

REQUEST FOR EXPRESSIONS OF INTEREST (CONSULTING SERVICES – INDIVIDUAL)

COUNTRY: GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN

NAME OF PROJECT: OBIGARM NUROBOD Rd PROJECT LONG BRIDGE and APPROACHES

Grant No.: S0309A

Assignment Title: Project Implementation Support – **Bridge Architecture Specialist**

Reference No.: AIIB/SF/ONRdPLB/PIU/IC-04

The *Government of the Republic of Tajikistan* has received financing from the Asian Infrastructure Investment Bank (AIIB) toward the cost of the *Obigarm Nurobod Rd Project Long Bridge and approaches*, and intends to apply part of the proceeds for consulting services.

The overall objective of the consulting services (“the Services”) includes the followings:

The overall objective of the assignment is to provide the **technical support to the PIU** during preparation of the AIIB funded Section 3 of the Works for the Long Bridge and Approaches. The technical support will require the input from an individual, independent bridge architecture specialist with wide experience in the architectural design of major cable-based long span bridges, including suspension bridges, cable stayed bridges and as well as other major types of long bridges. The specialist selected for the required technical support will be required to carry out a detailed review of the work outputs done by the an **External Design Consultant** earlier selected and to provide written reports on the feasibility studies for the bridge conceptual designs, options study, designs for selected option, works and performance specifications, drawings and other technical and Tender Documents for **Design, Build, Operate and Maintain (DBOM) contract format using output and performance indicators**.

The detailed **Terms of Reference (TOR)** for the assignment is attached as an Appendix 1.

The *Ministry of Transport/Projects Implementation Unit for Roads Rehabilitation* now invites Expression of Interest (EOI) from eligible “Consultants” to indicate their interest in providing the services fulfilling requirements of TOR. Interested Consultants should provide their latest CV with information demonstrating that they

have the required qualifications and relevant experience to perform the Services. The broad shortlisting criteria are as follows:

Qualifications:

- MSc (Master's degree) or higher education in a recognized University with major in in architecture, structural engineering or equivalent
- Professional qualification in architecture
- 20 years' experience in architecture
- Specific expertise in the architecture of major bridge structures.
- Fluent knowledge of English (writing, speaking and reading) is a requirement;

The attention of interested Consultants is drawn to Section II, paragraph 4.4, and paragraph 4.9 of the AIIB's "Procurement Instructions for Recipients" June 2, 2016, setting forth the AIIB's policy on conflict of interest and eligibility.

A consultant will be selected in accordance with the AIIB Procurement Policy and its associated Interim Operational Directive on Procurement Instructions for Recipients. AIIB's Policy on Prohibited Practices will apply to all contracts.

Expression of Interest must be delivered in a written form along with a CV to the address below in person, or by e-mail by **January 20, 2023**. EOI arriving after the deadline will not be considered. The copy of your CV shall be incorporated into a PDF document.

Attn: Mr. N. Arabzoda, Executive Director
Project Implementation Unit for Roads Rehabilitation
Ministry of Transport of the Republic of Tajikistan
14 Ayni Street, 2th Floor
Dushanbe, 734042, Tajikistan
Telephone: +(992 37) 222 20 76
E-mail: piurr@bk.ru

Appendix 1

Terms of Reference for Bridge Architecture Specialist for Section 3 Obigarm to Nurobod – Long Bridge and Approaches

(January 02, 2023)

1. BACKGROUND

The Government of Tajikistan, represented by the Ministry of Transport, is constructing a 75 km long alternative alignment of the existing M41 highway connecting the northeast region of Tajikistan and the Kyrgyz Republic, located between Obigarm (km 72) and Nurobod (km 158). The existing highway will be inundated by the reservoir of the Rogun Hydropower Project (HPP), currently under construction.

The M41 highway is of regional importance, reflected by its position on Central Asia Regional Economic Cooperation (CAREC) Corridors 2, 3 and 5.

The M41 highways project is divided into three sections:

Section 1: Obigarm to Tagikamar (km 0+000 to km 30+217)

Sub-Section 1: Javoni – Kandak

Sub-Section 2: Gazakyon – Sebnok (Lugar)

Sub-Section 3: Hakimi - Siyohgulak

Section 1 is approximately 30 km long and includes Bridges No. 1 through No. 6, Tunnel No.1 (Kandak Tunnel, 1.6 km), Tunnel No.2 (Karagach Tunnel, 1.7 km), and local access roads of 30 km.

