



Implementing Agency(Agencies): Ministry of Health

Project Title: Reducing unintended Persistent Organic Pollutants (uPOP) & Mercury releases from the Health Sector in Africa.

Project No(s):

Project Start Date:

Original: August 2015

Actual: Nov 2016

Project End Date:

Original: Dec 2019

New: April 2020

Fiscal Year: 2017

Reporting Period: April to June

Project Budget (US\$) for the Reporting Period (Use annual budgets in quarterly reports):

	Original Budget (US\$)	Latest Signed Revision (US\$)
Core/Trac Resources (UNDP):	115,500	220,000
LCDF GEF	148,148	148,148
Total Budget (US\$):	263,648	368,148

Submission Date: 31st March 2017

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1. Executive Summary

The Reducing of unintended Persistent Organic Pollutants (UPOP) & Mercury Releases in the Health Sector in Africa project aims to promote best practices and techniques for health-care waste management targeting at minimizing or eliminating releases of unintended Persistent Organic Pollutants (UPOPs) to aid countries meet their obligations under the Stockholm Convention on POPs. The project will also provide support in phasing-down use of mercury containing medical devices and products, with the objective of reducing releases of Mercury from the health sector to the environment in support of the nation's future obligations under the Minamata Convention. In minimizing UPOPs and Mercury releases, will result in improving healthcare waste management chain (e.g. classification, segregation, storage, transport and disposal). This is assumed to reduce the spread of infections both at healthcare facility level as well as in places where healthcare waste is being handled and finally disposed. This is envisaged to be done by the introduction of non – incineration technologies for the treatment of health care waste. Most often than not Health Care Waste (HCW) is treated by incineration means.

The project will contribute to the phasing down/removing mercury releases from the health sector to the environment, through a strategic and systematic removal of mercury containing devices (MCD) (i.e. thermometers & sphygmomanometers) and replaced with alternative mercury free devices on a 1:1 basis. A final bill of quantities (BoQ) for mercury free devices was submitted to UNDP – Istanbul Regional Hub (IRH) in May, 2017 for the procurement of alternative devices including other Health care waste support equipment.

The project is being implemented at eight health care facilities representing different levels of health care facilities, namely; University Teaching Hospital (UTH), Ndola Teaching Hospital (NTH), Kabwe General Hospital (KGH), Kapiri District Hospital (KDH), Mukonchi Health Centre, Matero & Chilenje 1st Level Hospitals and Mufulira's Kamuchanga District Hospital. This will demonstrate that high standards of Health care waste management can be implemented at all levels of health care provision.

The 2017 Project Steering Committee meeting was held on 5th of May, in Chisamba – Lusaka. The steering committee endorsed the 2017 annual workplan, approved the additional Healthcare Care Facilities (HCFs) – Chilenje and Matero level 1 Hospitals and formalised the use of the GEF steering committee as the project's Steering Committee.

During the reporting, period the project finalised the discussions on the procuring of the required autoclave capacities for the treatment of HCW in three cluster treatment facilities and included the purchase of a motor vehicle for transporting infectious waste from two satellite pilot sites to central cluster treatment facility. Thus, the project will now procure and install autoclaves as follows; a 850 l capacity for University Teaching Hospital (UTH) while Ndola Teaching Hospital (NTH) will have 250l x 2 capacity. The same capacity for Kabwe General Hospital. UNDP – Zambia Country Office will contribute additional funding to ensure that the necessary capacity autoclaves were procured for each HCF.

Under the same reporting period; the project convened two working group meetings to review policy and legal framework on health care waste management, one of which was attended by WHO Consultant Dr Ute Piper. The review meetings looked at several pieces of legislation that regulates health care waste management and focused on the Environmental Management Act (EMA No 12 2011) and the Public Health Act. The review meetings proposed the wording and text for inclusion in the Public Health Act, the main Act to house the health care waste management and mercury release issues.

Under the same reporting period: the project attended and participated in other national and international meetings. e.g. The National Health Week Campaign and the regional board meeting held 1-3 June, 2017, in Istanbul – Turkey. The National health week is dedicated week at which Ministry of Health showcases and promotes the health wellbeing of the citizens. It provides health care services to the public and graced by the head of state. The project participated through its partner – Waste Master by displaying healthcare waste support equipment, good HCW management practises and explaining the UPOP & Mercury releases project to the general populace.

