

REQUEST FOR EXPRESSIONS OF INTEREST CONSULTING SERVICES

Arab Republic of Egypt GREATER CAIRO AIR POLLUTION MANAGEMENT AND CLIMATE CHANGE “GCCC” PROJECT - PROJECT (P172548)

Assignment Title: Development of training material for healthcare waste management

Reference No. (as per Procurement Plan): EG-EEAA-475020-CS-CQS

The Greater Cairo Air Pollution Management and Climate Change Project (herein “the Project”) aims at reducing air emissions from critical sectors and increasing resilience to air pollution in Greater Cairo. The Project aims more specifically at reducing air emissions which is a key step toward the reduction of pollution concentrations and improvement of air quality. The Project will focus on two of the primary sources of air pollution in the Greater Cairo (GC) region (i.e., Cairo, Giza and Qalyoubia Governorates): open burning of solid waste and vehicle emissions; and will include six main components aiming at: (i) enhancing the air quality management framework and decision support system in Egypt; (ii) improving Solid Waste Management services; (iii) reducing air and climate pollutants from vehicle emissions; (iv) furthering stakeholder engagement, awareness and communication; (v) project management and monitoring & evaluation (M&E); (vi) addressing the important issue of unintended emissions of POPs.

Brief description about the Enhanced E-Waste and HCW management for Reduction of uPOPs:

It is an additional finance (AF) to the parent project; this new activity focuses on reduction of unintended persistent organic pollutants (uPOPs) aligns with the “GEF Project Design and Review Considerations in Response to the COVID-19 Crisis and the Mitigation of Future Pandemics”. This new component will comprise 3 sub-components.

Sub-component 6.2: Supporting Effective Healthcare Waste Management, Models, and Solutions has been designed under the proposed Greater Cairo Air Pollution Management and Climate Change project (P172548).

This sub-component aims to strengthen the enabling environment for sustainable healthcare waste (HCW) management. It seeks to develop and pilot innovative solutions to reduce unintentional Persistent Organic Pollutants (uPOPs) emissions and promote long-term systemic changes in HCW practices across Egypt.

Key activities under this sub-component include:

- (i) developing and modeling public/private financing and investment models for collection and treatment of HCW.

- (ii) providing technical assistance to select healthcare institutions on utilization of possible financial mechanisms, procurement of environmentally-sound equipment, training of staff, and integration with the new protocols and facilities.
- (iii) supporting the preparation of a plan to roll out proper HCW management throughout the country in collaboration with key agencies and stakeholders (including women and other vulnerable communities).
- (iv) pilot appropriate recycling and re-sale of safely segregated HCW.

The requested services covered by these terms of reference are to support the Project Coordination Unit (PCU) and the Technical Implementation Units (TIUs) of “Greater Cairo Air Pollution Management and Climate Change (GGAP&CC) Project” in the implementation of the service of **Development of training material for healthcare waste management**

The Ministry of Environment (MoE) now invites eligible consultancy firms to indicate their interest in providing the services. Interested suppliers should provide information demonstrating that they have the required qualifications and relevant experience to perform the scope.

The shortlisting criteria are:

#		Percentage
1	Company Profile for each consultant firm.	10 %
2	Proven prior experience of at least 7 years in HCWM, in the Healthcare sector.	20 %
3	Proven experience at least one similar assignment (the preparation the HCW training material).	25 %
4	The consulting firm key Experts must have adequate skills and experience related to the assignment of similar scale and scope in HCW training material.	25 %
5	Familiarity with the world Bank's Regulation /Environmental Laws and regulations of Egypt and any applicable healthcare waste management regulations.	20 %

Total points for the five criteria: 100

The minimum technical score (St) required to pass is 75

The Consulting Firm will be selected in accordance with the Request for Proposal with the **Consultants Qualification Selection - CQS method**" set out in the Procurement Regulations".

Further information can be obtained at the address below during office hours 09:00 to 17:00.

Expressions of interest must be delivered in a written form to the address below (by e-mail) by 31st March - 12pm (CLT)

Greater Cairo Air Pollution Management and Climate Change "GCCC" Project

Attn: **Ms. Heba Elkarkari – Procurement Consultant**

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The detailed Terms of Reference "TOR" including the scope of work and deliverables for the assignment is found below.

Terms of reference

A. Introduction

To ensure the integration of healthcare waste management into broader environmental and climate initiatives. Sub-component 6.2: Supporting Effective Healthcare Waste Management, Models, and Solutions has been designed under the proposed Greater Cairo Air Pollution Management and Climate Change project (P172548).

This sub-component aims to strengthen the enabling environment for sustainable healthcare waste (HCW) management. It seeks to develop and pilot innovative solutions to reduce unintentional Persistent Organic Pollutants (uPOPs) emissions and promote long-term systemic changes in HCW practices across Egypt.

Key activities under this sub-component include:

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- (ii) providing technical assistance to select healthcare institutions on utilization of possible financial mechanisms, procurement of environmentally-sound equipment, training of staff, and integration with the new protocols and facilities.
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- (iv) pilot appropriate recycling and re-sale of safely segregated HCW.

B. Objectives of the Assignment

The project aims to develop comprehensive training materials for Healthcare Waste Management (HCWM) targeted at all medical staff, workers, and infection control personnel. This will involve creating clear, effective, and practical training resources that address the proper handling, segregation, and disposal of healthcare waste, while also incorporating safety and infection control measures.