Section 1 is funded by the Asian Development Bank (ADB) and by the OPEC Fund for International Development (OFID).

Section 2: Tagikamar to Nurobod (km 30+217 to km 75+600, less the bridge in Section 3)

Section 2, Sub-Section 4: Mudzhihrv – Alihodzha

Section 2, Sub-Section 5: Alihodzha – Tuthor

Section 2, Sub-Section 6: Tuthor – Kabudiyon ((Samsolik)

Section 2, Sub-Section 7: Kaboudiyon – Humdon

Section 2 is approximately 44 km long and includes Bridges No. 7 through No. 13, Tunnel No. 3 (Tagikamar Tunnel, 2.6 km), local access roads 40 km, and a temporary long bridge over the Rogun HPP Reservoir at Darband over the Surhkhob River.

Section 3: Bridge over Rogun Reservoir (km 72+900 to km 74+303)

Section 3 includes design and construction of a 760-meter-long permanent bridge across the Rogun Reservoir, as well as 640 meters of bridge approaches (the

Project). There are also potential options under consideration to extend the length of the bridge to 990 metres, with a corresponding reduction in the length of the approaches.

Section 3 is proposed to be funded by the Asian Infrastructure Investment Bank (“the Bank” or “AIIB”), supported by a grant financing for the project preparation.

The Project is a government priority, as reflected by its inclusion in the National Development Strategy. The project is also consistent with the CAREC Transport and Trade Facilitation Strategy 2020 and will contribute to achieving goals three (good health and well-being) and nine (industry, innovation and infrastructure) of the UN sustainable development goals.

The Ministry of Transport (MoT or “the Client”), which is responsible for the administration of the Republican Road Network of Tajikistan, will be in charge of overall project implementation.

To manage projects in the road, sector the **Projects Implementation Unit for Roads Rehabilitation (PIURR)** has been established by the decree of the Government of Tajikistan under the MoT. In addition, **a dedicated Project Implementation Unit (PIU) for the management of the Section 3, has been established under the PIURR.**

2. OBJECTIVES

The overall objective of the assignment is to provide the **technical support to the PIU** during preparation of the AIIB funded Section 3 of the Works for the Long Bridge and Approaches. The technical support will require the input from an individual, independent bridge architecture specialist with wide experience in the architectural design of major cable-based long span bridges, including suspension bridges, cable stayed bridges and as well as other major types of long bridges. The specialist selected for the required technical support will be required to carry out a detailed review of the work outputs done by the an **External Design Consultant** earlier selected and to provide written reports on the feasibility studies for the bridge conceptual designs, options study, designs for selected option, works and performance specifications, drawings and other technical and Tender Documents for **Design, Build, Operate and Maintain (DBOM) contract format using output and performance indicators.**

The Specialist (otherwise defined as the Consultant under Section D3 of the Contract, which means the person who will provide the services under the Contract for provision of the services of the Bridge Architecture Specialist), will liaise closely with the other Project Support Consultants, who are assisting the PIU, with the overall implementation of the project, but on a part time basis.

The Specialist will be required to familiarize themselves with all technical documents related to the Project.

Through the engagement of the Specialist, the Client will be introduced to the best international practice in the field of architectural design for long span bridges. In that respect, the Specialist will prepare and present, from time to time, slide

presentation of various aspects of the architectural design of long bridges, specifically related to cable type of bridges.

3. SCOPE OF WORK

Further to the above Objectives, the Specialist will focus on the following activities, but not limited to:

- a) Review and provide written comments from an architectural point of view on the proposed options to be considered during the initial Options Study, which shall include at least three main bridge options (balanced cantilever, cable-stay, extra dose etc.) as well as a series of relevant sub-options for each bridge type (deck materials, span arrangements, foundation types, pylon height etc.).
- b) Review and provide written comments on the proposed architectural design criteria, standards work and performance specifications and design methodologies to be applied for the bridge and associated landscaping works.
- c) Review and provide written comments on the draft Options and Feasibility Study Report from an architectural point of view, including the methodology used by the External Design Consultant in assessing the visual impact of the bridge and associated landscaping works.
- d) Oversee and contribute to the decisions regarding the preparation and use of the 3D models, under preparation by the External Consultants.
- e) Identify any specific architectural issues to be addressed by the External Design Consultant during the Preliminary design phase.
- f) Review and provide written comments on the architectural aspects of Preliminary Design of the selected option, including on the extent to which it provides a feasible basis for contracting the works using a DBOM contracting. This includes, but not limited to the level of detailed and provided works specifications, typical drawings and specific instructions related to the type of bridge selected for implementation.
- g) Review and provide written comments on the External Design Consultant's proposals for output and performance-based criteria and the associated implementable and fully measurable milestones and their payment schedule within the overall lump sum cost for the bridge, as they relate to architectural works.
- h) Review and provide written comments on the architectural aspects of the Employer's Requirements and other technical specifications, including choices of materials to be used, as well as the proposed output and performance-based criteria for measurement, acceptance/remedies and payment of the finished architectural works of the long bridge and its approaches.
- i) Review and provide written comments on the architectural aspects of the draft Preliminary Design Report and associated documentation, making sure that the outputs are prepared to the required quality, leading to a successful Tendering of the Project, with all required documentation for procurement and implementation of the associated works of the Project.

- j) Review and provide written comments on the architectural aspects of the final Preliminary Design Report and associated documentation, confirming that the received comments and suggestions by the Project peers have been fully incorporated.
- k) Review and provide written comments of the architectural Technical Documentation required for Tender Documents for DBOM contract.

4. IMPLEMENTATION ARRANGEMENTS

The assignment is expected to start in January 2023 and will have a **duration of 7 months**. The Specialist shall perform his services remotely from the Specialist's home office and in the Client's offices in Dushanbe, Tajikistan, depending on the situation related to the COVID 19 pandemic limitation of movement and flights.

The total work days are calculated as:

- At home office: 10 working days
- In Dushanbe office: 16 working days
- Traveling: 2 working days (for one trip)

The services will be provided, during the course of the project implementation/preparation. The exact input during each month will depend on the requirements of the Project. At end of each month, the Specialist shall provide for PIU management approval and payment a monthly Invoice specifying the work done and time provided. Travelling days directly from the Specialist's home office to Dushanbe are considered as working days.

The Specialist will use its own necessary computer hardware and software required to deliver the services.

During visits to Tajikistan, the Client will provide the Specialist with appropriate furnished office space within the PIU. These facilities will be provided free of charge by the Client. A per diem for accommodation and subsistence, as well the costs of international travel, will be reimbursed by the Client in accordance with the Contract, subject to prior approval by the Client of missions to Dushanbe. In addition, the Client will support and facilitate issuing of required visa for visit to Tajikistan.

All available Project information including copies of critical documentation such as outputs from previous studies will be made available to the Specialist by the PIU. All received Project material belongs to the Client and can't be shared with any other person of institution. Prohibited sharing will result in breach of the contract.

5. REPORTING AND DELIVERABLES

The following reports shall be prepared by the Specialist during the course of the Services:

- a) A brief **Inception Report**, setting out the proposed approach to the Project, the inputs foreseen, the key challenges to be addressed during the assignment;
- b) Reviews and Reports on specific issues indicated in the Section 3 above (Scope of Works, items “a” to “k”); and
- c) Final Report, including a review of all tasks undertaken by the Specialist, along with recommendations for any further support to be provided for under the project.

NOTE:

The Specialist shall report to the PIU’s nominated representative on all aspects of his assignment. The Specialist shall liaise closely with the PIU Project Support Consultant as necessary.

The Specialist will provide deliverables addressing in detail all tasks as specified in section 3 of this Terms of Reference. All deliverables will be prepared and delivered by the Specialist in the English language

All Project reports issued by the Specialist shall be reviewed and approved by the PIU in a shortest possible time. A period of up to two calendar weeks shall be allowed for this review and approval.

6. PROFESSIONAL QUALIFICATION OF THE SPECIALIST

The Specialist will have recognized/proven high-level international experience in the architectural design of bridge structures of a comparable size and scope. The Consultant will have knowledge and experience of the development of architectural projects for multiple types of long span structures. In addition, he/she will have proven and evident experience in providing independent technical, financial and operational opinions and advice of high value to Clients.

The Specialist will have at minimum the following professional academic credentials, experience, and qualifications:

- BSc, preferably MSc (Master’s degree) from a recognized University. with major in architecture, landscaping or equivalent
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- 20 years’ experience in architecture, landscaping of major public objects monuments and structures.
- Specific expertise in the architecture of major bridges.
- Fluent knowledge of English (writing, speaking and reading|).