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**Royal Government of Bhutan
Ministry of Infrastructure and Transport
Department of Surface Transport**

MoIT/DoST/DGD/19/2023-2024/234

3rd April 2024

**REQUEST FOR EXPRESSION OF INTEREST(REoI)
INDIVIDUAL BRIDGE AND STRUCTURAL SPECIALIST CONSULTANT**

1. The Royal Government of Bhutan has received an Advance from the World Bank towards the cost of preparatory activities for the proposed “**Accelerating Transport and Trade Connectivity in Eastern South Asia (ACCESS)-Bhutan Project**”, to be implemented by the Department of Surface Transport, Ministry of Infrastructure and Transport, Thimphu and intends to apply a part of the proceeds of this Advance for the services of hiring of the Individual Bridge and Structural Specialist Consultant.
2. **Scope of Services:** As a key member of the ACCESS Project Implementation Unit (PIU), the Individual Bridge and Structural Specialist Consultant will perform the following duties/tasks (Terms of Reference):
 - a) Review the available secondary data on climate, hydrology, topography, geology, seismicity, traffic patterns, etc. to check the bridge design parameters. Familiarize herself/himself with the Bhutan bridge design code and related aspects.
 - b) Check the appropriateness of the bridge location, type, span, and width based on the submitted design by the firm tasked with the design.
 - c) Check the standards, codes, and methodology used in design.
 - d) Check the relevancy and reliability of the analysis and design software used.
 - e) Check the constructability of the reviewed designs at the proposed location.
 - f) See if all the required work items, equipment and materials required for the proposed bridge are considered in the Bill of Quantities and Specifications.
 - g) Review the design from a value engineering perspective and find ways to optimize costs.
 - h) Ascertain the quality assurance tests required for construction materials, piles and other bridge elements.
 - i) Ascertain the need to change the type and depth of the designed foundation and other bridge elements due to unforeseen factors during construction.
 - j) Provide suggestions to resolve contractor’s claims and variation proposals.
 - k) Guide, train and support the Employer’s technical staff on manual and software-based reviews of the designed bridge elements.
 - l) Help to introduce more cost-effective measures for bridge construction.



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- m) Help with capacity enhancement of the Bridge Division of DOST.
- n) Suggest specific technical interventions and adaptive measures against climate change vulnerabilities.
- o) Review the technical guidelines and standards used by the Employer on bridge design and maintenance, and if necessary, suggest policy-level interventions in planning, designing and constructing bridges.
- p) Identify appropriate relevant training opportunities and field visits for the Employer's technical staff.
- q) Any other bridge/structure-related tasks requested by the employer.
- r) Visit sites to verify if needed or asked by the employer

Duration: The consultant will be selected for 1 year with intermittent input of 30 days within 12 months. The contract duration may be increased based on the need of the Project and the performance of the consultant.

3. Selection Procedures:

The Department of Surface Transport, Ministry of Infrastructure and Transport, Thimphu now invites eligible applicants to submit an Expression of Interest (EOI) for providing the services. The interested applicants need to provide information demonstrating that he/she has the required qualifications and relevant experience to perform the services. The selection criteria are:

- **Academic Qualification.** Graduate in Civil Engineering, preferably master's degree in Bridge Engineering, Structural Engineering, or a related topic.
- **Experience.** 15 years of general experience as a Structural Engineer in bridge design, imparting training on the design, construction, and maintenance of bridges. Specific experience in designing and construction-phase backstopping for over 2,000 m of RCC-girder, pre-stressed, box-girder, and steel bridges. At least two bridge design and one construction project completion experience are required. Proficient in the use of at least two different analysis and design software packages. Advanced user of MS Excel or other tools to review or develop cost estimates. Designing and construction-phase backstopping of bridges parallel to existing bridges will be an advantage.
- **Language.** Fluency in written and spoken English.

Applicants are required to submit their EOI, comprising of a CV (including employment history with duties and responsibilities) and a forwarding letter describing briefly the reasons that the applicant considers him/herself best suited to perform the assignment.

The attention of interested Individual Consultants is drawn to paragraphs 3.14, 3.16, and 3.17 of the World Bank's "Procurement Regulations for IPF Borrowers, July 2016" ("Procurement Regulations"), setting forth the World Bank's policy on conflict of interest.



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- a) The detailed Terms of Reference (TOR) and other information will be available upon request from the address provided below either through email or in person. ToR is also available at www.moit.gov.bt or on request from phuntshor@moit.gov.bt.
- b) The Individual Consultant will be selected following the Selection of Individual Consultant method of the World Bank Procurement Regulations for IPF Borrowers, September 2023.
- c) Expression of Interest needs to be submitted (either through email or in person or by mail) to the following address by 17:00 hours on 19th April 2024. Please clearly mention “Expression of Interest (EOI) for Selection of Individual Bridge and Structural Specialist Consultant in the email’s subject line or on the top of the envelope.
- d) The authority reserves the right to accept or reject any or all EOI without assigning any reason, whatsoever.