

**TERMS OF REFERENCE
FOR
TRAFFIC AND TRANSPORT EXPERT
Western Balkans Trade and Transport Facilitation Project
(Part referred to Republic of Serbia)**

Background

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 (WBTTF Project). WBTTF Project is a part of a Multiphase Programmatic Approach (MPA) covering Serbia, Albania, North Macedonia and Montenegro supporting a combination of investments, technical assistance and regulatory and institutional reforms. WBTTF 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. In addition, Republic of Serbia obtained grant funds in total amount of EUR 20,051,000 from the Safe and Sustainable Transport Program. These funds are included in the Project for financing of additional investments in road (EUR 10,501,000) and railway sector (EUR 9,550,000), and will be administered by the Bank.

Objective of the Project

Objective of the Project is to reduce trade costs and increase transport efficiency in the Western Balkans. The program is structured around the following four components, which are common across the region, albeit the specific scope of activities is adjusted for each beneficiary.

Component 1: Facilitating movement of goods across the Western Balkans. The component focuses on (a) the design and adoption and implementation of the National Single Window (NSW); (b) the improvements of border crossing points and crossing points in selected trade corridors, and the implementation of Electronic Data Interchange (EDI).

Component 2: Enhancing transport efficiency and predictability. This component focuses on (a) the adoption of an Intelligent Transport System (ITS), (b) the improvement of Railway Level Crossings (RLC) and (c) Development of National Transport Strategy,

Component 3: Improve market access in services and foster regional investments - this Component is covered by grant resources from other development partners, which complements the support from the World Bank Group and

Component 4: Support Project implementation units (PIU) and provide additional technical support, including for policy coordination, operating costs, and monitoring and evaluation of the Project.

The Project implementation is anchored in the Ministry of Construction, Transport and Infrastructure (MCTI) and procurement and fiduciary roles are hosted in the Central Fiduciary Unit (CFU) within the Ministry of Finance. The MCTI will be ultimately accountable for execution of the Project activities and the Project implementation would rely on its existing structures, with the additional support of the Project Implementation Unit (PIU) that is established under the Project. Decisions will be made by the MCTI in coordination with the PIU. The PIU will have direct responsibility for Project management, coordination, and implementation/enforcement. The PIU

will report to the MCTI management and will be responsible for day-to-day Project implementation, for preparing TORs, reviewing documents, overall Project coordination, monitoring activities, safeguard and reporting.

The purpose of these Terms of Reference (ToRs) is to define the scope of work and tasks of the Individual Consultant to be selected as part of the Project Implementation Unit (PIU) of the WBTF Project.

Scope of Work

The main objective of the Traffic and Transport Expert is to plan, monitor, control and provide support on traffic management and safety issues during execution of works on increasing safety level on railway level crossings (RLCs) and installation of intelligent transport systems (ITS) equipment. This will be done in close cooperation with the Head of the PIU and other PIU staff, contractors, consultants, Ministry of Construction, Transport and Infrastructure, as the Client, Serbian Railway Infrastructure, Public Enterprise "Roads of Serbia" and Corridors of Serbia, as Final Beneficiaries, other agencies, if and when needed, and representatives of municipalities where subject activities will be implemented.

Traffic and Transport Expert will be responsible for the following duties:

- Provide project support within the PIU to Monitor and coordinate development and implementation of traffic management plans, including traffic signal timings, road/rail closures, and detour routes to minimize disruptions and ensure the safety of road/rail users during execution of contracts for increasing safety level on railway level crossings (RLCs), more closely described in attachment 1 to these ToRs and execution of contract for deployment of ITS solutions, more closely described in the attachment 2 to these ToRs;
- Monitor installation, maintenance, and compliance of traffic control devices, such as traffic signs, signals, and pavement markings as to ensure that they are in compliance with approved traffic management plans;
- Collaborate with teams of Final Beneficiaries (Serbian Railway Infrastructure, Roads of Serbia and Corridors of Serbia), supervision consultants and contractors, external stakeholders (representatives of municipalities), and relevant government agencies to coordinate Projects' activities and address traffic-related concerns;
- Visit work(s) site to monitor progress and provide on-site support, if needed;
- Provide support for all traffic and transport related contracts and services, including project level documents, strategic documents as well as technical documentation;
- Technical review of designs and contractor submissions: Review, from a traffic engineering, traffic management, and safety perspective, relevant designs, technical submissions, method statements, traffic management plans, and other documentation prepared by contractors and/or supervision consultants, and provide comments and recommendations;
- Support the PIU during the testing, commissioning, and acceptance of ITS and RLC systems, including participation in relevant inspections and tests and review of the results from a traffic management and safety perspective;
- Support the PIU in monitoring the effectiveness of implemented traffic-safety measures and identifying any adjustments required during the defects liability/operational period; and
- Review relevant operational procedures, O&M manuals, and training materials from a traffic management and safety perspective.
- Prepare reports and presentations on project progress, and recommendations for decision-makers;
- Checking of all proposed new works plans to ensure compliance;

- Other activities per instruction of the Head of PIU.

