

Western Balkans Investment Framework Infrastructure Project Facility Technical Assistance 6 (IPF6)

TA 2012054 R0 WBF

WB18-SRB-TRA-01

Orient/East-Med Corridor (Road R7): Detailed Design and Tender Documents for the construction of Highway E-80 in Serbia (SEETO Route 7): Niš (Merošina) to Pločnik (Beloljin),

Section 2: km 5+670.00 - km 14+300.00

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

ENVIRONMENT CATEGORY A

April 2021



IPF6 Consortium

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Version	Date of issue	Contributors	Approvers	Comments
1.0	28 April 2021	R. Radovic A. Mladenovic K. Jeftic	N. Bolland A. Trifunovic	

The Infrastructure Project Facility (IPF) is a technical assistance instrument of the Western Balkans Investment Framework (WBIF) which is a joint initiative of the European Union, International Financial institutions, bilateral donors and the governments of the Western Balkans which supports socio-economic development and EU accession across the Western Balkans through the provision of finance and technical assistance for strategic infrastructure investments. This technical assistance operation is financed with EU funds

2

CONTENTS

C	NTENTS	3
Sl	B-PROJECT DATA SUMMARY	5
LI	T OF ABBREVIATIONS	6
1	GENERAL INFORMATION	7
	1.1 Project overview	7
	1.2 SECTION 2 KM 5+670.00 – KM 14+300.00	
	1.3 Purpose of this document	
2	POLICY, LEGAL AND ADMINISTRATIVE FRAMEWORK	
	2.1 National legal framework	
	2.1.1 National Environmental Legal and Policy Framework	
	2.1.2 National Social Legal and Policy Framework	
	2.2 EBRD REQUIREMENTS (EBRD ENVIRONMENTAL AND SOCIAL POLICY)	
	2.3 EIB REQUIREMENTS	
	2.4 RELEVANT INSTITUTIONS	
3	ENVIRONMENTAL AND SOCIAL BASELINE	
_		
	3.1 ENVIRONMENTAL BASELINE	
	3.2 Social baseline	
4	SUMMARY OF ENVIRONMENTAL AND SOCIAL IMPACTS AND MITIGATION MEASURES	23
	4.1 SUMMARY OF ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES	23
	4.2 SUMMARY OF SOCIAL IMPACTS AND PROPOSED MITIGATION MEASURES	39
5	ENVIRONMENTAL AND SOCIAL MONITORING	54
	5.1 ENVIRONMENTAL MONITORING	54
	5.1.1 Monitoring of environmental parameters	
	5.2 Social Monitoring	
_		
6	CONTRACTOR'S SITE SPECIFIC ENVIRONMENTAL AND SOCIAL MANAGEMENT PLANS	
	6.1 LIST OF ENVIRONMENTAL MANAGEMENT PLANS TO BE DEVELOPED	
	6.2 ROLES AND RESPONSIBILITIES	73
7	IMPLEMENTATION	73
	7.1 Training, Awareness and Competence	73
	7.1.1 Induction Training and Employee Handbook	73
	7.1.2 Determining Training Program and Frequency	74
	7.1.3 'Toolbox Talk' training	74
	7.2 STAKEHOLDER ENGAGEMENT, CONSULTATION AND COMMUNICATION	74
	7.2.1 Public consultation during ESIA phase	74
	7.2.2 Public consultations during ESMP phase	<i>77</i>
	7.3 Inspection, monitoring and auditing	78
	7.3.1 Inspections	78
	7.3.2 Internal Audit	
	7.3.3 External Audit	
	7.4 REPORTING	
	7.4.1 Monthly Reports	
	7.4.2 Weekly Reports	
	7.4.3 Annual and Semi-Annual Reports	
	7.4.4 Project Construction Completion Report	
	7.5 ACCIDENTS, INCIDENTS, NON-CONFORMANCES, CORRECTIVE, PREVENTIVE ACTION AND ACCIDENT INVESTIGATION	
	7.5.1 Recording and Logging	/9

7.5.2 Accident Investigation	<i>79</i>
APPENDIX 1	81
ENVIRONMENTAL MITIGATION PLAN	81
ENVIRONMENTAL MONITORING PLAN	91
SOCIAL MITIGATION PLAN	98
Social Monitoring Matrix	115
APPENDIX 2 LOCATION CONDITIONS RELEVANT FOR THE DEVELOPMENT OF THE ESMP	1
APPENDIX 3 REPORT ON PUBLIC CONSULTATIONS	17
APPENDIX 4 GRIEVANCE FORMS	18
GRIEVANCES ADMINISTRATION	
GRIEVANCE FORM	19
APPENDIX 5 APPROPRIATE ASSESSMENT SCREENING FOR IPA LALINAČKE SLATINE	21

SUB-PROJECT DATA SUMMARY

ACTION	Sub-project implementation		
PROJECT	Detailed Design and Tender Documents for the construction of highway E-80 in Serbia (SEETO Route 7): from Niš (Merošina) to Pločnik (Beloljin), - I phase of construction Section 2 km 5+670.00 – km 14+300.00		
PROJECT CODE	WB18-SRB-TRA-01		
BENEFICIARY	Project promoter – Republic of Serbia, Ministry of Construction, Transport and Infrastructure and "Koridori Srbije doo Beograd" Beneficiary – "Koridori Srbije doo Beograd"		
SECTOR	Transport		
COUNTRY	Serbia		
LEAD IFI	European Investment Bank		
TA GRANT VALUE	EUR 4,800,000		
Assigned to IPF6	10 September 2018		
Non-Objection by CA	29 May 2019		
Commencement date	11 June 2019		
Duration (months)	26.5		
Due date for completion	28 August 2021 (excluding support to tendering and evaluation procedures)		
IPF6 Key Expert responsible	Aristides Karlaftis		

LIST OF ABBREVIATIONS

BOQ	Bill of Quantities
CD	Conceptual Design
СЕРР	Contractor's Environmental Protection Plan
CFD	Central Feedback Desk
CSC	Contract Supervision Consultant
CWMP	Construction Waste Management Plan
DD	Detailed Design (also referred to as Main Design - MD)
EBRD	European Bank for Reconstruction and Development
EIA	Environmental Impact Assessment
EIB	European Investment Bank
ES	Environmental and Social
ESIA	Environmental and Social Impact Assessment
ESMS	Environmental and Social Management System
ESMP	Environmental and Social Management Plan
EU	European Union
FRY	Federal Republic of Yugoslavia
IESC	Independent Environmental and Social Consultant
IFI	International Financial Institution
IPA	Important Plant Area
IPF	Infrastructure Project Facility
IPF4	Infrastructure Project Facility – Technical Assistance 4
IESC	Independent Environmental and Social Consultant
ILO	International Labour Organisation
KS	Koridori Srbije doo Beograd
LTA	Lenders Technical Advisor
MCTI	Ministry of Construction Transport and Infrastructure
MD	Main Design (also referred to as Detailed Design - DD)
PAP	Project Affected Person
PCC	Particular Conditions of Contract
PD	Preliminary Design
PERS	Public Enterprise Roads of Serbia
PR	Performance Requirement
RS	Republic of Serbia
SEP	Stakeholder Engagement Plan
SER	Serbia
SEETO	South East Europe Transport Observatory
ToR	Terms of Reference
WBIF	Western Balkans Investment Framework

1 General Information

1.1 Project overview

Section Merošina - Beloljin is part of the Niš-Merdare Highway E-80 in Serbia which is of high priority and significance. Highway E-80 is part of the road axis which links Bulgaria with Adriatic Sea via Serbia, Kosovo and Albania. This is Route 7 in SEETO core network, a priority highway according to the national strategy of the Republic of Serbia and the SEETO Core (high priority) Network.

Route 7, being one of the main East-West road corridors through Serbia, not only connects Niš and Pristina, but also represents the main connection with Corridor IV (which mainly crosses Bulgaria and Romania) and with Corridor X via Route 6 (Skopje-Pristina) and Route 2b (Sarajevo-Podgorica-Vlora). The E-80 section from Prosek to the Bulgarian borders has already been built and it is in use.



Figure 1 Route 7 in SEETO Comprehensive road network

According to the ToR, the scope of works comprises the highway section between Merošina interchange and Beloljin interchange. DD should be developed separately for 4 sub-sections.

Full profile of the highway was elaborated in Preliminary Design and the regulation line was defined through the Spatial Development plan of infrastructure corridor. In accordance with that, space for the future construction of both road lanes, carriageways, supporting elements of the road and earthworks on the side (slopes and canals) were occupied.

Design for Construction Permit, through the Terms of Reference, defines the construction in two phases, so that the first phase includes the construction of single carriageway in the form of an intermediate profile that will be in operation until the construction of the second phase. With this in mind, semi motorway profile (right carriageway) is elaborated through the Design for Construction Permit. Following technical parameters and structures along the road will be adjusted to the semi motorway profile.

The terms of reference for the Design for Construction Permit defined 4 separate sections to be

designed, as shown in the table below.