2. Project background

As per the Ministry of Health, the project implementing Agency, there are 1,674 health care facilities in Zambia, whose health care provision activities vary in nature. Thus, generating different quantities and types of health care waste. By and large this health care waste is treated by means of incineration. Zambia is among four sub-Saharan African countries implementing the Global Environment Facility (GEF) funded project on Reducing of UPOP & Mercury Releases in the Health Sector in Africa. Others been Tanzania, Ghana and Madagascar. The project will promote best practices and techniques for health-care waste management by introducing non-incineration technologies in treating HCW. As this waste stream is by far the largest hazardous and contains the highest amount of PVC, this will ultimately reduce the generation of uPOPs from the healthcare sector by >90%. These activities will be implemented in four (4) components over a period of five-years.

Finally, it's expected that improved HCWM practices once attained will reduce UPOPs, mercury releases and the spread of infections both at healthcare facility level as well as in places where healthcare waste is being handled. This will in turn protect the environment from air emission and surface/ground water pollution.

During this reporting period under:

Component 1. Disseminate technical guidelines, establish mid-term evaluation criteria and technology allocation formula, and build teams of national experts on BAT/BEP at the regional level.

Outcome 1.2. Country capacity to assess, plan and implement HCWM and phase-out of Mercury in healthcare built.

The Project undertook to review training resource materials obtained during the regional Master's ToT workshop in Nakuru Kenya and tailored them to the Zambian context and reduced the number of modules. These training resource materials will be used at the ToT workshop planned for Q3 – last week of July.

Component 2. Healthcare Waste National plans, implementation strategies, and national policies in each recipient country.

Outcome 2.1: Institutional capacities to strengthen policies and regulatory framework, and to develop a national action plan for HCWM and Mercury phase-out enhanced.

The project convened two meetings for the working group reviewing policy and legal framework on healthcare waste management. The WG reviewed the two main pieces of legislation governing the administration of HCWM, i.e. the Environmental Management Act under ZEMA and the Public Health Act under the Ministry of Health.

Component 3B: Demonstrate HCWM systems, recycling, mercury waste management and mercury reduction at the model facilities, and establish national training infrastructures.

Outcome 3.b.1: HCWM systems, recycling, mercury waste management and mercury reduction at the model facilities, and national training infrastructures established.

The project finalised the acquisition of the required autoclave capacities for the treatment of HCW in three treatment facilities and included the purchase of a motor vehicle for transporting infectious waste from two satellite pilot sites to central cluster treatment facility.

Under component 3 all but one activities were initiated (except for recycling which is capacity building of waste recyclers in principles of HCWM) and are on track.

The following report outlines project implementation activities that took place in the Second quarter of the year i.e. April – June, 2017.

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<p>2.0 Institutional capacities to strengthen policies and regulatory framework and to develop a national action plan for HCWM and Mercury Phase –out enhanced.</p>	<p>mainstreaming activity in all project sites.</p> <p>2.1.1.1 Review National legislative framework to incorporate non-incineration technologies and reduction of mercury releases from the health sector.</p>	<p>No gender desegregated data.</p> <p>HCWM & Mercury releases not regulated for in the Public Health Act & EMA as well as ZEMA's Technical guidelines on hazardous waste.</p>	<p>HCWM in eight project pilot sites.</p> <p>Incorporate HCWM in at least one national policy, Act or strategic plan.</p>	<p>Gender participation statistical recorded in each activity.</p> <p>Held two review working group meetings to incorporate HCWM. Targeting the Public Health Act.</p>	<p>Activity planned for Q3</p>	
<p>3.0 HCWM Systems demonstrated at the model facilities</p>	<p>2.1.2.3 Review Curriculum of health sciences training institutions to include HCWM</p> <p>3.1.1.1 Conduct Inventory of MCDs securing of storage space at sites.</p>	<p>No Health Sciences training institutions' curriculum currently incorporates HCWM</p> <p>determine quantities of MCDs & products in selected HCFs.</p>	<p>Incorporate HCWM in training institutions' curriculum.</p> <p>Removal and replacement of Mercury containing devices and products determined. 1,768 mercury thermometers & 352 Sphygmomanometers.</p>	<p>Held planning meeting with UNZA – School of Medicine-Public Health.</p> <p>BoQs submitted to UNDP-IRH for procuring of equipment.</p>		