Length of assignment

The Consultant shall provide part-time services for the life of the project until November 15, 2027. The expected time effort for the assignment is up to 10 working days (80 working hours) per month.

Reporting obligations

The Consultant shall work under the supervision of Head of PIU. The consultant will work closely with the relevant key stakeholders to be identified during the tasks execution and in close consultation with the designated World Bank Task Team staff and MCTI representatives. 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 will provide Monthly Progress Reports, within 5 (five) days after the end of the month for which the report is due, to the Head of PIU describing activities conducted during the reporting period. 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.

Competences and experience required

Traffic and Transport Expert must possess, at the minimum, the following qualifications:

- 4-year university degree in transport and traffic engineering, or similar;
- 15 years of professional experience in transport sector;
- 7 years of professional experience in traffic/transport management and safety issues;
- Excellent knowledge on national legislation in transport sector, specifically in traffic safety;
- Experience in monitoring and control of implementation of traffic safety measures/systems;
- Experience in ITS traffic management systems will be a strong advantage;
- Experience in development/organizing/conducting public awareness campaigns will be strong advantage;
- Previous working experience with public institutions/public enterprises will be a strong advantage;
- Previous working experience on IFI financed projects will be an advantage;
- Knowledge of English language;
- Knowledge of Serbian language.

Facilities to be provided to the Consultant

The Client will be responsible for provision of the following:

- Fully equipped office space, with access to Internet, local telephone line, printing, photocopying and document binding;
- Access to necessary documents; and
- Where the Consultant is required to travel, to site or elsewhere in accordance with the Client's instruction, transportation and accommodation costs will be borne by the Client.

Confidentiality

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.

Selection of Consultant

The selection method is Open Competitive Selection in accordance with the procedures specified in 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 ("the Regulations").

The candidates will be evaluated applying the following evaluation criteria:

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

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Attachment 1 – Increasing safety level on railway level crossings

I. Design, Supply and Installation of the Equipment to Increase Safety at Railway Level Crossings

The scope of the contracts includes services and works for railway level crossings (in total 54) identified as weak points in rail infrastructure that significantly jeopardize traffic safety and efficiency in Serbia. The Contractors shall undertake the design services, minor civil works, supply and installation of equipment, testing and commissioning, including services related to Trainings and preparation of Operational and Maintenance Manuals (documentation) for the below listed RLCs:

Contract for Lot 1 (32 railway level crossings):

- Ruma-Šabac-branch-line junction Donja Borina – state border – (Zvornik Novi),
- Belgrade Centre – Pančevo main - Vršac – state border – (Stamora Moravita),
- Subotica - Bogojevo – state border – (Erdut)
- Lapovo – Kraljevo – Lesak – Kosovo Polje – Djeneral Jankovic – state border – (Volkovo),
- Stalać - Kraljevo – Požega,
- Crveni krst - Zajecar - Prahovo port,
- Belgrade – Mladenovac – Lapovo – Niš – Preševo – state border – (Tabanovce),
- Belgrade – Resnik – Požega – Vrbnica – State border.

Contract for Lot 2 (22 railway level crossings):

- Belgrade – Resnik – Požega – Vrbnica – State border,
- Belgrade – Mladenovac – Lapovo – Niš – Preševo – State border.

Attachment 2 – ITS projects in road sector

I. Design, Supply and Installation of an Integrated Traffic Management System on A1 Motorway of Republic of Serbia

The integrated traffic management system to be developed and installed will manage and use data from different data sources as (i) new on-site (field) equipment that will be installed within the scope of this contract and (ii) existing on-site (field equipment) that will be integrated within the scope of this contract.

The contract implementation area consists of 21 intersections upon A1 motorway (between Subotica and Preševo) where the ITS intervention works will be conducted. The Traffic Management Control Centre (TMCC) where this equipment will be hosted will be depicted by the Roads of Serbia (Beneficiary) to the Supplier.

II. Design, Supply and Installation of a Landslide / Slope Monitoring Software and Traffic Management / Monitoring System for Grdelica Gorge on A1 Motorway of Republic of Serbia

The system shall include two main sub-systems:

- a. a landslide monitoring system to detect critical parameters regarding geological, geodetic and structural aspects upon slopes and bridges and,
- b. a traffic management system to manage and inform users about incidents and traffic diversion to alternative routes.

Both sub-systems will manage on-site equipment within the implementation area. Critical information to users will be managed by the Traffic Management/ Monitoring System that will also conduct traffic management operation within the implementation area based also on incidents or alarms/ warnings that are generated by the Landslide/ Slope Monitoring Software.

The scope of this contract includes the preparation of a detailed design and system implementation in a functional environment.

The contract implementation area is on Grdelica gorge upon A1 motorway. More specifically, the landslide and structural monitoring system will monitor seven slopes and two bridges located within the scope of the state highway IA category number A1 (E-75).