Table 1 Section Description

Section	1	2	3	4
Description	Merošina –	Merošina 1 –	Prokuplje East –	Prokuplje West
	Merošina 1	Prokuplje East	Prokuplje West	- Beloljin
The beginning of the section	0+477.68	5+670.06	14+300.00	24+500.00
End of section	5+670.06	14+300.00	24+500.00	32+850.00
Length cca (km)	5.19	8.63	10.20	8.35
Terrain characteristics	Flat to hilly	Hilly	Hilly to mountainous	Flat
Design speed (km/h)	100	100	100	100
Road width (m)	11.5	11.5	10.5	11.5

All technical elements of the highway in the Preliminary Design are defined in accordance with the calculated speed of 130 km/h (most of the section) and 100 km/h on the part of the bypass around the town of Prokuplje.

The design and construction in the first phase will keep the already defined geometry of the road, but for safety reasons, the allowed speed will be limited up to 100 km/h and 80 km/h respectively.

1.2 Section 2 km 5+670.00 – km 14+300.00

On this section, the route of the highway leaves the geometry of the existing state road IB row no. 35, immediately after interchange "Merošina 1". From that place, in the length of about 8.6 km, a completely new axis of the highway has been designed, having in mind the terrain and spatial limitations. The projected axis of the highway is located on the entire section, on the right side of the existing state road, looking in the direction of the chainage growth.

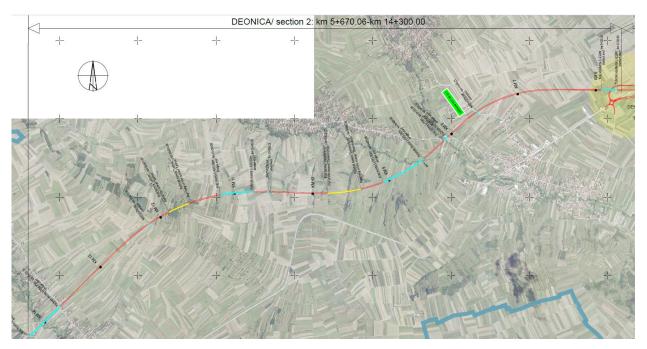


Figure 2 Highway route, Section 2



Figure 3 Junction Merošina 1 – start of the route

Having in mind the terrain restrictions of Section 2, the construction of two tunnels ("Debelo Brdo" L = 430m and "Lalinac" L = 275m) and 5 bridge constructions (210m, 70m, 635m, 385m and 560m) are planned on the highway route.

The elements of the plan and profile of the highway are largely conditioned by the topography of the terrain, as well as the spatial constraints. In this way, the horizontal axis is composed of directions and horizontal curves of radius R1 = 1600m, R2 = 2000m and R3 = 2400m.

There are no projected level crossings on Section 2. Grade-separated junctions before and after Section

2 are located at km 5 + 215 ("Merošina 1") and at km 17 + 000 ("Prokuplje East").

The "Arbanasce" parking lot is projected on the section, on both sides of the highway, with temporary connections of the left parking lot to the intermediate profile. The location of the parking lot was adopted after the analysis of the wider area, and the entire Sector 1 from Nis to Plocnik, but having in mind the planned contents on Sector 2 from Plocnik to Merdare. All the planned facilities are in sufficient proximity to populated areas, which allows short trips of staff and goods needed to function. On the other hand, they are far enough apart to meet the needs of road users.

1.3 Purpose of this document

This ESMP is prepared for the Detailed Design for the construction of highway E-80 in Serbia (SEETO Route 7): from Niš (Merošina) to Pločnik (Beloljin), I phase of construction, **Section 2 5+670.00 – km 14+300.00**, **L=8.63 km**.

The purpose of the ESMP is to present the negative environmental impacts and management problems during the construction works and operation and the necessary mitigation measures the Contractor must apply to. ESMP is a direct requirement of EBRD PR1, PR3, PR4, PR5, PR6, PR8, PR10 and EIB Environmental and Social Standards. Key components of the Environmental and Social Management Plan are: Environmental Mitigation Plan and Environmental Monitoring Plan.

The aims of this Environmental and Social Monitoring Plan (ESMP) are to:

- Identify the management plans that need to be developed by the Contractor and which will ensure compliance with EBRD requirements and proper management of the contractors;
- Describe the mitigation measures and show how the effectiveness of the mitigation will be monitored;
- Ensure that ESMP will be developed and operated according to EBRD requirements and the EIA Directive1
- Ensure that the ESMP will comply with relevant Republic of Serbia environmental legislation and other corporate and Lender requirements throughout its construction and operational phases;
- Identify roles and responsibilities; and
- Propose mechanisms for monitoring compliance.

The ESMP is a part of works program and the Contractor shall apply it through qualified and experienced staff that will be responsible for fulfilling the requests connected to the environmental protection from ESMP. The Contractor and his subcontractors will work entirely in compliance with the laws of the Republic of Serbia, EU standards and the requests of the Creditors. It is the Contractor's obligation to calculate the implementation of environmental mitigation measures in his overall cost.

The Contractor is obliged to confirm that:

- The ESMP conditions have been included into the bid price;
- The Contractor has a qualified and experienced team (at least environmental expert, social expert and expert for H&S matters) in a team who will be responsible for the environmental compliance requirements of the ESMP;
- The Contractor and its sub-contractors will comply with Republic of Serbia national laws, EU

¹ Directive 2011/92/EU on the assessment of the effects of certain public and private projects on the environment, as amended by Directive 2014/52/EU.

standards and requirements of the Creditors."

This document represents a commitment by the Beneficiary, local municipalities and local government organizations and ministries to the environmental and social sustainability and applies to the Project's entire lifecycle.

The potential impacts and associated mitigation measures and management procedures in this ESMP are based on the baseline information and assessments provided in the ESIA Study which had been prepared by IPF4 in 2018.

2 Policy, legal and administrative framework

2.1 National legal framework

2.1.1 National Environmental Legal and Policy Framework

The environmental regulations applicable to this project are numerous and diverse. Therefore, only the key requirements associated with the project have been chosen to be presented in this section. However, a full and detailed list of legislation associated with the project will be developed as part of the project management systems for construction and operation.

Serbia has largely transposed the EU regulatory requirements related to environmental impact assessment into national legislation. ESMP as well as its content is not defined within national legislative. But the preparation of plans and technical documentation in the field of the road sector as well as of their Environmental Impact Assessment is regulated by numerous regulations of the Republic of Serbia, which can be classified into two groups.

The first group refers to regulations on the development of planning and technical documentation. The key law for the preparation of planning and technical documentation is the Law on Planning and Construction ("O.G. of the RS" No. 72/09, 81/09-ex., 64/10, 24/11, 121/12, 42/13, 50/13, 98/13, 132/14, 145/14, 83/2018, 31/2019, 37/2019 - other law and 9/2020), which, inter alia, regulates both the scope and the content of spatial, urban plans and technical documentation. Strategic Environmental Impact Assessment is an integral part of different spatial plans. In our case, SEIA was a part of the Spatial plan of the special purpose infrastructure corridor highway E -80, section Niš-Merdare.

The second group of regulations is legal regulation in the field of environmental protection. The preparation of environmental impact assessment of spatial and urban plans is regulated by the Law on Strategic Impact Assessment ("O.G. of the RS", No. 135/04 and 88/10), and preparing of technical documentation by the Law on Environmental Impact Assessment ("O.G. of the RS", No. 135/04 and 36/09).

The Law on Strategic Impact Assessment ("O.G. of the RS", No. 135/04 and 88/10) regulates the conditions, manner and procedure for assessing the impact of certain plans and programs, on the environment.

The Law on the Environmental Impact Assessment ("O.G. of the RS", No. 135/04 and 36/09) regulates:

- The process of Environmental Impact Assessment,
- The content of the Environmental Impact Assessment Study,
- The participation of interested authorities and organizations and of the public,
- Cross-border notification for projects that can have significant impacts on the environment of another state,
- Supervision, and other issues of importance for environmental impact assessment.

Nature conservation is primarily regulated by the: Law on Nature Conservation (Off. Gazette of RS. No. 36/2009, 88/2010 and 91/2010 - correction, 14/2016 and 95/2018 - other law) which is harmonized with the EU Habitats Directive and the Birds Directive. Specific aspects of nature conservation are regulated by various by-laws. The Decree on Ecological Network (Off. Gazette of RS, No. 102/2010) identifies ecological network areas in Serbia and sets the management, financing, monitoring and protection requirements.

Protection of habitats and species is regulated by the:

- Regulation on the criteria for separation of habitat types, habitat types, sensitive, vulnerable, rare, and for the protection of priority habitat types and protection measures for their preservation ("Off. Gazette of RS" No. 35/2010),
- Regulation on cross-border trade and trade in protected species ("Official Gazette of the Republic of Serbia", No. 99/2009, 6/2014)
- Regulation on special technical and technological solutions that enable undisturbed and safe communication of wild animals ("Off. Gazette of RS", No. 72/10).
- Regulation on control of use and trade of wild flora and fauna ("Off. Gazette of RS", No.31/2005, 45/2005-corr., 22/2007, 38/2008, 9/2010, 69/2011, 95/2018 – other law)
- Rulebook on cross-border trade and trade in protected species ("Official Gazette of the Republic of Serbia", No. 99/2009, 6/2014)
- Regulation on the proclamation and protection of strictly protected and protected wild species of plants, animals and fungi ("Off. Gazette of RS", No. 5/2010, 47/2011, 32/2016 and 98/2016), which contains lists of strictly protected and protected wild species and protection measures. Strictly protected species according Regulation are:
 - species extinct in the Republic of Serbia and reintroduced through a reintroduction programme;
 - extremely endangered wild species;
 - endangered wild species;
 - relict species;
 - local endemite;
 - stenoendemite;
 - internationally significant and protected wild species;
 - species requiring strict protection for other reasons.

