

Government of the People's Republic of Bangladesh
Ministry of Local Government, Rural Development and Cooperatives
Local Government Division

Improvement of Urban Public Health Preventive Services Project
(World Bank financed Urban Health, Nutrition and Population Project, IDA cr.
7402-BD)

Terms of Reference (ToR)
for
Medical Waste Management Specialist (National)

1.0 Background

The Government of the People's Republic of Bangladesh ("GoB") has received a credit from the International Development Association ("IDA") for implementation of the "Urban Health, Nutrition and Population Project", implemented by the Ministry of Health and Family Welfare ("MoHFW") and the Ministry of Local Government, Rural Development & Cooperatives ("MOLGRD&C"). The Project has two components – the Second Component is being implemented by the Local Government Division ("LGD") under the Project Name – **"Improvement of Urban Public Health Preventive Services Project (UPHPSP)"**. The main goal of the Project (Component 2) is to develop systems and capacities of LGD, City Corporations and Municipalities (i.e., called "Pourashava") for delivering public health preventive services such as BCC (mosquito) control, outhouse medical waste management, mitigating air and sound pollution and climate change effects on public health, behavior change communications to promote healthy lifestyles and creating awareness as well as community-driven interventions for addressing non-communicable diseases ("NCD"). The geographical areas of the project are Dhaka North City Corporation ("DNCC"), Dhaka South City Corporation ("DSCC"), Chattogram City Corporation ("CCC"), Savar Municipal Corporation ("SMC") and Tarabo Municipal Corporation ("TMC") areas.

UPHPSP (i.e., Component 2) will support delivery of environmental health and preventive services primarily in the above mentioned locations through: (a) development and implementation of a comprehensive strategy for integrated vector surveillance and management, including capacity building and institutional strengthening of local bodies; (b) support for behavior change communication and outreach interventions in the citizens of the urban areas, including for air and noise pollution effects among the stakeholders; (c) tree planting for climate change; (d) revision and/or development and implementation of strategy, arrangements, practices, guidelines, policies, and standards for outhouse medical waste management ("MWM"); and (e) support for day-to-day administration, management, monitoring, and coordination of the project, including financial management, procurement, monitoring and evaluation ("M&E"), citizen engagement, and environmental and social ("E&S") management.

LGD is the lead implementing agency of the Project (Component 2). The LGD is establishing a Project Management Unit ("PMU") headed by a Project Director. He will be assisted by one Deputy Project Director ("DPD"), other Project staff and outsourced staff including a team of twelve (12) individual consultants. The team of consultants will assist the PMU and report to the Project Director.

The LGD intends to apply a part of the proceeds of this credit to hire a Medical Waste Management ("MWM") Specialist for the project as an individual national consultant.

2.0 Objective of the Assignment

The main objective of this consultancy assignment is to assist the PMU in assessing the medical waste generated by different tiers of health care facilities in the project areas and finding the best alternative solutions for outhouse management (i.e., methods, procedures, technologies, mechanisms, etc.) available for application in specific areas.

3.0 Scope of Services

The MWM Specialist will closely work with the PMU staff, consultants, and stakeholders to help implement the project successfully. The Specialist will review the Development Project Proforma (“DPP”), the Financing Agreement, the Project Appraisal Document and other Project documents and determine his/her duties, roles, responsibilities and scope of services under the Project. The overall scope of work of the Specialist include, but are not limited to, the following tasks.

Task 1: The MWM Specialist will undertake to perform the services with the highest standards of professional and ethical competence and integrity and try his/her best efforts to achieve the desired goal and objectives of the project.

Task 2: The MWM Specialist will review the existing rules, regulations, strategies, policies, and enforcement practices at the government level concerning medical wastes management (outhouse medical wastes), especially hazardous wastes and provide specific recommendations on areas which need to be improved.

Task 3: The MWM Specialist will review the existing medical waste management system being practiced in collaboration with the City Corporations/Pourashavas and assess the appropriate method, technology and institutional mechanism for collection, transportation, and disposal of medical waste from both public and private health care facilities at City Corporation/Pourashava level.

Task 4: The MWM will support capacity building of relevant staff in categorizing the different types of hazardous medical wastes generated by different tiers of health care facilities in city corporations (DSCC, DNCC and CCC) and municipalities (Savar and Tarabo) and quantify (weight and volume) the wastes, such as pathological, infectious, sharps, pharmaceutical, chemical, aerosol, and radioactive, etc. for proper disposal.

Task 5: The MWM Specialist will carry out consultation with relevant stakeholders and review the existing medical waste segregation, handling, storage, and disposal practices in different tiers of health care facilities in project areas, evaluate the progress being made in source segregation and handling of outhouse medical waste, and develop recommendations for improving the source segregation and outhouse medical waste handling systems. The stakeholder consultations will also focus on building community awareness and knowledge to increase utilization of health services and engage in positive health behaviors.

