Call for individual Public Health and Vector Borne Diseases Expert for the process of developing and implementing the climate resilient ICZM plan for the North Coast of Egypt

1. Background

The Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project (ECCADP) aims at supporting the adaptation efforts of Egypt in the North coast and in particular the Nile Delta which is identified by the Intergovernmental Panel on Climate Change (IPCC) in its Fourth Assessment Report as one of the world’s three “extremely” vulnerable deltas in the world. The objective of the ECCADP is to reduce coastal flooding risks in Egypt’s North Coast due to the combination of projected sea level rise and more frequent and intense extreme storm events. Output 1 focuses on constructing 69 km of sand dune dikes at five vulnerable hotspots within the Nile Delta that were identified during an engineering scoping assessment and technical feasibility study. Output 2 focuses on the development of a climate resilient Integrated Coastal Zone Management (ICZM) plan for the entire North Coast of Egypt, to manage long-term risks including climate change.

The ECCADP will facilitate transformational change in the short-term by reducing coastal flooding threats along vulnerable hotspots in the Delta and in the long-term by integrating additional risks of climate change into coastal management and planning, budgeting and implementation of risk reduction measures. The ECCADP is implemented by the Ministry of Water Resources and Irrigation (MWRI) and is jointly funded by the Government of Egypt (GoE), the Green Climate Fund (GCF) and the United Nations Development Programme (UNDP).

The ECCADP recruited an international consultancy firm to develop and assist in the implementation of a climate resilient ICZM plan for the North Coast of Egypt. The consultancy firm has accomplished a number of outputs (https://eccadp.com/) and based on these outputs a number of accumulated deliverables needed to proceed with the next process of developing and implementing the climate resilient ICZM plan for the North Coast of Egypt.

The project seeks to recruit an individual Public Health Expert to prepare and deliver number of tasks within the process of developing and implementing the climate resilient ICZM plan for the North Coast of Egypt - related tasks - as described below in the scope of work section based on the data input from the ECCADP.
2. *Scope of work*

This assignment will focus on identifying the status of sea level rise and associated risks of coastal flooding and sea water intrusion impact on human health and vector borne diseases and assessing the future impacts of Climate Change on Human Health until the year 2100. The selected consultant will be responsible for:

2.1 Collect the related data to the impact of climate change on public health and vector borne diseases and information from the different authorized sources (MOHP and CAMPAS), from authorized websites such as WHO, CDC, IPCC, etc.

2.2 Collect the published pre-reviewed national literatures related to climate change impacts on public health and vector borne diseases in the Coastal Zones of the North Coast 8 Governorates in Egypt.

2.3 Identify vulnerable groups to each of the identified sea level rise risks in Egypt including but not limited to children, youth, elderly people, people with disabilities, people with chronic disease, pregnant women, etc. as well as public health issue such as reproductive health, family planning and protection services etc.

· Analyze climate impacts on the public health and vector borne diseases including morbidity and mortality rates through track historical trends in public health aspects sensitive to sea level rise risks.

· Correlate changes in health outcomes with changes in climate patterns through applying pairwise correlation approach, correlation matrix, etc at the study level units’ scale.

· Review the existing current status of public health care system related to climate risks and vulnerable groups’ needs in coastal governorates at the study level units’ scale.

· Use statistical models to project climate change impacts on public health and vulnerable groups and regions up to 2100 at the study level units’ scale.

· Recommend the adaptation measures to respond to impacts on public health in coastal governorates in alignment with the National Egyptian Health Plans.

· Provide necessary data for developing the National Climate Risk Assessment map, for each of the 8 governorates, for public health and vector borne diseases through the following steps:

· Hold consultation meetings with national concerned entities in Ministry of Health, Health Directorates in north coast 8 governorates and National Healthcare Authority as well as present study findings in one or more workshops.

· Prepare training materials on climate change impacts on public health for healthcare government officials.

3. *Duration*

3.1 ECCADP will contract the Public Health Expert for *Nine months* within which S/He will be asked to deliver a number of databases, reports, and attend a regular of meetings in the process of developing and implementing the climate resilient ICZM plan for the North Coast of Egypt. This contract can be renewed based upon
the project requirements and the evaluation of the performance of the work carried out in the preceding period.

3.2 The estimated working days for this task is up to 45 days during the period of July 2024 – March 2025, and the selected expert will submit the deliverables in section (4) based on an agreed time plan which will be formulated based on the technical proposal of the applicant and the ECCADP arrangements.

3.3 The contract duration and number of working days are indicative and will be finalized with the selected candidate upon contract signing.