The following wild species are protected species according to the Regulation:

- vulnerable wild species;
- endemic species;
- indicator, key and umbrella species;
- relict species;
- internationally significant and protected wild species;
- species that are not endangered, but can easily be confused with an endangered species, due to appearance.

Standards for surface water quality, groundwater and sediment are regulated by the Decree on limit values of polluting substances discharged into surface water, groundwater and sediment and deadlines for compliance (Off. Gazette of RS, No. 50/2012) setting the limit values of polluting substances and

defining five classes of the ecological status: high, good, moderate, poor and bad. Limit values of parameters related to general water conditions, oxygen regime, nutrients, salinity, metals, organic matter, and microbiology are defined by the Regulation on parameters of the ecological and chemical status of surface water and parameters of the chemical and quantitative status of groundwater (Off. Gazette of RS, No.74/2011). Limit values for priority and priority hazardous substances are set by the Decree on limit values of priority and priority hazardous substances polluting surface waters and deadlines for compliance (Off. Gazette of RS, No.24/2014).

Standards for contaminated soil and groundwater are stipulated by the Regulation on the program for systematic monitoring of soil quality, indicators for evaluation of soil degradation and methodology for preparation of remediation program (Off. Gazette of RS, No.88/10 and 30/2018 other law).

Environmental noise is regulated by the Law on Environmental Noise (Off. Gazette of RS, No. 36/2009, 88/2010) as the main legislative document. The permitted noise levels are defined by the Decree on environmental noise indicators, limits values, assessment methods of the noise indicators, the nuisance and the harmful effects (Off. Gazette of RS No. 75/2010). This Decree stipulates the noise levels (Table 24), which must not be exceeded. Annex 2 of the Decree states that the defined noise limits are applied to the all-encompassing noise generated by all noise sources at the site. However, it is not stated what the appropriate noise limit is in the case of a new development, where the prevailing noise levels already exceed the stated values.

The main legislative document in Serbia regulating the **waste management** is the Law on Waste Management (Off. Gazette of RS, No. 36/2009, 88/2010, 14/2016 and 95/2018 – other law). The Law is supplemented by 29 by-law documents regulating specific waste management aspects. In 2015 the Law was revised and amended to more precisely transpose certain requirements of the Waste Framework Directive. Hazardous waste is primarily regulated by the Law on Waste Management (Off. Gazette of RS, No. 36/2009, 88/2010, 14/2016 and 95/2018 – other law) and the Regulation on Categories, Testing and Classification of Waste (Off. Gazette of RS, No 56/2010 and 93/2019).

The Ministry of Environmental protection is in charge of the country's environmental management. Cities and local municipalities are in charge of local environmental planning and issuing of local approvals and permits.

During the preparation of the Project for the construction permit, the Schematic design was made, which was submitted to the unified procedure for issuing the Location Conditions. Location conditions has been published on 10.06.2020., under number 350-02-00073/2020-14 by the Ministry of Construction, Transport and Infrastructure. Location conditions relevant for the development of the ESMP has been given by following institutions:

- Water conditions of the Ministry of Agriculture, Forestry and Water Management, Republic Water Directorate, number: 325-05-00392/2020-07 from 30.4.2020.
- Conditions of the Republic Institute for Nature Protection of Serbia, 03 number 020-955/2 from 28.5.2020.
- Conditions no. 5767 from 14.4.2020. issued by the PE for forest management "Srbija Sume"
- Conditions of the Institute for the Protection of Cultural Monuments Nis, number 391 / 2-02 dated 22 April 2020. Years

The Ministry of Environmental Protection published information number 011-00-00295/2020-03 from 9 June 2020, which explains that it is not necessary to do update of EIA/ESIA, because the legal period of its validity has not expired, also in same information it is said that Chapter 8 - environmental protection measures and Chapter 9 - monitoring prescribed by Study no. 353-02-1541/2018-03 from 31.07.2019. remain in force for the first phase of construction - a shortened section (semi-highway) for which a conceptual design has been developed.

All the above-mentioned conditions are attached in Appendix 2.

2.1.2 National Social Legal and Policy Framework

2.1.2.1 Public consultation and information disclosure framework

Serbian legislation guarantees to its citizens the right to information, i.e. that everyone shall have the right to be informed accurately, fully and timely about issues of public importance. These provisions are included in the Constitution of the Republic of Serbia: (Official Gazette of the RS, No. 98/2006), as well as in the Law on Free Access to Information of Public Importance (Official Gazette of the RS, No. 120/04, 54/07, 104/09, 36/2010).

The Law on Planning and Construction ("O.G. of the RS" No. 72/09, 81/09-ex., 64/10, 24/11, 121/12, 42/13, 50/13, 98/13, 132/14, 145/14, 83/2018, 31/2019, 37/2019 - other law and 9/2020) regulates the development and adoption of spatial and urban plans in Serbia, which are all subject to a public disclosure and consultation process.

Serbia ratified the Aarhus Convention in 2009. Provisions of the Aarhus Convention were incorporated into the environmental regulation, including the Law on Environmental Impact Assessment and the Law on Strategic Environmental Impact Assessment.

2.1.2.2 Land acquisition

Land in Serbia is legally categorized as construction land or agricultural land. According to the Law on Planning and Construction ("O.G. of the RS" No. 72/09, 81/09-ex., 64/10, 24/11, 121/12, 42/13, 50/13, 98/13, 132/14, 145/14, 83/2018, 31/2019, 37/2019 - other law and 9/2020) agricultural land can be changed into construction land through the adoption of relevant spatial plans. In the case of traffic infrastructure (railway) development, the Spatial Plan of the Special Purpose Area needs to be adopted by the relevant state authority. i.e. the Ministry of Construction, Traffic, and Infrastructure.

Land needed for construction of the public (state-funded) projects is typically acquired through expropriation, regulated by the Law on Expropriation (Off. Gazette of RS, No. 53/95, 16/2001, 20/2009, and 55/2013 - decision of the Constitutional Court and 106/2016 - authentic interpretation). The Law enables government institutions to acquire private property for projects that are deemed to be of national and/or local interest, while protecting the interests of all project-affected persons with the legal title (ownership), whose assets are to be expropriated. The Law also enshrines the principle of fair compensation. The public interested is declared by the Government through the adoption of the specific law or decision. The procedure to be followed incorporates stakeholder engagement throughout the process commencing with the proclamation of the public interest until compensation payment.

The additional laws regulating certain aspects of land acquisition and property transaction issues are the following:

- Law on Fundamentals of Property Relations (adopted in 1980, amended 1990, 1996 and 2005);
- Law of Planning and Construction (adopted and corrected in 2009, and amended in 2020);
- Law of Agricultural Land (adopted in 2006, amended in 2018);
- Law on State Survey and Cadastre (adopted in 2009, amended in 2020).

2.1.2.3 Labour and working conditions

Serbia was a member state of the International Labour Organisation (ILO) between 1919 and 1992 and restarted its membership in 2000. The country has ratified 72 ILO International Labour Standards (Conventions), including the eight fundamental Conventions.

Labour and human resource management in Serbia are primarily addressed through the Law on Labour Off. Gazette of RS, No. 24/2005, 61/2005, 54/2009, 32/2013, 75/2014, 13/2017 - decision of the Constitutional Court, 113/2017 and 95/2018 - authentic interpretation). Compliance with labour laws is monitored by the Labour Inspectorate of the Ministry of Labour and Social Policy of the Republic of

Serbia.

Other applicable laws include:

- Law on Amicable Resolution of Labour Disputes (Official Gazette of the RS No. 125/04, 104/09 and 50/2018);
- Law on Strikes (Official Gazette of the FRY No. 29/96 and "Official Gazette of RS", no. 101/2005 second law and 103/2012 decision of the Constitutional Court);
- Law on Mobbing (Official Gazette of the RS No. 36/10);
- Anti-Discrimination Law (Official Gazette of the RS No. 22/09);
- Law on Preventing Discrimination Against Persons with Disabilities (Official Gazette of the RS No.33/06 and 13/2016);
- Law on Vocational Rehabilitation and Employment of Disabled Persons (Official Gazette of the RS No. 36/2009 and 32/2013);
- Pension and Disability Insurance Law (Official Gazette of the RS No. 34/03, 64/04, 84/04, 85/05, 101/05, 63/06, 05/09, 107/09, 101/10, 93/2012, 62/2013, 108/2013, 75/2014, 142/2014, 73/2018, 46/2019 decision of the Constitutional Court and 86/2019).

2.1.2.4 Occupational health and safety framework

The Law on Occupational Health and Safety (Off. Gazette of RS, No. 101/2005 91/2015 i 113/2017 – other law) is the main legislative document regulating Occupational Health and Safety issues in Serbia. The Law was enforced in 2005 and incorporated the principles of the EU Workplace Health and Safety Directive (89/391/EEC).

The Law is based on general principles of prevention and requires: (1) avoiding risks, (2) evaluating the risks, (3) combating the risks at source, (4) adapting the work to the individual, (5) replacing the dangerous by the non-dangerous or the less dangerous, (6) prioritizing collective protective measures (over individual protective measures) and (7) giving appropriate instructions to the workers.

