



বাংলাদেশ পানি উন্নয়ন বোর্ড

BANGLADESH WATER DEVELOPMENT
BOARD

Project Management Unit
Coastal embankment Improvement Project
Phase-I (CEIP-I)
House-15, Road-24, Gulshan-2, Dhaka
Phone: +88-02-9899373
Email: pdpmuceip@gmail.com

Memo No: WDB/CEIP/S18/627

Date: 30-07-2017

**Request for Expressions of Interest (EOI) For
Independent Panel of Expert (IPoE) For
Hydrodynamic and Coastal Modelling Expert
Under PMU, CEIP-1, BWDB, Dhaka, Bangladesh**

Bangladesh

Coastal Embankment Improvement Project, Phase-1(CEIP-1)

Disaster Risk and Climate Change Unit

Sustainable Development Department

Hydrodynamic and Coastal Modelling Expert

(Contract Package No. CEIP-1/D1/S18)

Credit No-5280- BD

Project ID No.:P128276

1. The Government of Bangladesh (GOB) has received financing from International Development Association (IDA) to meet part of the cost of the Coastal Embankment Improvement Project, Phase-1 (CEIP-1). The overall **objective** of the CEIP-1 is to increase the resilience of coastal population to natural disasters and climate change. More specifically, the project aims at (a) reducing the loss of assets, crops and livestock during natural disasters; (b) reducing the time of recovery after natural disaster such as cyclone; (c) improving agricultural production by reducing saline water intrusion which is expected to worsen due climate change; and (d) improving the Government of Bangladesh's capacity to respond promptly and effectively to an eligible crisis or emergency. This objective will be achieved by **rehabilitating and improving the polder system in the coastal area**. The project is expected to be implemented over 7-8 years. The project is spread over 6 districts in coastal area of Bangladesh, viz., Khulna, Bagerhat, Satkhira, Pirojpur, Borguna and Patuakhali.

The Project is being implemented by the Ministry of Water Resources (MOWR), through the Bangladesh Water Development Board (BWDB). BWDB has set up a Project Management Unit (PMU) to oversee the development and execution of the project. The PMU is led by a Project Director and located in BWDB's headquarters in Dhaka. Also, one Field Level Offices (FO), at Khulna has been set up headed by an Executive Engineer. PMU is being assisted by a Detailed Design & Construction and Supervision (DDCS) & Project Management Support (PMS) Consultants and a Monitoring and Evaluation (M&E) Consultants.

The PMU will engage a Team of Experts to be designated as **Independent Panel of Expert (IPoE)** who will provide technical and professional support to ensure safety, economy, state of the art construction/ improvement of the embankment system and water management practices inside the protected areas while ensuring social and environmental safeguards. Meanwhile, PMU has engaged an IPoE, member in the position of Environment, Water Management and Polder Expert. The role of the IPoE will be to:

- Act as an independent "peer reviewer" to undertake quality control functions of the various technical outputs (studies, designs, drawings, monitoring reports etc.) that will be generated by the CEIP-I. Provide suggestions and guidance for improvement on analysis and techniques for deriving the outputs;
- Meet as a panel to discuss the quality of different outputs completed at various stages of the project and to pinpoint quality issues to be addressed and explored further;
- Provide advisory input on social, environmental, technical, geo-morphological, resettlement, community initiatives and long term plans for operation and maintenance during the implementation of CEIP-I; and
- Provide guidance and advisory inputs when needed and as asked by the PMU or the Project Steering Committee

2. Key Functions of the the Hydrodynamic and Coastal Modelling Expert:

The tasks of the Expert shall include but not necessarily be limited to the followings:

- Suggest and guide in establishing pertinent parameters for all hydrodynamic and coastal modelling excercises in terms of areas, boundary conditions, accuracy, grid size and model set-up;
- Advise on developing storm surge model and updating and improving of available storm surge model for the Bay of Bengal;
- Provide expert opinion on methodology of studying the long-term changes in boundary conditions in the perspective of climate change and drivers of change including the future change in the GBM river system;
- Assess the risk of storm surge considering sea level rise and wave analysis and wave modeling for computing wave run-up for the interventions;
- Review the results of the modeling activities and advise on how these should be translated into design parameters for the proposed interventions;
- Assess how the recommendations of the Long Term Monitoring, Research and Analysis of Bangladesh Coastal Zone undertaken under the CEIP-I can be translated into requirements and concepts for next phases of CEIP;

Details of assignments/ tasks of the **Hydrodynamic and Coastal Modelling Expert** are furnished in the Terms of Reference (ToR). Interested Applicant may obtain ToR in the BWDB's official website link: http://bwdb.gov.bd/index.php/site/live_tender

3. Qualifications and Experiences:

The Expert should have Ph.D in his/her field of specialization. In case of exceptionally experienced candidates the academic qualification may be relaxed to a Masters degree from an international renowned University in Civil Engineering/Coastal and/or River Engineering/Hydraulic Engineering/Water Resources Engineering/Hydraulic Modelling. He/she should have 20 years of professional experience with at least 10 years experience on relevant field like; tide, wave and storm surge modeling and strategic coastal zone management planning. He/she should have experience in risk assessment and devising mitigation measures for risk reduction in the coastal area and rivers it is preferred to have experience in similar working conditions like Ganges-Megna-Brahmapupra (GMB) Deltas.

4. Duration of the Assignment:

Duration of the consultancy services would be approximately **175 (One hundred seventy five) days** over the 3 years of the starting from **FY 2017-2018 to FY 2019-2020**. However, the contract may be extended depending on performance of the consultant and project needs.

5. Selection Procedures:

BWDB now seeks the application from eligible applicants to express their interest in providing services (complete CV with detail information about employment history with duties and responsibilities, current remuneration, academic details, major publication(if any), contract address including telephone number and e-mail) . The consultants will be selected in accordance with World Bank Guidelines: Selection and Employment of Consultants by the World Bank Borrowers, [January 2011 (Revised July 2014)]. Applicants currently in government service in the client's country may apply only if they satisfy Paragraph 1.13 (d) of the Consultant Guidelines.

6. Remuneration : Negotiable

7. Expression of interest (hard copy) must be delivered to the address below by **29-08-2017** in three sets (1 original + 2 copies) and a Soft Copy in CD (in Word Version) clearly marked "Expression of Interest" for the "**Hydrodynamic and Coastal Modelling Expert**" under **PMU, CEIP-I, (Contract Package No.CEIP-1/D1/S18)**. Applicants from abroad may submit their EoI through e-mail at address; pdpmuceip@gmail.com by the deadline. EOIs received after the last date of submission will

not be considered for short listing. BWDB will not be responsible for any delay in submission including delay due to postal or any other reason.

8. Interested Consultants may obtain further information at the address below during normal office hours.
9. The authority reserves the right to accept or reject any or all the EOIs, or annul the process at any stage without assigning any reason(s) whatsoever and without incurring any liability to the affected applicant(s)



(Md. Delwar Hossain)
Chief Engineer & Project Director
CEIP-1, BWDB
House-15(4th Floor), Road-24
Gulshan-2, Dhaka-1212, Bangladesh
Tel: +880-2- 9899363, 9899373
E-mail: pdpmuceip@gmail.com
Web site: www.bwdb.gov.bd