4 Deliverables:
Based on the data input from the ECCADP, the Public Health Expert will deliver the following:

Deliverables Note:

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<th>Deliverable</th>
<th>Terms of Payment</th>
<th>Expected Submission Date</th>
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<tbody>
<tr>
<td>1. Background on the current status of healthcare system related to public health including prevailing public health issues in North Coast Governorates in Egypt, relevant institutional and regulatory frameworks, capacities of healthcare facilities, infrastructure and medical staff to respond to public health issues. The background will include reported direct and indirect impacts to date on vulnerable groups and north coast governorates in Egypt, including, but not limited, to the following health aspects (food safety and water quality, malnutrition, reproductive health, etc)</td>
<td>10% of the total value of the contract upon approval of the contract</td>
<td>Two weeks after signature of the contract</td>
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<td>2. A Report on the Analysis of climate change risks that would induce a positive or negative impacts on public health in Egypt together with vulnerable groups and vulnerable zones in Egypt associated with each disease/impact including references from available international and national studies. Results should be</td>
<td>20% of the total value of the contract upon the acceptance of the report</td>
<td>three weeks after the acceptance of deliverable no. 1</td>
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<td>Prepared for each coastal unit in the north coast governorates.</td>
<td>20% of the total value of the contract upon the acceptance of the report</td>
<td>three weeks after the acceptance of deliverable no. 2</td>
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<td>3. A Report on the Projected direct and indirect impacts of climate risks on public health in north coastal zones Egypt including heatstroke, exacerbation of cardiovascular and respiratory diseases, increased risk of mortality, especially among vulnerable populations, injuries and fatalities, social disruption and stress, water-borne diseases, malnutrition, reproductive health, maternal health, family planning and protection services etc. on identified classified vulnerable groups including gender dimension such as pregnant women, etc. in different north coast governorates in Egypt up to 2100. Results should be prepared for each coastal unit in the north coast governorates.</td>
<td>20% of the total value of the contract upon the acceptance of the report</td>
<td>Four weeks after the acceptance of deliverable no. 3</td>
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<td>4. A Report including indicators for the potential impacts of Sea level Rise on north coast for: · Gaps in available information that needs further studies. · Governorates’ needs of healthcare facilities, infrastructure, regulatory and institutional frameworks, medical staff, legislative and regulatory amendments, etc. to respond to projected impacts of climate change risks on public health in Egypt. Results should be prepared for each governorate.</td>
<td>20% of the total value of the contract upon the acceptance of the report</td>
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<td>5. A Report on the Adaptation action plan including purpose, estimated cost, responsible party, priority, time frame for implementation, social and environmental safeguards, indicators, baseline, targets, etc. for each action. Results should be prepared for each coastal unit in the 8 north</td>
<td>20% of the total value of the contract upon the acceptance of the report</td>
<td>three weeks after the acceptance of deliverable no. 4</td>
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Coast governorates
· Indicators to monitor sea level rise impacts on health and impact of implementation of climate change adaptation actions at the north coastal zones level.
· References
· Annexes:
  . List of met people and institutions.
  . Sources of national and international relevant data
  . Policy brief for decision makers on the risks and recommended actions.
  . Videos, PDF files, and any other dissemination material
  . Source data to develop GIS interactive map with layers on (current status, future impacts, adaptation measures) using governorates as coastal units, further details on the type of data will be provided by ECCADP PMU.

6. Prepare training materials on climate change impacts on public health for healthcare government officials.

5. Qualifications and Experience
5.1 University degree in Medicine or related relevant discipline, preferably at PhD level.
5.2 At least 10 years of progressive working experience in climate risks and their impacts on the coastal economic activities and / or relevant topics.
5.3 Knowledge of the northern coasts of Egypt.
5.4 Working experience with governmental stakeholders and international projects.
5.5 Fluency in written and spoken English.

6 Application:
Please submit your technical proposal, recent CV, and a financial offer for achieving the above deliverables to the below email specifying the title of the post: mohamed.ahmed@eccadp.com

Deadline for application is July 1st, 2024.
7 Evaluation / Selection Process

All applicants will be screened against qualifications and the competencies set above. Candidates fully meeting the requirements will be further evaluated based on the criteria below:

7.1 Technical Criteria CV review: 70 points (minimum pass score = 50 points):

7.1.1 Educational qualification as defined in the ToR (10 points).
7.1.2 Experience as defined in the ToR (20 points).
7.1.3 Relevant work experience in similar projects (20 points).
7.1.4 Experience of the Egyptian northern coasts (20 points).

7.2 Financial Criteria: 30 points.

7.2.1 Financial scores will be calculated using the formula \( \frac{\text{lowest offer}}{\text{financial offer of the candidate}} \times 30 \).