Enforcement of the Law is provided by the implementation of the set of by-laws (regulations and decrees) which stipulate specific requirements related to the general principles defined by the Law.

The Regulation on manner and procedure of risk assessment at workplace and working environment (Off. Gazette of RS, No. 72/2006, 84/2006 - correction 30/2010 and 102/2015) is the main legislative document related to the assessment of health and safety risks at the workplace.

Occupational health and safety are under the responsibility of the Ministry of Labour and Social Policy. Particularly, the Directorate for Occupational Health and Safety is in charge of legislation preparation and the Labour Inspectorate is competent for supervision of the legislation enforcement.

2.2 EBRD requirements (EBRD Environmental and Social Policy)

The EBRD operates under a number of policies, including the Environmental and Social Policy (2014). The EBRD requires that all projects it finances have an environmental and social appraisal that will be appropriate to the nature and scale of the project, commensurate with the level of environmental and social impacts and issues, and with due regard to the mitigation hierarchy.

The EBRD ES Policy states, "The EBRD categorizes each project to determine the nature and level of environmental and social investigations, information disclosure and stakeholder engagement required. This will be commensurate with the nature, location, sensitivity and scale of the project, and the significance of its potential adverse future environmental and social impacts. Past and present environmental and social issues and risks associated with project-related existing facilities will be subject

to environmental and social appraisal regardless of the categorization."

A project is categorized A when it could result in potentially significant adverse future environmental and/or social impacts which, at the time of categorization, cannot readily be identified or assessed, and which, therefore, require a formalized and participatory environmental and social impact assessment process. This project has been Categorised A.

To help clients and/or their projects achieve to environmental and social sustainability, the Bank has defined specific PRs for key areas of environmental and social sustainability as listed below:

PR1. Assessment and Management of Environmental and Social Impacts and Issues

This Performance Requirement outlines the client's responsibilities in the process of appraising, managing and monitoring environmental and social issues associated with projects proposed for EBRD financing. These include the following:

- identifying and assessing the environmental and social impacts and issues, both adverse and beneficial, associated with the project;
- adopting measures to avoid, or where avoidance is not possible, minimize, mitigate, or offset/compensate for adverse impacts on workers, affected communities, and the environment;
- identifying and, where feasible, adopting opportunities to improve environmental and social performance;
- developing ESMP, ESMS (Environmental and Social Management System) and E&S Policy
- promoting improved environmental and social performance through a dynamic process of performance monitoring and evaluation.

PR2. Labour and Working Conditions

This PR sets out the client's responsibilities with regards to labour and working conditions, including, among other things, the abolition and elimination of child and forced labour. The provisions of this document are based on the conventions adopted by the International Labour Organisation (ILO) and are very similar to the requirements of the Serbian labour legislation. The main difference relates to the requirement for the Bank's client to ensure that contractors involved in the project meet EBRD standards.

PR3. Resource Efficiency, Pollution Prevention, and Control

This PR requires from the client to identify project-related opportunities for energy, water and resource efficiency improvements and waste minimisation, to adopt the mitigation hierarchy approach to addressing adverse impacts on human health and the environment arising from the resource and to promote the reduction of project-related greenhouse gas emissions.

PR4. Health and Safety

This PR requires the Bank clients to identify and assess community and occupational health and safety risks associated with the project and take appropriate preventive measures. These measures will favour the prevention or avoidance of risks and impacts over minimisation and reduction.

PR5. Land Acquisition, Involuntary Resettlement, and Economic Displacement

This PR outlines requirements to be met for the projects involving involuntary resettlement and economic displacement. Involuntary resettlement refers both to physical displacement (relocation or loss of shelter) and economic displacement (loss of assets or resources, and/or loss of access to assets or resources that leads to loss of income sources or means of livelihood) as a result of project-related land acquisition and/or restrictions on land use.

PR6. Biodiversity Conservation and Sustainable Management of Living Natural Resources

This PR outlines the client's responsibilities with regards to the conservation of biological and landscape diversity in the project area. The client is required to assess the state of biodiversity, identify sensitive areas and habitats and develop appropriate mitigation measures designed to avoid/minimize the impact on flora and fauna. The client needs to adopt the mitigation hierarchy approach, with the aim of achieving no net loss for priority biodiversity features, and where appropriate, especially critical habitats, a net gain of biodiversity.

PR7. Indigenous peoples (not applicable to this project)

PR8. Cultural Heritage

This PR sets out the client's responsibilities with regards to the conservation and protection of cultural heritage, both tangible and intangible (including traditional skills, knowledge, beliefs and/or minor dialects and languages). The presence and potential for the presence of any cultural heritage assets, both tangible and intangible, in the Project area will be addressed in the ESIA.

PR9. Financial intermediaries (not applicable to this project)

PR10. Information Disclosure and Stakeholder Engagement

In particular, the EBRD requires the clients to carry out a comprehensive and systemic identification of stakeholders to identify those parties that are affected or likely to be affected by the project impacts (affected parties) and those groups that may have an interest in the project (other interested parties). Also, EBRD considers stakeholder engagement as a continuous and ongoing process that starts at a very early stage of the project and continues/evolves throughout the entire project lifecycle. The Stakeholder Engagement Plan should be developed and maintained for the Category "A" projects.

2.3 EIB requirements

European Investment Bank is driven by the policy objectives of the European Union and their principles of sustainable development, public participation, and accountability. EIB financing is preconditioned with compliance with its policy for the protection of the environment and socio-economic issues defined in the Environmental and Social Standards.

The Standards outline the importance of managing environmental and social impacts and risks throughout the life of an EIB project. They lay out promoter's responsibilities in the process of assessing, managing and monitoring environmental and social impacts and risks associated with the Project.

When the EIB is co-financing in partnership with other IFIs that have their own environment and social, pursuant to EIB's own assessment adequate implementation of those policies may prove enough to meet the EIB ES Standards.

The EIB Environmental and Social Standards are available on the following link: https://www.eib.org/attachments/strategies/environmental and social practices handbook en.pdf

2.4 Relevant institutions

During the construction and operation of highways in the Republic of Serbia, environmental protection is managed by cooperation between the following statutory government institutions.

The Ministry of Environmental protection represented by Ministry's Site Inspectors is the key institution in Republic of Serbia responsible for formulation and implementation of environmental policy matters. The Ministry is responsible for protection against noise and vibration, hazardous and toxic material, air pollution, ionic and non-ionic radiation, nature protection and international co-operation etc.

Within the Ministry they are internal units which are obliged for specific components of environmental

protection. Such as:

- Department for financial management and control
- Environmental Management Department
- Department for Nature Protection and Climate Change
- Department for strategic planning and projects
- Waste and Wastewater Management Department
- Environmental Monitoring and Precautionary Department
- Department for International Cooperation and European Integration

Beside of Ministry of Environmental protection project beneficiary, "Koridori Srbije doo Beograd" will be implementing the Project on behalf of the Republic of Serbia who will be the Borrower to the Loan Agreements signed with the IFIs. "Koridori Srbije doo Beograd" is ultimately responsible for implementation of the EBRD and EIB Environmental and Social Requirements during the preconstruction and construction phase.

"Koridori Srbije doo Beograd" has a well-structured organization implementing IFI-supported Projects since 2009. The Company has currently 124 Employees with clearly defined roles within the structure. The Land acquisition and resettlement department, within the legal department, employs more the 15 experts experienced in land acquisition and resettlement processes in line with good practice and IFI requirements, stakeholder engagement and dispute avoidance. Individual responsibilities within the department itself will be assigned separately and included in future information packages. The Legal Department will be responsible for overseeing compliance with E&S commitments and compliance towards the IFIs.

The Promoters of this Project are Republic of Serbia Ministry of Construction, Transport and Infrastructure (MCTI) and as of July 1, 2018 "Koridori Srbije doo Beograd" a government owned company. It is expected that the "Koridori Srbije doo Beograd" will be responsible for fiduciary management, procurement, contracting and monitoring of the civil works while the land acquisition is the responsibly of Public Enterprise "Roads of Serbia" as the beneficiary of the expropriation. PERS will continue to perform the role of Beneficiary to expropriation and administration of the legal process itself as well as process payments of compensation and R&R assistance. Such a division of authorities is in line with acknowledged practices in development of large infrastructure Project. Therefore, whenever reference in this document is being made to the Promoter it refers to KS and other responsible entities or institution will be named separately.

3 Environmental and social baseline

3.1 Environmental baseline

The Krajkovačka River, Lepajski Potok, Jugbogdanovačka River and the occasional watercourses Suvi Potok and Mala Padina have an intersection with the projected route of the highway on this section.

i abie	2	LIST	OJ	ımpoi	tant	watei	courses	on	tne route	?