	3.1.1.2 Autoclave installation preparatory activities. 3.2.1.1 list of mapped waste recycling Companies.	No identified sites for autoclave preparatory & installation activities. No data of HCW recycling Companies available per province.	Identify sites & Assessed. Map all available recycling companies per province.	BoQ for construction of autoclave housing received from NTH Concept note prepared on recycling potential.	Inadequate list provided by key stakeholder. Research for more recycling companies.			
Progress on Implementation of Activities (Quarterly based on agreed quarterly workplan)								
Main Activity	Target	Progress against planned activities and targets	Planned Completion Date	Implementation Status (Completed, Ongoing-On Track, Ongoing-Off Track & Cancelled)	Reason (s) for slippage (if progress and implementation is not on track) and remedial measures taken	Budget & Expenditure Monitoring Framework		
						Budget (US\$)	Expenditure (US\$)	Delivery (%)
1. Conduct a comprehensive Baseline Assessment of current HCWM in all project pilot Health Care Facilities	Assess baseline of current HCWM in all HCFs.	60%	30 /06/2017	off track	Removal of Kamuchanga from initial – sites. Chemical waste baseline planned for June 2016 but postponed to July2017.	2,500	0	0%

2. Review Training Manuals on HCW for different stakeholders (Senior management, Health workers and Supervisors).	Reviewed all 51 training modules.	75%	30/06/2017	off track	1 st TOT – workshop planned for Q3	7,000	5851.27	84%
3. Hold training of trainers (ToT) workshops.	No trained personnel available	20%	30/09/2017	Ongoing – on track	TOT workshop planned for Q3	37,500	35,886.10	96%
4. Conduct gender inclusiveness in project activities.	No gender inclusiveness activities	10%	30/12/2017	Ongoing – on track	Carry out gender inclusiveness activities planned for Q 3.	1,531	0	0%
5. Curriculum review of Health sciences training institutions to include HCWM.	Hold three meetings with training institutions & engage consultant.	10%	31/12/2017	On-going – on track	planned for 1 st meeting in Q3	15,000	0	0%
6. Review of National legislative framework to incorporate non-incineration technologies and reduction of mercury releases from the Health Sector.	Held two review working group meetings to incorporate HCWM. Targeting the Public Health Act.	60%	31/12/2017	On-going – on track	Planned follow up meetings in Q3 & 4	10,000	17,163.77	172%
7. Hold biannual national Steering Committee	Held one steering committee – May	50%	31/12/2017	Ongoing – on track	Planned for the next SC in Q4	10,000	0	0%

- In end of programme/project reports, the comparison is between the beginning and the end of the programme/project. Baseline is at beginning of programme, project and CPAP cycle.

Progress towards achievement of results.

Challenges

1. Delay in implementing certain activities which depend on availability of key stakeholders like - ZEMA & UNZA – School of Medicine – Public health.
2. Inadequate information on who meets cost for site preparatory sites for auto-clave installation, hindering site preparation activities.
3. Need to discuss Doctors & nursing school's preference of using Mercury containing devices (thermometers & sphygmomanometers) as opposed to digital mercury free – alternatives. Especially, that equipment is expected in September 2017.
4. The project needs to mobilise resources from alternative sources (as per recommendations from IRH) to procure additional required items to demonstrate BPT such as internal and external transportation.

Lessons learnt

1. Constant engagement of key stakeholders will enhance project activities implementation.
2. Participation (as UPOP project) in National events such as National Health Week, promotes the project's presence and buy ins from the public and other government departments.
3. There's need for MOH to mobilize funds to facility the preparatory activities for the construction of autoclave housing.

Success story

Promotion of exchange visits among HCFs in June 2017. E.g UTH staff visited Matero level 1 hospital to share information on chemical waste management.

Planned Activities for third quarter - 2017

- Distribution of non-Mercury Containing Devices.
- Initiate recycling of non-infectious waste.
- Hold Training of Trainers workshops in HCWM.
- Gender mainstreaming activity in all project sites.
- Review curriculum of health sciences training institutions to include HCWM.
- Review policy and legal framework e.g. Public Health Act, EMA and Local Government Act; to include HCWM issues.

Signed by IP Project Coordinator:

Florence Mwaile

CEHO-G



Winnie Musonde

Signed by Assistant Resident Representative (UNDP)

W. Musonde

23/11/2017