipality
- Center for Affordable Water and Sanitation Technology, Canada
- Center for Integrated Urban Development
- Central Horticulture Center
- Clean Energy Nepal
- Consortium of DEWATS Dissemination Society, India
- Department for International Development
- Department of Water Supply and Sewerage
- Dhulikhel Municipality
- DISVI International, Italy
- Dubai Expo 2020
- Dutch WASH Alliance
- Eco Himal, the Society for Cooperation Alps – Himalaya
- European Commission
- Give2Asia
- Gulariya Municipality
- IRC International Water and Sanitation Centre, The Netherlands
- Japan International Cooperation Agency
- Japan Water Forum
- Kathmandu Metropolitan City
- Kathmandu University
- Kathmandu Upatyaka Khanepani Limited
- Kirtipur Municipality
- Lalitpur Sub-Metropolitan City
- LUMANTI Support Group for Shelter
- Madhyapur Thimi Municipality
- Massachusetts Institute of Technology, USA
- Ministry of Urban Development
- Nepal Bureau of Standards & Meteorology
- Nepal Engineering College
- Nepal Red Cross Society
- Nepal WASH Alliance
- NGO Forum for Urban Water & Sanitation
- Non Residential Nepali-Canada
- One Planet Solution Pvt. Ltd.
- Oxfam GB Nepal
- Practical Action Nepal
- Pure Water's: International Water Purification Program Switzerland , Zurich
- Rain Water Harvesting Implementation Network Foundation, the Netherlands
- Rotary International
- RUAF Foundation, the Netherland
- Rural Village Water Resource Management Program – FINNIDA
- Rural Water Supply and Sanitation Fund Development Board
- Rural Water Supply Sanitation Project-Western Nepal, Pokhara

- School of Environmental Management and Sciences
- Siddhipur Village Development Committee
- SNV Nepal
- Social Welfare Council
- Society for Urban Poor
- SOMNEED Nepal
- Stockholm Environment Institute, Sweden
- Sustainable Sanitation Alliance
- Swiss Federal Institute for Environment Science and Technology, Switzerland
- The Asia Foundation
- The Association for International Solidarity in Asia
- The Bill & Melinda Gates Foundation
- The Coca-Cola Company / Bottlers Nepal
- The Research Council of Norway-The FRIPRO program
- Tikapur Municipality
- Total Management Services
- Tribhuvan University
- United Nations Children's Fund
- United Nations Human Settlements Program
- United States Agency for International Development
- University of Cambridge, UK
- University of Illinois, USA
- University of Kyushu, Japan
- University of Yamanasi, Japan
- Urban Environment Management Society
- WASTE, The Netherlands
- Water Aid Nepal
- Water, Sanitation and Hygiene - Resource Center Network Nepal
- World Bank
- World Health Organization

# ORGANIZATIONAL STRUCTURE





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