No.	Name of watercourse	Station (km)	Permanent watercourse (Yes/No)	Crossing method L/diameter (m)	Piers in riverbed Yes/No	Length of river regulation (crushed stone)
1	Mala Padina	7+420	No	Pipe culvert,	-	-

				D=1,6m		
2	Krajkovačka River	8+105	Yes	Bridge, L=70m	No	75
3	Lepajski Stream	8+514	Yes	Bridge, L=70m	No	280
4	Jugbogdanovačka River	14+062	Yes	Viaduct,	No	113
5	Suvi Stream	14+235	No	L=500m	No	302

Climate-related hazards rated with high sensitivity are floods, landslides and soil erosion, all caused by the intense rainfall. Heavy showers may cause soil erosion, landslide or rock fall, increase ground subsidence and endanger embankments. Excess water on the highway may impact the traffic safety. Floods and river currents may damage bridges or other parts of road's infrastructure. Since the climate change simulations show a likely increase of the heavy precipitation events, both in frequency and intensity, the risk of such threats will be even higher in the future. Another hazard marked as highly sensitive is the increase in extreme temperature during summer. It is almost certain that annual and seasonal mean temperatures will continue to grow by the end of the century, as well as the intensity and frequency of days with high maximum temperatures. This may cause an asphalt melt and rutting, as well as thermal expansion of bridge joints, thus increasing the maintenance costs. High vulnerability is found for extreme precipitation, floods, landslides and soil erosion, both in the present and future climate conditions. For extreme temperatures the vulnerability in the present climate is medium, while in the future climate it is expected to be high. It may be a threat to the surface asphalt layer that has a relatively short lifespan and this issue may be addressed later through the highway maintenance.

The project envisages the installation of noise protection facilities. The height and length of the noise protection facilities were determined based on the calculation of the noise level, using CadnaA software. As a result of the calculation, the required lengths and heights of the walls were obtained.

Table 3 Noise protection walls

No.	Start of the wall	End of the wall	Side	Wall lenght [m]	wall height [m]
1	13+560.58	13+712.58	Right	152	3.00

The position of protective structures is defined in relation to the position of endangered residential buildings, while respecting safety requirements and in relation to the state road.

Because of the project setting, a comprehensive air quality baseline was not deemed necessary; however, air quality measurements at locations near the highway route have been carried out during March 2018, a time period where emissions from house heating were present. Five locations were selected in populated areas where the highway could affect air quality. The same locations were selected for noise measurements. Quality of the ambient air by determining the concentration of sulphur dioxide, nitrogen dioxide, carbon monoxide, Particulate matter PM10, and black smoke index on the spot along Highway E80, Niš-Pločnik section according to legal and technical regulations in Serbia. The values prescribed by the Regulation on the Conditions for Monitoring and Air Quality Requirements (Official Gazette of RS, No. 11/10 and 75/10, Amend 63/13) are not exceeded at all measuring points.

Location conditions issued by the Institute for Nature Protection of Serbia state that the subject highway route, almost at one point, where the construction of the "Lalinac" tunnel is planned, touches the area marked as ecologically significant and forms part of the ecological network of the Republic of Serbia. The Institute for the Protection of Cultural Heritage in Nis states that no systematic prospecting of immovable cultural property has been carried out in the said area (Appendix 2, Conditions 2 and 4).

The IPA area of "Lalininačke Slatine" consists of 11 smaller unconnected parts of a total area of 2012.35 ha. The delineation of the different sites of the IPA "Lalininačke Slatine" was based more on the presence of natural/semi-natural vegetation and the assumption of salt soils and less on the actual presence of salt marsh and salt steppe habitats. Such habitats are inhabited by some of the plant species that are typical representatives of grass formations and steppes (*Chrysopogon gryllus, Andropogon ischaemum, Achillea millefolium, Asperula cynanchica, Astragalus onobrychis, Carduus acanthoides Coronilla varia, Dactylis glomerata , Eryngium campestre, Euphorbia cyparissias, Lotus corniculatus, Medicago falcate, Salvia nemorosa, Scabiosa ochroleuca* etc.). Among the units that make up parts of IPA area are wheat fields, abandoned fields, vineyards, orchards, weed communities, row crops and the like. Only in one of the eleven parts of the IPA there is actually a salt marsh.



Figure 4 The position of IPA "Lalinacke slatine" in relation to the highway

The proposed highway alignment directly crosses the Important Plant Area "Lalinačke slatine" in a total length of approximately 600 m, from km 11+450 up to km 12+150 (Figure 6). The part from km 11+625 until km 11+850 (225 meters) will be the tunnel "Lalinac" and the rest 375 meters will be in a cut.

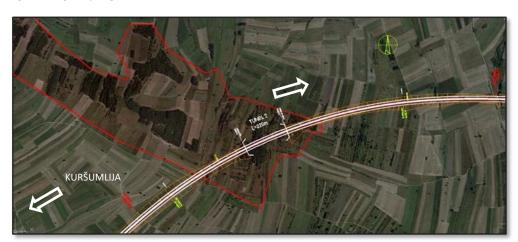


Figure 5 Highway alignment in relation to IPA area (marked red)

Because of the potential interaction between the project and the IPA site it has been considered that a Screening Process is needed. The purpose of the Screening is to identify the likely impacts of the project upon the IPA, either alone or in combination with other projects or plans in the area, and considers whether these impacts are likely to be significant. As per the results of the screening process it is concluded that the site can be screened out as no likely significant effect will be raised on the key values

or integrity of the IPA "Lalinačke slatine".

Appropriate Assessment Screening for IPA "Lalinačke slatine" is attached in Appendix 5.

3.2 Social baseline

When analyzing population density, Serbia is one of the countries in Europe with lower population density at an average of 91 inhabitants per sq. kilometer² (but one of the highest in the region - only Slovenia and Albania have higher population densities). Population density of the Municipality of Merošina reaches 69, 6 inhabitants per sq. kilometer. The Municipality of Merošina doesn't have an urban settlement; all settlements in Merošina are considered to be mostly rural and largely unified in its composition. Merošina with its population of 13.968 inhabitants belongs to a group of smaller municipalities, representing 0.19% of overall population. The municipality administration center of Merošina municipality is located in the Merosina village, but it is not the largest settlement - villages Baličevac and Balajnac are the two most populated villages.

Migration and population change issues - views from field survey

During focus group discussions, as key reason for negative population trends emigration of young people to Belgrade, or more often, to one of the high economy standard EU countries, Canada or US was listed. The local Community expressed its fear that this trend will even grow after the highway construction, as a side effect of economy impact that it will cause. It can be noticed that there is a considerably larger number of female immigrants living in Merošina - 60% females comparing to 16% males. Young women are more likely to leave rural areas and go to large university centers for education, or to get married. In recent years, young women also attended school for medical nurses in Prokuplje in order to leave towards the EU and Scandinavian countries.

Migration to municipalities of a different region of active population (10.5%) from Merošina refers to working force mostly employed in municipality of Prokuplje, but also Žitorađa, Blace and Kuršumlija.

There is no high school/vocational college or university in municipality of Merošina, so daily migration of all high school pupils and students is necessary, mostly to city of Niš (44% of all migrations) and some to municipality of Prokuplje (little less than 20%).

Age

Municipality of Merošina has a significantly older population than the national level. The main reason for this has been explained before: emigration of younger people to larger cities (Belgrade, Niš) and to other countries. The difference of ratio of working age population group (age 20 to 64) in total population of more than 6% between municipality of Merošina and the national level seems to be the most alarming statistical data, as well as the ratio of older age group population (65+).

Gender issues - views from the field survey

During women focus group in Merošina we learnt that women in Merošina don't feel there is a gap between women and men in their community. They specified that in Merošina the Municipality President is a woman - Sanja Stajić. But after being asked, they agreed that in the more rural areas of the municipality, men are usually property holders of the common property of spouses, that men will represent the household etc. in 80% of the cases.

Ethnicity issues - views from field survey

During focus groups in Merošina a meeting with Roma national organization "Wheel" ("Točak") was held. The knowledge obtained with regard to the Roma community in Merošina is similar to Prokuplje. There are more Roma inhabitants than officially reported, but many of them are temporary working

² Source: National statistical office; for 2016 population data

abroad, Austria and other EU countries. The "Wheel" has around 1,000 members, and most of them are unemployed. Main Roma settlements are located in villages of Jugbogdanovac and Biljeg. There is a Roma coordinator appointed by the Ministry of health, of Roma nationality too.

Agricultural production Merošina - views from field survey

Agricultural producers in Merošina emphasised the importance of keeping alternative roads to Niš and Prokuplje open during Highway construction phase. There are no cold storages for fruit in Merošina (despite the large production of sour cherry as the most important product), vegetables are being transported to Niš markets etc. The beekeepers expressed concern regarding atmospheric and noise pollutions, as the honey production established recently new trading routes to Germany, and beekeeping increased production in recent years.

Poverty and social assistance in real terms - views from field survey

The Merošina "Red Cross" organizes a public kitchen in the municipality. Some meals are distributed to elderly users with inadequate vehicles to several villages, and every day 640 daily meals are given out, which means that around 5% of all population of Merošina receives a meal from public kitchen. According to the Red Cross representative, 65% to 70% of users are of Roma nationality. The distribution commences at 9 am and completes by 3pm.

