

# **REQUEST FOR EXPRESSIONS OF INTEREST (CONSULTING SERVICES – INDIVIDUAL CONSULTANTS)**

**Republic of Serbia**

## **The Western Balkans Trade and Transport Facilitation Project (WBTF)**

Project ID No. P162043

### **Assignment Title:**

### **Individual Consultant (part time) – Technical Assistance to Support Procurement and Contract Management for Identified Intelligent Transport Systems' (ITS) Priorities in Serbia, Reference No. SER- WBTF -IC-CS-20-10-2**

The International Bank for Reconstruction and Development (IBRD) has granted to the Republic of Serbia (RoS) EUR 35 million loan for The Western Balkans Trade and Transport Facilitation Project (WBTF). WBTF project is a part of a Multiphase Programmatic Approach covering in the first phase Serbia, Albania and North Macedonia supporting a combination of investments, technical assistance and regulatory and institutional reforms. WBTF project aims to support Western Balkans' governments to promote deeper economic integration, within the region and the EU by assisting with the implementation of measures aiming at: facilitating cross-border movement of goods, enhancing transport efficiency and predictability and enhancing market access for trade in services and investments.

RoS intends to apply part of the proceeds to payments for consulting services to be procured under this project.

The assignment aims to carry out activities which would be used as inputs and basis for implementation of Component 2 of the Project – implementation of ITS in Serbia. The activities include:

- Preparation of ToR for supervision services for identified ITS priorities and assistance to PIU/CFU in preparation of procurement documents (RfP),
- Preparation of full technical and functional requirements/specification including budget breakdown, for priority short term ITS applications determined as priorities in the previous period and assistance to PIU/CFU on preparation of BDs. BDs shall include all required technical and functional specifications, financing requirements, target performance, monitoring mechanisms, etc. detail designs request for ITS components, which are recommended for immediate deployment within the identified locations. Type of procurement will be design, supply and install, considering the World Bank Procurement Regulations;
- Support PIU during procurement process and contract signature with selected consultant/bidder;
- Support PIU for contract management for both, supervision services and work contract;
- Other activities per instruction of the Head of PIU.

The consultancy will commence in May 2022 and it is expected that the period over which the Consultant shall provide the Services will be 24 months, or any other period as may be subsequently agreed by the parties in writing. The estimated number of person-days required for the assignment is 240 staff-days. However, the Consultant is free to propose his/her own level of effort based on the needs of the assignment as per this ToR.

The Consultant must possess, at the minimum, the following qualifications:

- Master's degree in transport engineering or related fields,
- 10 years of general experience,
- 8 years of expertise in ITS design, planning and implementation,
- Proven track record of work in the area of ITS,
- Experience in ITS design and practical project implementation within Europe, and EU norms and standards
- Experience in preparation of technical specifications/requirements for ITS technology/equipment
- Strong experience in leading ITS projects,
- Thorough understanding of ITS Architectures and standards, practical experiences in ITS deployments, and working knowledge of hardware components included in ITS technology,
- Excellent written, communication and presentation skills in English,
- Excellent interpersonal communication, coordination and planning skills,
- The Consultant must be an individual that has no direct or indirect affiliations (financial or otherwise) with ITS product manufacturer/vendor and must disclose any associations that may affect the impartiality of the study outcome.

The detailed Terms of References for the above referenced consulting services is posted on the official website of the Ministry of Construction, Transport and Infrastructure <https://www.mgsi.gov.rs/en/dokuments/request-expressions-interest-consulting-services-individual-consultants>.

The CFU of the Ministry of Finance now invites eligible individual consultants to indicate their interest in providing the above services. Interested consultants must provide Cover Letter and CV representing description of similar assignments, experience in similar conditions and availability of appropriate skills (scanned diplomas to be sent with CV).

The evaluation criteria for the assignment:

- Specific Experience relevant to the Assignment (60 Points)
- Qualifications and Competence relevant to the Assignment (40 Points)

The attention of interested Consultants is drawn to paragraph 3.16 and 3.17 of the ***World Bank's Procurement Regulations for IPF Borrowers – Procurement in Investment Project Financing Goods, World, Non-Consulting and Consulting Services, July 2016, revised November 2017 and August 2018*** (“the Regulations”) setting forth the World Bank's policy on conflict of interest.

A Consultant will be selected in accordance with the *Open Competitive Selection of Individual Consultants* as set out in the Regulations.

Interested consultants may obtain further information from the CFU at the address below from 09:00 to 15:00 hours.

Expressions of interest **in English language** must be delivered to the e-mail address below by **May 9, 2022, 12:00 Noon**, local time.

When submitting Expressions of interest please indicate assignment and reference number for which you are applying.

