

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  
**Vector 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 vector (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 PMU will be responsible for core project management functions and the coordination of Project activities. 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 Vector Management 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 ensuring adequate management of vectors (mosquitoes as well as other vectors) which is in place for controlling the outbreak of vector-borne diseases.

## **3.0 Scope of Services**

The Vector Management Specialist will closely work with the PMU staff, consultants, outsourced staff, and stakeholders to help implement the project successfully together. The Specialist will review the Development Project Proforma (“DPP”), the Financing Agreement, the Project Appraisal Document and other Project documents to better understand 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 Vector Management 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.

**Task 2:** The Vector Management Specialist will assist the PMU in ensuring the vector control/entomological laboratory is set-up following international standards. S/he will assist the Procurement Specialist in finalizing the procurement documents for goods, works, and services needed to set-up this laboratory and help with contract management, particularly entomological equipment, chemical, reagent, materials, biological lab equipment, etc..

**Task 3:** The Vector Management Specialist will ensure an adequate system for regular vector surveillance is put in place and use this data along with the disease surveillance data to identify potential hot-spots for vector breeding (mosquitoes as well as other vectors) and ensure vector control measures are implemented in these places to prevent disease outbreaks. The Vector Management Specialist will also use weather data from the Bangladesh Meteorological Department and other sources to predict potential places and seasons for disease outbreaks and ensure adequate measures are in place to prevent and manage it.

**Task 4:** The Vector Management Specialist will be actively involved with the consulting firm (to be hired) as counterpart staff of the PMU in developing policy, guidelines and standard operating procedures for integrated vector management, and assist the consulting firm in stakeholder consultations for these services.

**Task 5:** The Vector Management Specialist will develop the vector control implementation strategy in consultation with relevant experts and stakeholders and assist the PMU and the LGD in implementing the policy, guidelines and standard operating procedures for integrated vector management in affected areas in Bangladesh.

**Task 6:** The Vector Management Specialist will provide technical advice and support to the PMU for improving vector (mosquito) management activities under the project in view of global, regional and country initiatives, coordinate and collaborate to improve and strengthen the country’s capacity in prioritizing the risky areas, decision-making, and implementation of vector (mosquito) control interventions based on the analysis of epidemiological and entomological information including insecticide resistance.

**Task 7:** The Vector Management Specialist will assist the PMU in identifying suitable methods and techniques including modern technologies as well as ideas to control vector and vector-borne diseases and assist the PMU and the stakeholders in improving collaborative actions in vector control and prevention through multilevel and multisectoral integration.

**Task 8:** The Vector Management Specialist will assist the PMU in enhancing entomological surveillance system and vector control monitoring and evaluation management, including insecticide resistance monitoring and management, and vector control information system.

**Task 9:** The Vector Management Specialist will assist the PMU in consultation with relevant experts and stakeholders to establish a dengue early warning system, contract management, testing and operation of the system under the project areas. S/he will assist the Procurement Specialist to finalize procurement documents for procuring goods, works, and/or services needed for the early warning system. S/he will closely work with the Bangladesh Meteorological Department to use weather data for the early warning system.

**Task 10:** The Vector Management Specialist will, in consultation with relevant experts and stakeholders, identify vector species and stages of development, determine appropriate integrated management strategy, and maintain an awareness of patterns and practices conducive to mosquito and other vector breeding which are significant to the timing of operations.

**Task 11:** The Vector Specialist will regularly inspect and monitor the operations for vector control in assigned areas (i.e., mosquito and other vector breeding sources), evaluate the mosquito and vector producing conditions and advise the stakeholders (i.e., City Corporations and Municipalities) to choose the most effective control method for any given situation and inspect the treated areas to evaluate the efficiency of treatment.

**Task 12:** The Vector Management Specialist along with other specialists/experts will provide training on vector control and management including other related areas (i.e., Module 6 and Module 10 as suggested as part of the core training in the DPP) to the staff of City Corporations, Municipalities and project staff.

**Task 13:** The Vector Management Specialist will assist the PMU in preparing reports, documents, factsheets or similar instruments for discussion and decision in the Project Implementation Committee (PIC), the Project Steering Committee (PSC) meetings, the World Bank Supervision Mission meetings and other forum as needed.

**Task 14:** The Vector Management Specialist will contribute to the preparation of the project completion report ("PCR") from his/her respective areas.

**Task 15:** The Vector Management Specialist will carry out any other task relating to vector management of 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 Vector Management 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 vector management, stakeholder consultations, workshops/seminars.

## **5.0 Duration of the Assignment**

The duration of the assignment for the Vector Management 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 Vector Management Specialist, the needs and budget allocated for the Project and the duration of the Project. The PMU will carry out performance assessments of the incumbent on an annual basis. The satisfactory performance of the Vector Specialist will ensure the continuation of the contract.

## **6.0 Academic Qualifications and Experiences**

The Vector Management Specialist must have at least a Master's Degree in Zoology with specialization in Entomology. The incumbent should have at least fifteen (15) years of general work experience, of which seven (7) years in the role of vector management/ vector related research in national/international organizations. The incumbent should have practical experience in public health management in urban context. The incumbent having relevant scientific publications in the peer reviewed national/international journals will be given preference. 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 Vector Management 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 Vector 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").