Land use in Merošina

The municipality of Merošina covers a total area of 19,325 hectares, out of which 13,841 ha or 71,6% is considered to be arable land, forests cover 3,310 ha or 17,1%, construction land covers 2,059 ha or 10.7%. The agricultural land on the territory of Merošina municipality occupies 14,700 ha out of which 10,800 ha is being cultivated, or around 71%. Farming crops occupy 7,079 ha or 65,5%, vegetable cultures occupy 1,318 ha or 12.2% (i.e. beans, potatoes), and under forage crops (clover and alfalfa) occupies additional 1,251 ha or 11,5% of arable land. Orchards occupy 1.469 ha or 13,6% and the most important fruit crop is certainly the "Oblačinska" sour cherry. Vineyards occupy 445 ha or 4,1% and are mainly located in warm and semi hot exposures which favours production of high quality grapes. The share of meadows and pastures in relation to the total agricultural area is 1,904 ha or 12,9% of agricultural land. Pasture parcels are fragmented and scattered throughout the territory. The biggest meadow and pasture complexes are spread over the higher parts of the cadastral municipalities that stretch along the slopes of the mountain Mali Jastrebac and along alluvial plains of river. Agricultural land is 99% privately owned, cultivated by 3441 agricultural households and only 6 companies, which means that an average household cultivates 2,6 ha of land.

4 Summary of Environmental and Social Impacts and Mitigation Measures

4.1 Summary of Environmental Impacts and Mitigation Measures

Parameter	Possible Impact	Mitigation Measures				
Air quality	During Construction					
	Spreading of construction material and dust in the air can be caused by: 1. earthworks (including land clearing, excavation, levelling, tunnelling), 2. transport and disposal of excavated and surplus filling material and storage of filling and backfill material, 3. movement of construction mechanisation and transport vehicles. During Operation Air pollution impact from the traffic (since there is no other significant source of pollution in the area).	Cleaning of vehicles before entering public areas Obligatory covering or wetting the material to be transported to avoid its scattering When weather is dry and windy, regularly wetting the surface that could lead to scattering of dust Provide technical validity of machinery, regular (if necessary emergency) technical controls of norms emissions. Mitigation measures are already applied during the design phase, by designing the highway route on proper distance from sensitive receptors. For the full motorway profile phase, monitoring of air pollutants concentration is recommended.				
Soil	During Construction					
	Physical loss of land through expropriation, as well as removal of topsoil horizon and its permanent loss.	One third of the upper layer of soil that will be removed during the construction of the highway (Volume $1.1 / 1$. Highway route, pos. $1.1.1.2.1$) will be used immediately for cover of the side slopes of the highway. It is best to install humus material without prior storage. Two thirds of the top layer of soil will be removed and sent to an official landfill, where it can be				

Parameter	Possible Impact	Mitigation Measures
		used for cover.
		After construction works, fertile soil should be embedded on side slopes of newly built embankment. This way of reuse of excavated soil is useful for fast vegetation development, which prevents erosion and lowers potential maintenance costs.
	Soil pollution and soil degradation/erosion	All waste oil, oil and fuel filters have to be collected and recycled or disposed of in secure landfill areas. The drip trays/containments should be used during construction to store hazardous liquid materials, to avoid spillage and pollution.
		At the closure of the site, all contaminated soil will be excavated, removed and replaced with fresh topsoil.
		Cleared material is to be piled into manageable sized heaps according to disposal or re-use requirements.
		Limit the extent of excavation to reduce soil erosion potential. The contractor will be responsible for ensuring that the erosion is contained by soil conservation protection methods.
		Apply soil conservation protection methodology to susceptible areas to prevent / minimize storm water runoff carrying eroded materials off-site.
		Avoid excavation and operating machinery in wet ground conditions.
	Moving machinery at and around the site during construction causes compaction, considered as negligible impact	During construction works, construction sites should be marked with fence and nearby soil protected from compaction.
	Soil pollution from oil and derivates considered as minor significance	All petroleum and its derivatives manipulations during construction works, like machine supply, are necessary to perform on defined place with maximum precautions to avoid spilling. It is the same for oil packaging and other oil derivate, which must be collected and taken on controlled

Parameter	Possible Impact	Mitigation Measures
		contractor made landfills from where should be taken away by authorized utility company;
	During Operation	
	Pollution due to surface water coming from the roadway,	Due to planned drainage system (Volume 3/2. Storm sewer), soil pollution from water flow from the roadway is eliminated, since protection from this type of pollution is foreseen. This also applies to tunnels, bridges and all associated facilities.
	Deposition of emitted gasses (atmospheric deposition, wind deposition, scattering due to vehicle movement),	Define a narrower (10m) and wider zone (100m) of impact of the road on the environment, especially from the aspect of preserving agricultural land and food production of appropriate quality. Predict the zones of influence and the amount of pollutants that reach the soil and water by washing from the road, and on that basis determine the measures and recommendations for land use.
	Spillage of cargo.	The only way for soil rehabilitation is to remove contaminated soil and transport it and store in safe places where endangering of environment will be minimized.
		Pollution/contamination accident prevention and response
Surface and	During Construction	
groundwater	Impact of contamination from the waters washed from the construction sites- Water from construction machinery, uncontrolled disposal of excavated material, uncontrolled drainage of the sanitary waters in places of accommodation of workers, as well as smaller (local) pollution from the process of food preparation.	Works on construction and landscaping must be performed so as not to disturb the existing underground and surface hydrographic connections and do not affect the qualitative characteristics of groundwater and surface water. Spillage of any hazardous substances near the river must be avoided. The Contractor should be required to use biodegradable lubricants for their machines and biodegradable oils for transmissions, to minimize pollution

Parameter	Possible Impact	Mitigation Measures
		during the works.
		Maintenance, refuelling and cleaning of construction machines execute at locations that are distant from watercourses and which will be defined before the start of works.
		Riverbanks in the exploration area should be protected by fences during the construction phase, to prevent negative impact that may be caused by driving and unloading of materials nearby.
		Driving machines inside rivers, streams, or on their banks, except where this is unavoidable due to the construction of a facility or structure is forbidden. Also discharge solid waste and wastewaters originating from the workers into rivers and streams is forbidden.
		It is strictly forbidden to wash and discharge any material left in concrete mixers in rivers or any other watercourse.
		The sites are properly drained. Paved areas, including vehicle parking areas, workshops and fuel storage areas are to drain to an oil and water separator.
		Fuel storage areas are not located within 20m of a water course.
		Where fuel in excess of 5,000 litres is stored on site, it will be stored in sealed tanks on a concrete base that is bounded to hold 110% of the tank capacity.
		The contractor must have trained personnel who are competent in fuel handling procedures and for cleaning up accidental spills.
		Sanitary waste and grey waters are treated before release into surface water systems, in accordance with the Law on water ("Official Gazette of RS", 101/05).
	During the works, there will be some turbidity of the Krajkovačka	Excavation and preparation of foundations for the abutments, retaining walls

Parameter	Possible Impact	Mitigation Measures
	River, Lepajski Stream and Jugbogdanovačka River, and by erosion during the construction of the foundations and pillars of the new bridges. There are no pillars inside the river flows.	and other objects that are on/near surface water bodies, execute in the period of low water levels (July - September) to minimize negative impacts on rivers and their banks.
		It is obligation of the contractor to test the quality of the water upstream from the bridge site before the start of construction work on the bridge
		Setting thresholds suspended particulate powder/ turbidity is required and any overruns will cause stop work
	During Operation	
	Pollution due to surface water coming from the roadway.	According to the planned drainage system with separators for light oil derivatives, soil pollution due to water flow from the roadway is eliminated, since protection from this type of pollution is planned. This also applies to bridges and all associated facilities.
		There are 10 oil separators at outlets, as follows: $5/50$ l/s at km $8+119.00$; $20/200$ l/s, at km $8+152.40$, km $8+501.40$ and km $8+765.50$; $30/300$ l/s, at km $5+982.00$; $40/400$ l/s at km $8+040.00$ and at km $14+061.00$; $60/600$ l/s at km $9+107.00$; $100/1000$ l/s at km $13+669.00$, and one separator without bypass, 80 l/s, at km $5+670.00$
Ecology and nature	During Construction	
conservation	Habitat loss and degradation A number of activities during the construction can result in the damage and loss of habitats: Vegetation clearance, soil removal, rock excavations, borrow pits and quarries modification of landscape.	Construction facilities to be sited on unused land of no particular ecological value, outside areas with high vegetation. Optimisation for maximum use and upgrade of the existing network of roads and avoid construction of new temporary ones to minimize loss and fragmentation of vegetation and natural semi-natural habitats.
		No construction materials will be taken from the surrounding environment unless approved by the competent authority;

Parameter	Possible Impact	Mitigation Measures
		Restoration of sites to their baseline condition where possible upon completion of construction (retaining as much of the original vegetation as possible for reinstatement); Species selection should be harmonized with the surrounding area and its purpose.
		Establish a Reinstatement Plan prior any construction work beginning. The reinstatement plan will be approved by the competent authority;
		Restore as soon as possible after completion of works all surfaces that are in any way degraded with construction and other work;
		Develop appropriate measures against the spread of invasive species during reinstatement and /or landscaping of terrain. Pay attention that alien and especially invasive species are not used for greening.
	Habitat Fragmentation Linear infrastructures, such as highways, contribute significantly towards the habitat fragmentation. Building of a closed highway will cause fragmentation and separation of habitats. In addition, this may cause the interruption of daily or seasonal movements for some terrestrial animal species (i.e. reptiles and mammals), disturbing the usual behaviour patterns of certain species.	Optimisation for maximum use and upgrade of the existing network of roads and avoid construction of new temporary ones to minimize loss and fragmentation of vegetation and natural semi-natural habitats. Strictly adhere to planned route of the highway and its associated construction corridor. Limit the movement of heavy machinery to existing roads, in particular in the forest areas. At the intersections of the highway and watercourses, where the construction of bridges and culverts is planned, it is necessary to design the spaces under the bridges as ecological crossings (including dry ledge that are accessible during high water levels), and to provide or facilitate
		communication of fauna along watercourses (amphibians, reptiles, mammals, aquatic organisms). The locations of these passages are on all watercourses on the route of the road: bridges across regulated riverbed of Krajkovačka River, km 8+105; Lepajski Stream, km 8+514; plate culvert for evacuation of waters of the occasional stream Mala Padina at chainage 7+240 and viaduct at Jugbogdanovačka River, at km 14+062 and at Suvi Stream, at km 14+235. Such multifunctional ecological passages / crossings