<b>Contact:</b>	<b>E-mail:</b>	<b>Address:</b>
To:	<a href="mailto:zorica.petrovic@mfin.gov.rs">zorica.petrovic@mfin.gov.rs</a> Ms. Zorica Petrović Procurement Specialist	Ministry of Finance Central Fiduciary Unit 3-5 Sremska St 11000 Belgrade, Serbia
Cc:	<a href="mailto:liljana.dzuver@mfin.gov.rs">liljana.dzuver@mfin.gov.rs</a> <a href="mailto:liljana.stojic@mgsi.gov.rs">liljana.stojic@mgsi.gov.rs</a>	Tel/Fax: (+381 11) 765 2587

## TERMS OF REFERENCE (TOR)

### Technical Assistance to Support Procurement and Contract Management for Identified Intelligent Transport Systems' (ITS) Priorities in Serbia

#### Background

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The International Bank for Reconstruction and Development (IBRD) launched the Multiphase Programmatic Approach to facilitate the achievement of the Western Balkans Governments' goal of reducing trade costs and increasing transport efficiency. The Program includes two phases: i) phase 1 includes Albania, North Macedonia and Serbia, and ii) phase 2 other beneficiaries in the Western Balkan. For the purpose of financing of the Western Balkan Trade and Transport Facilitation Project (WBTTTF), part of Phase 1 of the Program, IBRD has granted to the Republic of Serbia (RoS) EUR 35 million loan to support a combination of investments, technical assistance and regulatory and institutional reforms. At the regional level, the Secretariat for Transport Community Treaty (TCT) will play the role of the regional coordination and liaison office for the Western Balkans Six, for all the transport related dimensions of the project. The CEFTA Secretariat will play the same role for the trade elements of the proposed Project. At the national level, Project Implementation Unit (PIU), within the Ministry of Construction, Transport and Infrastructure of Republic of Serbia (MCTI), has primary responsibility for Project execution ensuring that the Project development objectives are met.

The Project consists of 4 Components whereas the Service described under this Terms of Reference is expected to be carried out as a part of the 'Component 2: Enhancing transport efficiency and predictability' with special focus on the implementation of the Intelligent Transport Systems (ITS) in Serbia. ITS can significantly contribute to a cleaner, safer and more efficient transport system by applying various information and communication technologies to all modes of passenger and freight transport. Moreover, the integration of existing technologies can create new services. The cumulative impact of low utilization rates of available infrastructure and low conversion efficiency and sub-optimal resources has resulted in uncompetitive transport costs (in many cases cross-subsidized by inadequate environmental protection) and the transport interconnections, insufficient to support the free flow of goods and people. Hence ITS systems are key to support jobs and growth in the transport sector.

ITS subcomponent of the WBTTTF project is also aiming to increase the climate-resilience of transportation networks with the introduction of ITS, more specifically with the installation of a new set of IoT weather sensors and an early warning system along corridor X. The IoT weather sensors will become part of the respective country meteorological services' monitoring network, which will use the data to further refine their predictions and emit regional alerts related to extreme weather events (such as storms, flooding events, etc.). This information will be sent to the ITS control centers which, following a previously designed protocol, will display warning messages along the potentially affected areas and provide alternative routing and safety recommendations to road users. The control centers will also have direct access to the IoT weather sensors' data in order to display warning messages on real time weather conditions and improve communication and responses in the event of a natural disaster.

ITS application deployment in Serbia is still in its infancy. Currently, ITS has been and is being implemented only on some sections of Corridor X, while toll payment (together with e-toll) exists on all segments of Corridor X and Route 4. Current state can be considered as advantage because Republic of Serbia can avoid the friction of legacy systems and easily build a state of the art ITS Architecture at national level,

providing specifications that enable compatibility of information delivered to end users through different media.

There are no established methodologies to evaluate the economic benefits and costs of the implementing the ITS. ITS deployment can be evaluated using various Cost-Benefit methods, such as "sketch-planning", "before-and-after" studies, multi-criteria analysis (MCA) or simulation. However, all these require a data collection and treatment effort that cannot be undertaken before the start of the Project activities. Available data is also not detailed enough at this point to justify the use of such advanced techniques. To this end, the Government of Serbia decided to develop and implement ITS Strategy and Action Plan through the WBTF project, and process of selection the consultant for this is in final stage. It is expected that development of ITS Strategy will commence in May 2022.

In addition, the Ministry of Construction, Transport and Infrastructure of Republic of Serbia (MCTI), Corridors of Serbia and Roads of Serbia (Beneficiaries) intend to engage a highly qualified individual international consultant to provide support for procurement of ITS priorities, identified in the previous period by the international consultant and approved by the MCTI and the Beneficiaries, and contract management. The successful candidate will work closely with the MCTI, the Beneficiaries and Project Implementation Unit (PIU) and other relevant national and regional stakeholders to ensure that the ITS related activities of the Project are managed efficiently both technically and in compliance with the objectives of the Project documents.

## Objective

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The objective of 'Component 2 - Implementation of ITS in Serbia' is to develop a desirable intelligent transport system that could support improvements in congestion management, incident detection and recovery, advice on diversion and rerouting, real time travel information, using of V2X concepts, and better journey time estimate. Harmonization or interoperability of systems is also essential for seamless and safe cross border transport movements.

