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REPORT –Development of national Learning Resource Package of Best Environmental Practices of Health Care Waste Management in MADAGASCAR

1. INTRODUCTION

The regional UNDP project for the reduction of Unintended Persistent Organic Pollutants (UPOPs) and Mercury releases from the health sector in Africa aims to promote the best environmental practices in healthcare waste management in four countries: Ghana, Madagascar, Tanzania and Zambia. At the start-up of the project, a training of master trainers in best environmental practices of Health Care Waste Management (HCWM) was provided to the beneficiary countries of the project in Nakuru Kenya in 2016. The training materials including curriculum, powerpoints and videos were shared to the representatives of each country that became master trainers. Madagascar has four (4) master trainers: Dr Hanta Ravaosendrasoa (Project National Director from MOH), Mr Andrianiaina Jeferson (Project National Director from MOE), Dr Sandrine Andriantsimetry (National Coordinator of the project) and Dr Lucie Ramanantsoa (Expert of training of trainers in Public Health).

2. AIM OF THE REPORT:

To report the different steps undertaken by the project to develop the national learning resource packages in best environmental practices of HCWM (i) for in service staff at health care facilities and (ii) for pre-service training institution of the future care providers.

3. DEVELOPMENT OF NATIONAL LEARNING RESOURCE PACKAGE IN BEST ENVIRONMENTAL PRACTICES OF HCWM FOR IN SERVICE AND PRE-SERVICE SECTORS

Learning Resource Package- LRP: A learning resource package include the (i) curriculum for the trainer, (ii) participant's notebook that is the reference document for trainee, (iii) powerpoints, (iv) other support materials (pre-test and post-test, evaluation of the day...)

Three types of learning resource packages (LRP) were prepared for the in-service sector:

1. For care providers: physicians, paramedics including nurses, midwives and laboratory technicians (in French)
2. For operators and support staff (In Malagasy)
3. For national decision makers (relevant divisions at MOH) and managers of the hospitals (in French)

Two LRPs for the pre-service sector include LRP for paramedics and LRP for the Faculty of Medicine.

3.1 Development of the draft of the LRP

A local technical consultant expert in public health area was hired by the project in 2017 during six (6) months. Under the supervisory of the master trainers, the consultant developed these LRPs mentioned above using the materials shared in Kenya 2016. The national technical working group of the project provided guidelines and advices to the consultant to facilitate his consultancy work and validated his methodology of work.

Regarding the in-service LRP, the existing training materials used by the Health and Environment department 'SSENV'-MOH which leads the HCWM across the country was consulted also with the revised national technical guidelines in HCWM (that includes non-incineration treatment).



In Madagascar, the public pre-service training institution for paramedics depends both on the Faculty of Medicine and the specific division 'DIFP- Direction des Instituts de Formation des Paramédicaux' at the MOH. There are also many private pre-service institutions for paramedics across the country but they do not depend on any specific statal structure apart of the Ministry of higher education that gives them authorization to open and recognition of the diploma issued. Thus, the best way to transmit them the knowledge of best environmental practices in HCWM is to provide them the LRP documents and a training to them.

A specific LRP was developed for the Faculty of Medicine: the local consultant had meetings with few teachers and the Deans of the Faculty of Medicine (for information, there are 6 faculties of Medicine across the country and they are all public universities). The LRP served as reference documents to the teachers and will be used to develop their own syllabus.

3.2 Pre-test of the LRP among the specific targets:

LRP and targets	Methodology	Comments
In-service: for care providers, for operators and support staff, national decision makers and managers of the hospitals	Pre-test of the curricula and the powerpoint slides among the different targets from the University Hospital CHU Morafeno in Toamasina: <ul style="list-style-type: none"> - Revision of the documents by the national trainers - Oral presentation- powerpoint slides to the different targets - Collection of the comments and feed-back from the different targets 	<ul style="list-style-type: none"> - Done in September 2017 - Many recommendations issued by the master trainers and the national trainers to the local consultant to improve the draft of the LRPs
Pre-service: for paramedics	<ul style="list-style-type: none"> - Open discussion with the staff of public pre-service paramedical institution IFIRP Toamasina (Director, teachers and preceptors) on the HCWM courses offered at IFIRP. - Information on the project and the best environmental practices in HCWM promoted by the project to the audience. - Collection of the comments and feed-back from the IFIRP staff. 	<ul style="list-style-type: none"> - Done in September 2017 - Many recommendations issued by the master trainers and the national trainers to the local consultant to improve the draft of the LRPs
Pre-service: Faculty of Medicine	<ul style="list-style-type: none"> - Meetings with the teachers from Faculty of Medicine- University Antananarivo: presentation of the summary of the LRP - Collection of the of the comments and feed-back from the teachers. 	<ul style="list-style-type: none"> - Done in October 2017 - Recommendations used to finalize the draft of LRP.



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3.3 Finalization of the LRPs In-service and Pre-service to its validation as national LRPs in best environmental practices in HCWM:

- **LRPs In-service:** The national trainers are still revising the LRPs for in-service sector. The final version of LRPs will be officially offered to the Health and Environment department 'SSENV'-MOH and will become the national LRPs. This department will use the LRPs to expand the training in best environmental practices in HCWM at the national level.
- **LRPs Pre-service:**
 - Regarding the public pre-service training institutions for paramedics, representative of the specific division "DIFP", teachers and preceptors from the IFIRP Toamasina were trained with the care providers from the model health facilities in Toamasina. The LRP for pre-service paramedics will be finalized with the DIFP team and will be offered to them. The project will support the dissemination of the LRP to the 6 public IFIRP across the country.
 - The final LRP for paramedics will be shared also to the main private institutions for paramedics across the country. The project will support their dissemination and the training of the teachers and preceptors from these main private paramedics training institutions.
 - Since the professors from University hospitals are the main teachers at the Faculty of Medicine in Public University, the LRPs will be offered to them and they can use these for their own syllabus. These professors will receive the training in best environmental practices in HCWM for in-service sector.

4. OTHER RELEVANT INFORMATION

Currently:

- Fourteen national trainers available: composed of technical staff from SSENV-MOH, experimented teachers from university hospitals and technical staff from the divisions in charge of Analamanga region and the basic health centers at the MOH.
- During the workshop training in Toamasina- Atsinanana region and in Antsirabe-Vakinankaratra region, the project includes technical staff from the Health region division MOH "DRSP" and the main referral hospitals- university hospitals and regional hospitals to the participants from the model health facilities. This is great opportunity to promote the best environmental practices in HCWM outside the Analamanga region that is directly supported by the project through the six model health facilities.
- Fifty-nine health workers trained in best environmental practices in HCWM from the project.

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Prepared by The National Project Coordinator

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