Parameter	Possible Impact	Mitigation Measures
		along watercourses should have the following characteristics:
		The bed of the watercourse should occupy one part of the width of the ecological crossing. On both sides of the watercourse bed, a space should be left under the bridge structure enable unimpeded passage of small and large animals;
		 Possible embankment of the canal / watercourse inside the crossing should be roughly rough (the optimal solution is horizontal ribs), which will prevent the animals from entering the water and will facilitate their exit from the water;
		 Vegetation in front of the crossing should be physically connected to the natural vegetation of the environment by means of low bushy or herbaceous vegetation;
		The area in front of the entrance should be covered with the natural type of land of the given locality (avoid concrete, gravel or stone).
		When performing the highway construction works on the sections which are close to the river, it should be predicted the maximum preservation of the vegetation, wild species and their habitats.
		The profile, construction and length of the planned bridge structures and culverts must meet the needs of ensuring relatively uninterrupted existing and expected communication of faunal elements on both sides of the highway.
	Chance finds procedure	If during the planned works, geological-paleontological or mineralogical-petrological objects are encountered, which are presumed to have the property of a natural good, according to the Law on Nature Protection, the contractor is obliged to inform the Ministry of Environmental Protection within 8 days, i.e. take all measures the natural property would not be damaged until the arrival of an authorized person.

Parameter	Possible Impact	Mitigation Measures
	Degradation of freshwater quality There are a number of activities during construction that can result in damage to the freshwater ecosystems. These include soil and rock excavations, borrow pits and quarries, the construction of culverts, bridges and viaducts and increased turbidity during construction activities within the water streams. Impacts are related to both deterioration of water quality (accidental spills of fuel or hazardous wastes are another possible threat)	Wastes as well as any other product containing hazardous chemical substances (i.e. fuel) will not be discharged in the surface waters and will not be stored in the proximity of freshwater features. Excavated materials will not be dumped into freshwater features, nor will they be stored in their proximity, to avoid additional increase of the turbidity levels. Maintenance, refuelling and cleaning of construction machines must be scheduled in locations distant from watercourses and which will be defined before the start of works. Avoid driving machines inside rivers, streams, or on their banks, except where this is unavoidable due to the construction of a facility or structure. When performing regulatory works on watercourses, anticipate the use of
		stone and other natural materials, and avoid concreting the banks and riverbeds of watercourses as much as possible (implement the so-called natural regulation of watercourses). It is necessary to maximally preserve the bed of watercourses, but also the shores with existing vegetation that is the breeding ground of fish, or habitat suitable for their natural reproduction, and also represent enclaves of indigenous, coastal vegetation that must be preserved.
	Loss of flora Flora species will be directly affected from the road construction through vegetation removal. Accidental loss of fauna Direct mortality may affect small mammals and reptiles (e.g. tortoise) and amphibian individuals by vegetation clearance, construction activities along the road or traffic on the access routes and machinery movement.	Works on the construction of the highway E-80 within the planned section must be performed on the cadastral parcels listed in the Conceptual solution. Delimitation of areas to be cleared before the beginning of the construction activities, in order to limit as much as possible, the surface of vegetation to be cleared. Limit the traffic of heavy machinery to existing main roads (including forest ones) to the extent that is possible; Speed of vehicles should be limited, in order to limit emission of noise and

Parameter	Possible Impact	Mitigation Measures
	Species disturbance	dust in non-paved accessed roads and in order to limit the risk of accidents with fauna.
	Construction activities can directly and indirectly cause disturbance to fauna species, mostly due to the presence and activity of the	Aim for gradual vegetation clearance in order to retain passage for species as long as possible across the corridor
	machinery.	Avoid dawn-dusk and night-time works, when activity of nocturnal animals such as carnivore species and bats is increased;
		Conduct a pre-construction inspection of the areas to be cleared in order to manually transfer and remove observed tortoises to nearby locations. This is expected to reduce direct mortality.
		In order to avoid any disturbance to species during the breeding season and subsequent breeding failure, vegetation clearance works should start if possible before the breeding season (spring).
		In the case that nests of protected species (e.g. <i>Perdix perdix, Coturnix coturnix</i>) should be located, their relocation could be investigated, under the special conditions of the Institute for Nature Conservation of Serbia;
		Wastes created during construction will be managed under an Environmental Management Plan, to limit the disturbance to fauna as a result of presence of wastes and spills.
	Light - Sources of artificial light can be jeopardizing factors, especially for nocturnal species and especially –bats, because they function as "light traps", and also increase stress acting on the species in the vicinity of the motorway.	When planning installation of lighting in the corridor around the highway, (Vol. 4/5, Lighting Arbanasce parking lot), applied appropriate technical solutions (focus light sources "down", minimum illumination without using the "decorative" light sources). When lighting bridges, apply solutions that will enable good visibility on bridges, and at the same time reduce it in the area below them.
		On the highway is advisable to use non shadowing screen for protection against the dispersion of light.

Parameter	Possible Impact	Mitigation Measures	
	During Operation		
	Habitat loss and degradation During operation along the highway corridor forest or tall vegetation will replaced with vegetation of mainly grass species. Thus, habitat conditions for many animal species (especially reptiles, birds and mammals) will be substantially altered.	Develop and implement during the operation phase a Monitoring Plan of terrestrial flora and fauna in order to timely recognise negative impacts and trends related to the highway operation and define additional and appropriate mitigation measures. Pay attention that alien and especially invasive species are not used for the maintenance of corridor.	
	Habitat fragmentation Linear infrastructures, such as highway projects, contribute significantly towards the habitat fragmentation. Building of a fenced highway will cause fragmentation and separation of habitats. In addition, this may cause the interruption of daily or seasonal movements for some terrestrial animal species (i.e. reptiles and mammals), disturbing the usual behaviour patterns of certain species.	All sites and surfaces affected by the construction works should be reinstated with the same type of vegetation. Regularly maintain in a good and functional status the fauna crossing points constructed. Consider changes to these passages based on the results of the Monitoring Plan.	
	"Barrier effect" created by linear infrastructures can affect the dispersion and movement capacity of fauna (fish, amphibians, reptiles and mammals). This affects indirectly their capacity for searching food, shelter or other individuals of their same species during the breeding season. These factors are linked with the species population dynamics.	Develop and implement during the operation phase a Monitoring Plan of terrestrial flora and fauna in order to timely recognise negative impacts and trends related to the highway operation and define additional and appropriate mitigation measures (e.g. additional or different fauna crossing points) Maintain the constructed fauna crossing points (i.e. culverts) clear rom obstacles (debris, vegetation) and functional. This will increase the permeability of the motorway and will reduce the barrier effect.	
	Species loss, disturbance and displacement	Implement Noise mitigation measures	
	During the operation phase of the highway some species such as rodents and reptiles are attracted by the new habitats and	Construct and maintain an impenetrable and resistant fence along the highway will prevent access of animals (esp. medium and large mammals)	

Parameter	Possible Impact	Mitigation Measures
	environmental conditions created after the road construction.	to the highway and will reduce the possibility of collisions and road mortality.
	This as the domino effect may favour the secondary increased presence of carnivore mammals which prey on these small mammals and reptiles. Impacts include mainly road mortality. Another negative impact stems from the use of salt during winter months that greatly attracts individuals of different bird species (mostly songbirds) in the immediate area of the highway route, significantly increasing the risk of collision accidents and road mortality	Predict barriers for birds in corridors, especially for some game birds (Grey Partridge <i>Perdix perdix</i>) and for nocturnal birds of prey. These barriers will mitigate the risk of collision since normally these species are attracted to roads. Avoid the creation of habitats by the road that would attract fauna and lead to increased road mortality. Respect the physiognomic characteristics of natural vegetation landscapes; Plan for the timely removal of excess salt after winter in order to reduce the risk of collision accidents and road mortality. Develop and implement a Monitoring Plan as part of the ESMP that will also
	Freshwater ecology	monitor road mortality. Develop and implement a Monitoring Plan as part of the ESMP also for freshwater ecology (especially fish, amphibians and overall aqua-ecosystem – invertebrate species composition, production etc.) in order to track possible impacts and define eventual additional mitigation measures to mitigate and reduce the harmful effects. Monitoring of water quality is recommended as well. Develop and implement an Accident Response Plan to determine the optimal
		location and type of emergency response equipment and the required capacities for handling liquid spills. Spill Response Kits should be available, and personnel will be trained in their use.
Excavated material and waste	During Construction	
und Waste	The proposed construction works will generate a significant volume of non-hazardous and inert waste whose inadequate management could result in the major adverse environmental impact.	Construction Waste Management Plan (CWMP) will be prepared and maintained by the Contractor of works. The Plan will identify the specific types and quantities of waste likely to arise during the construction process,