The goal is to equip all relevant personnel with the knowledge and skills required to follow best practices in healthcare waste management, ensuring a safer and more sustainable environment for both healthcare workers and patients. These materials will be designed to align with national guidelines and international standards, enhancing overall healthcare waste management practices in Egypt.

These materials will be integrated into the activities of the Training Center outlined in Subcomponent 2.2, ensuring that training efforts remain up-to-date and reflective of the latest HCWM standards and best practices.

C. Specific Consultancy Tasks:

To develop comprehensive and updated HCWM training materials in line with national and international standards, the Consultant will undertake the following tasks:

1. Stakeholder Engagement:

- Collect and consolidate requirements, standards, and procedures from key entities such as the Ministry of Environment (MOE), Ministry of Health (MOH), Environmental Development Agency (EDA), Ministry of Higher Education (MOHE), and other relevant stakeholders.
- Organize consultations, meetings, and workshops with stakeholders to gather feedback and ensure the training materials align with the needs and expectations of healthcare workers, managers, and infection control staff.

2. Alignment of Training Materials with HCWM Guidelines Development:

- The development of training materials will be closely coordinated with the ongoing development of the HCWM guidelines to ensure consistency and alignment.
- In cases where the guidelines are not yet finalized, the training materials will be designed to incorporate the most up-to-date draft versions and will be adjusted as necessary once the final guidelines are available.

3. Review HCW Audit Report for the Selected Hospitals Under Study:

- Review the healthcare waste audit report conducted at the selected hospitals under study, considering the findings to develop context-specific training materials that address real-world challenges in the facilities.
- Integrate relevant data from the audit to highlight common issues and best practices for waste management that will be covered in the training.

4. Develop Updated HCWM Training Materials

- Develop detailed, clear, and practical training materials that cover all stages of HCWM, including generation, identification, segregation, storage, transportation, treatment, and disposal.
- Ensure training materials are designed for different target audiences, including medical staff, healthcare workers, infection control personnel, and waste management teams.
- Align the content with national regulations and international standards, while incorporating stakeholder feedback.

- Create modules and resources that are adaptable for various learning environments (e.g., in-person workshops, online courses, and printed materials).

5. **Training Delivery and Pilot Testing**

- Collaborate with hospitals and healthcare institutions to pilot the training materials with a small group of target personnel.
- Gather feedback from participants on the effectiveness, clarity, and practicality of the training materials and make necessary adjustments based on their input.
- Ensure that training delivery methods are appropriate for different learning styles and can be implemented across various healthcare facilities.

6. **Validation and Finalization**

- Circulate the finalized training materials to key stakeholders for validation and approval.
- Revise and finalize the materials based on received feedback, ensuring all relevant information is incorporated.
- Organize a final workshop or training session to present the finalized materials to all stakeholders and provide guidance on their implementation.
- Prepare a comprehensive report summarizing the development process, final training materials, and recommendations for future training initiatives.

D. Deliverables:

- **A Detailed Work Plan**

A comprehensive work plan outlining the timeline for the proposed tasks related to developing HCWM training materials, including milestones for stakeholder engagement, content development, and validation.

- **Draft Training Materials for HCWM**

A draft version of the HCWM training materials, including content for medical staff, healthcare workers, and infection control personnel. This draft will address the key stages of HCWM, such as waste segregation, storage, handling, and disposal, in alignment with the updated guidelines.

- **Final Updated Training Materials**

Finalized HCWM training materials that incorporate stakeholder feedback, align with

national regulations and international standards, and cover all necessary topics for effective waste management. The training materials will be suitable for various delivery methods, including workshops, online courses, and printed resources.

- **Pilot Testing Report**

A report on the pilot testing phase, summarizing the feedback from participants, adjustments made to the materials based on this feedback, and recommendations for further improvements.

- **Final Training Delivery Guide**

A guide for the effective delivery of the training materials, including methods, tools, and instructions for trainers, as well as a detailed implementation plan to ensure successful training across healthcare institutions.

Notes: Final updated training material shall be prepared in English and Arabic.

E. Required Consultant Team competencies

The Consultant(s) shall have completed at least one similar assignment (i.e., Guidelines for HCW management) and have 7 years of professional experience working in HCWM in the Healthcare sector. The following areas of expertise are mandatory within the team members:

- Master's degree or Ph.D. degree in pharmacy, medicine, medical science, environmental engineering, environmental science, or related discipline for healthcare.
- At least 7 years of experience with international auditing protocols and assessments specifically in health care waste management
- Familiarity with the national laws and regulations of Egypt and any applicable national healthcare waste management guidelines
- Demonstrated experience in conducting consultations, interviews and auditing techniques,
- Good communications skills, both oral and written, and ability to write well in English and Arabic

F. Timeframe

The Consultant shall prepare the final HCWM training material. The total duration of the contract is **12months from the date of contract signature and Notice to Proceed (NTP).**

The consultant is expected to deliver the following outputs according to the following schedule:

Output	Timeframe
A detailed work plan outlining the timeline for the proposed tasks	10 days from NTP
Draft Training Materials for HCWM	4 months from NTP
Final Updated Training Materials	4months after submission of accepted Draft.
Pilot Testing Report	1 month after submission of the final.
Final Training Delivery Guide	2 months after pilot training.