More specific objective is to provide support for procurement and installation of equipment for identified priorities, with the aim of more efficient and safe traffic running.

## Scope of the work

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The assignment aims to carry out activities which would be used as inputs and basis for implementation of Component 2 of the Project – implementation of ITS in Serbia. The activities include:

- Preparation of ToR for supervision services for identified ITS priorities and assistance to PIU/CFU in preparation of procurement documents (RfP),
- Preparation of full technical and functional requirements/specification including budget breakdown, for priority short term ITS applications determined as priorities in the previous period and assistance to PIU/CFU on preparation of BDs. BDs shall include all required technical and functional specifications, financing requirements, target performance, monitoring mechanisms, etc. detail designs request for ITS components, which are recommended for immediate deployment within the identified locations. Type of procurement will be design, supply and install, considering the World Bank Procurement Regulations;
- Support PIU during procurement process and contract signature with selected consultant/bidder;
- Support PIU for contract management for both, supervision services and work contract,

- Other activities per instruction of the Head of PIU.

## Deliverables and timeline

The consultancy will commence in May 2022 and it is expected that the period over which the Consultant shall provide the Services will be 24 months, or any other period as may be subsequently agreed by the parties in writing. The estimated number of person-days required for the assignment is 240 staff-days. However, the Consultant is free to propose his/her own level of effort based on the needs of the assignment as per this ToR.

The consultant shall work under the direct supervision of Head of PIU. The consultant will work closely with the persons nominated by Corridors of Serbia and PI Roads of Serbia for this contract and in close consultation with the designated World Bank Task Team staff and MCTI representatives.

Deliverables	Description	Due date
Draft ToR for supervision services	Draft ToR for procurement of supervision services with detailed descriptions of activities required	1 month following commencement date
Final ToR for supervision services	ToR revised per comments and/or suggestions, if any, received from the Client, Beneficiaries and the Bank	2 weeks following receipt of comments
Draft technical specifications/sections of the BD for ITS implementation	Draft technical and functional specifications/sections of the BD	2 months following commencement date
Final technical specifications/sections of the BD for ITS implementation	Technical and functional specifications/sections revised per comments and/or suggestions, if any, received from the Client, Beneficiaries and the Bank	2 weeks following receipt of comments
Monthly Progress Reports	The Report should include short description of status of progress, problems encountered, if any, corrective actions needed, rationale for actions, meetings held during reporting period and any further comments relevant for the reporting period	Within five (5) days after the end of the month for which the report is due

In addition, the Consultant shall prepare ad-hoc reports on any major issues raised during Project implementation, at the Head of the PIU, Client or Bank's request.

If and when necessary, the Project Coordinator, the Bank Task Team and the Consultant may agree to make adjustments to the task descriptions or the time frame for deliverables. The Consultant shall submit all deliverables in English language.

The appointed entity(ies) will provide all relevant documents needed for execution of the tasks. In addition, they will provide logistical support for the work carried out in the field and preparation of field visits. More precisely, they are also responsible for provision of fully equipped office space, with access to Internet, printing and document binding.

## Competences and experience required

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The Consultant must possess, at the minimum, the following qualifications:

- Master's degree in transport engineering or related fields,
- 10 years of general experience,
- 8 years of expertise in ITS design, planning and implementation,
- Proven track record of work in the area of ITS,
- Experience in ITS design and practical project implementation within Europe, and EU norms and standards
- Experience in preparation of technical specifications/requirements for ITS technology/equipment
- Strong experience in leading ITS projects,
- Thorough understanding of ITS Architectures and standards, practical experiences in ITS deployments, and working knowledge of hardware components included in ITS technology,
- Excellent written, communication and presentation skills in English,
- Excellent interpersonal communication, coordination and planning skills,
- The Consultant must be an individual that has no direct or indirect affiliations (financial or otherwise) with ITS product manufacturer/vendor and must disclose any associations that may affect the impartiality of the study outcome.

## Terms of Payment

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The Contract will be the Standard World Bank Time Based Contract. The payments will be made on monthly basis for Services rendered against time actually spent on the services, at the rate(s) per day spent (subject to a maximum of eight hours per day), in accordance with the agreed rates. The Contract costs will include remuneration and reimbursable expenses reimbursed against presentation of related documents (i.e. invoices and receipts).

## Selection of Consultant

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The Consultant will be selected applying Open competitive method as set out in the World Bank's Procurement Regulations for IPF Borrowers (July 2016, revised November 2017 and August 2018).

The candidates will be evaluated applying the following evaluation criteria:

- Qualifications and General experience ( 40 Points)
- Specific Experience relevant to the Assignment ( 60 Points)

The Consultant is eligible and his selection does not create any conflict of interest as provided in the Bank's Procurement Regulations.

## Confidentiality

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The Consultant undertakes to maintain confidentiality on all information that is not in the public domain and shall not be involved in another assignment that represents a conflict of interest to the prevailing assignment.