Task 6: The MWM Specialist will inspect the storage facilities of medical waste collection of the city corporations/municipalities, estimate the pre-collection volume of medical waste and determine the percentage of medical waste being segregated out of the total generation.

Task 7: The MWM Specialist will review the best practices including the Medical Waste (Management and Processing) Rules, 2008 and Draft MWM rules 2024 of the Department of Environment (DoE) for handling and disposal of medical waste and determine the appropriate method and technology (ies) for cost-effective and environmentally safe disposal of medical wastes suited to local government environment.

Task 8: The MWM Specialist will develop a suitable outhouse medical waste management system through PPP or contractual arrangement with a private party that includes a preliminary design including a typical site layout, land requirement, capital estimate, operating estimate and requirements, and staffing requirements for each of the recommended medical waste treatment and disposal facilities and will ensure that the facilities are run and operated in accordance with the Medical Waste (Management and Processing) Rules, 2008 of the Department of Environment.

Task 9: The MWM Specialist will help the Procurement Specialist in developing procurement documents for hiring a Service Provider for Outhouse Medical Waste Management, and help manage the contract of the Service Provider. The Specialist will also contribute to procurement documents for procuring goods, works, and/or services required for outhouse MWM.

Task 10: The MWM Specialist will assist the PMU to develop standards of procedures (SOPs) on outhouse medical waste management and processing through other consulting firms.

Task 11: The MWM Specialist will estimate the capacity building/training requirements of the health facility staff and staff of city corporations and pourashavas for the proposed systems.

Task 12: The MWM Specialist along with other specialists/experts will provide training on waste management (i.e., Module 6 as suggested as part of the core training in the DPP) to the staff of City Corporations, Municipalities and project staff and other stakeholders.

Task 13: The MWM Specialist will assist the PMU in preparing reports, documents, factsheets or similar instruments for discussion and decision in the Project Implementation Committee (PIC) and the Project Steering Committee (PSC) meetings and the World Bank Supervision Mission meetings. The MWM Specialist will prepare regular progress reports to be submitted to the World Bank.

Task 14: The MWM Specialist will contribute to the preparation of the project completion report (“PCR”) from his/her respective areas.

Task 15: The MWM Specialist will carry out any other task relating to the Project, City Corporations and Municipalities (as cited in the Project) as and when required or assigned by the PMU.

4.0 Reporting and Deliverables

The MWM Specialist will prepare and submit the following reports/documents on a one-time and/or recurrent basis to the Project Director and the PMU for his/her duties and responsibilities.

- (a) Inception report within one (1) month of the effectiveness of his/her contract.
- (b) Reports and/or Documents as mentioned in Paragraph 3.0 as and when required.
- (c) Any other reports relating to medical waste management issues.

5.0 Duration of the Assignment

The duration of the assignment for the MWM Specialist will be [48] calendar months. The Project duration is estimated up to 30 June 2028. The duration of the assignment may be increased or decreased depending upon the performance of the MWM Specialist, the needs and budget allocated for the Project and the duration of the Project. The PMU and/or the PMU will carry out the performance assessment of the

incumbent on an annual basis. The satisfactory performance of the MWM Specialist will ensure the continuation of the contract.

6.0 Academic Qualifications and Experiences

The MWM Specialist must have at least Bachelor's Degree in Engineering (preferably Environmental Engineering) or Master's degree in Environmental Science. The MWM Specialist should have at least fifteen (15) years of general work experience of which seven (7) years in the role of waste/ medical waste management in national/international organizations. The incumbent should have practical knowledge of the design and installations of the medical waste management system. The incumbent should have high level of proficiency in written and spoken Bangla and English, report writing, analytical skills and computer literacy. The incumbent should have experience of working in a team environment.

7.0 Institutional Arrangement

The MWM Specialist will carry out his/her responsibilities and duties under the general supervision and guidance of the Project Director and work in close collaboration with other officials/consultants of the Project. He/she will report to the Project Director. The duty station will be at the PMU established in Dhaka city.

8.0 Facilities and Services to be provided by the PMU

The PMU will provide the necessary office space, office equipment and furniture, stationery, data, information, documents in connection with the Project, and other logistics. The PMU will provide transportation facilities for field trips, as needed.

9.0 Selection Method

The MWM Specialist will be selected following the Selection of Individual Consultants as set forth in accordance with the World Bank Procurement Regulations for IPF Borrowers, Fourth Edition, November 2020 (the "Procurement Regulations"), the Public Procurement Act, 2006 and the Public Procurement Rules, 2008 (together the "National Procurement Laws").