Parameter	Possible Impact	Mitigation Measures
		including: excavated materials, construction, demolition and excavation waste;
		Provide temporary or permanent locations (existing regulated utility facilities/landfills) for disposal of service rubble and other waste material in any state, and municipal waste generated during the highway construction. Restrict storage / disposal in river area, as well as other watercourses of a temporary nature, as well as on agricultural land;
		It is strictly obligation of the contractor to ensure all necessary permits for temporary or permanent disposal of surplus material.
		During the construction works, along the whole alignment it should be maintained the maximum level of communal hygiene. Define locations for impermeable solid containers, which must be regularly emptied under the conditions of the competent utility service. All other waste should be deposit strictly following procedure prescribed within the Law on waste.
		The majority of excavated material that will be generated will be reused, if suitable, either as engineering fill material or in the environmental mitigation earthworks of the project;
		Exact position of landfills will be determined in later phases, by examining locations "in situ".
		In case new borrow pits are determined they should be subject to review for environmental impacts before use. IPA "Lalinačke Slatine", Krajkovačka River, Lepajski Stream, Jugbogdanovačka River, fertile, arable and similar areas should not be used as a landfill location. Locations that will be determined as temporary landfills by the construction site organization project must be outside agricultural zones.
	No impact during Operation	
Landscape and	During Construction	

Parameter	Possible Impact	Mitigation Measures
visual impact	Temporary impacts could damage the landscape, disrupting the identity of the area (the image of the landscape and visual continuity).	After completion of the work, the obligation of the contractor is to bring the site to the state before the work started.
		Organize the site and setting up facilities concentrated mainly in places where planned bridges along the route are.
		Temporary location for storing the necessary construction and other material and equipment is needed to be located outside the space with tall vegetation, and limited only to the duration of the works execution.
		The size of contractor's facilities are limited to absolute minimum to reduce unnecessary clearing of vegetation. The contractor's facilities are to be contained within an adequate security fence.
		All open cuts should be planted right after finishing to prevent soil erosion. This should include as less degradation and fragmentation, how the landscape would not lose its character.
		Upon the completion of all works, it is necessary to remove the machinery, construction materials, containers, spare parts and other equipment, as soon as possible.
		After the completion of all works, it is required to cultivate the ground at all vulnerable areas by using the appropriate flora and species that are biologically stable under the given climatic conditions, resistant to adverse impacts (exhaust gases) and compatible with the surrounding area and purpose.
	During Operation	
	The highway has made a big visual change in environment	To establish plant cover on all affected places (Volume 9.1 Landscape design), using indigenous species with a similar combination, to harmonize with the surrounding area to arrange embankment horticulturally prevent erosion

Parameter	Possible Impact	Mitigation Measures
		Plan the raising of a continuous edge green belt outside forest zones, greening of intersections, dividing islands, especially in settlements, which would enable visual protection of contact zones and aesthetic design of the space. For landscaping, use those species that have a greater ability to absorb harmful exhaust gases, fast growth and aesthetic value. Indigenous dendroflora is recommended.
		The use of species that have been identified as invasive and / or allergenic is not recommended.
		The green belt of the highway should be planned so that it does not interfere with the visibility of the road and does not endanger traffic safety. Planned landscaping of the highway corridor should take place in accordance with the landscape characteristics of the area. Form and maintain a continuous belt of protective greenery (tree row in combination with shrubs) of species resistant to air pollution, without edible fruits, not to attract animals, with a pronounced function of protection from wind and noise;
Noise	During Construction	
	There will be noise generated from the concrete batch plants and vehicle movements. Where construction noise levels are anticipated to be above 55dB	Noise and vibration affected residential or business receptors will be timely informed of the construction activity through appropriate communication channels;
	LAeq,T during the day, significant noise impacts are expected to be registered. Such impacts are classified as moderate to high. Where construction noise levels are below 55dB LAeq,T during the day,	All staff will be briefed on the requirement to minimise nuisance from construction activities;
	construction noise levels are below 5500 LAEQ,1 during the day,	Where appropriate, haul routes for construction material will avoid additional

Parameter	Possible Impact	Mitigation Measures
	insignificant noise impacts are expected, classified as low	nuisance in residential areas or at sensitive sites;
		The respective construction works on the road alignment should be executed only during the daylight because of the potential impact of noise from construction equipment and vehicles.
		Best Practicable Means will be used during construction work;
		Where appropriate, silenced / enclosed construction equipment / machinery will be utilised;
		All plants, vehicles and machinery used during construction will be regularly maintained and turned-off when not in use;
	During Operation	
	In the first phase of highway operation, traffic volumes are expected significantly below thresholds. Impact from traffic noise, even in populated areas are considered of negligible significance.	No measures
	Populated area receptors are private houses. There is no sensitive receptors as schools and hospitals in the vicinity.	Noise barriers are provided, in the area of objects which are exposed to the negative impact of the forecast traffic, at the total length of about 152 m
		In case noise level to exceed the legal limit, noise insulation of windows will be offered for the affected receptors.
Climate change During Operation		
impact	Extreme temperatures	Enhanced maintenance
	Extreme precipitation, floods, landslides, soil erosion	The impact of climate changes (increased value of maximum daily precipitation) is considered in the hydraulic calculation of the drainage system.

Parameter	Possible Impact	Mitigation Measures
		Alignment is positioned in a way that has a minimum influence on existing watercourse network. Every watercourse has its bed regulated according to the position of alignment and new bridges (Volume 3/1. Training works). For every regulation of a riverbed hydraulic calculations were made according to the hydrology study inputs. The position of major structures, bridges and piers is chosen in a way to avoid riverbeds and other watercourses.

4.2 Summary of Social Impacts and Proposed Mitigation Measures

Social measures		
Cultural heritage	During Construction	
	No systematic prospecting of immovable cultural property has been carried out in the subject area.	"Koridori Srbije doo Beograd" (KS) is obliged to provide all the conditions and enable smooth and constant monitoring of works, during the entire duration of the earthworks, by the archaeological team - archaeological supervision;
		Chance finds procedure:
		If during the performance of the works the contractor encounters at archaeological and/or historical sites or archaeological objects or objects from the past, he shall immediately suspend the works and notify the competent Institute for the Protection of Cultural Monuments from Niš without delay, and take measures to the finding does not destroy and not damage and is preserved in place and in the position in which it is discovered, as well as to provide conditions for protective archaeological research;
		The investor of the facility is obliged to provide funds for research, protection, keeping, publishing and exhibiting goods that are discovered during the construction of the investment facility, until the transfer of the goods to the authorized institution.
	No impact during Operation	
Community health,	During Construction	
(in compliance with requirements of EBRD PR 4)	Road traffic disruption and safety Potential traffic safety risks from increased traffic and the presence of heavy vehicles on roads, degraded roads by increased heavy vehicles traffic.	A Construction Traffic Management Plan should be developed and implemented. The plan should be prepared in cooperation with the relevant local traffic authorities, especially where transport is moving through or near settlements or areas with vulnerable road users. During consultation meetings and stakeholder engagement with the school and pre-school facilities agreement was reached to conduct awareness campaigns targeting children especially. Information leaflets shall be prepared to be used as a tool complementing the awareness campaign for children through presentations and short movies. The best practice

teaches us that such awareness campaigns should be conducted in several cycles and especially after school breaks when children return to their daily chorus and travel patterns. Potential increased transmission risks of communicable Implementation of CD and HIV/AIDS education program; diseases and temporary pressure on local health and sanitation Information campaigns on STDs among the workers and local community; Special infrastructure education program for the Roma population and women. Presence of temporary workers in the local area-potential Education about the transmission of diseases; COVID-19 infection Provision of condoms, designated as contractor responsibility; Monitoring of local population health data, in particular for Transmissible diseases. Mitigation COVID-19 measures for workers: • Notify your supervisor and stay home if you have symptoms. • If you are sick, you should not return to work until the criteria to discontinue home isolation are met, in consultation with healthcare providers, your employer, and state and local health departments. · Notify your supervisor if you are well but have a sick family member at home with COVID-19. • Limit close contact with others by maintaining a distance of at least 2 meters, when possible. Limit the number of workers in small workspace areas such as job site elevators, trailers and vehicles, and spaces under construction if possible. • Wear cloth face coverings in public settings where other social distancing measures are difficult to maintain, especially in areas where there is significant community-based transmission of COVID-19. • Clean and disinfect frequently touched surfaces such as shared tools, machines, vehicles and other equipment, handrails, ladders, doorknobs, and portable toilets. Clean and disinfect frequently touched surfaces periodically throughout the shift but

Safety risks due to unauthorised access to construction compounds and work sites Impacts from self-created communication routes by community in case of temporary disturbed communication routes Site trespass and injury	also: At the beginning and end of every shift After anyone uses your vehicle, tools, or workstation Limit tool sharing if possible. Practice proper hand hygiene. Appropriate security features will be implemented, including fencing, sign posting and potentially security personnel. Keep alternative routes at all times. Fence site boundaries and present route of alternatives Awareness campaigns for the community with emphasis to most vulnerable road users (children, elderly, pedestrian and cyclists). Reduce speed limit. Programme of stakeholder engagement and consultation to educate local communities of the risks of trespassing onto sites, the meaning of signs and the dangers of playing on or near equipment or entering fenced areas. Adequate signs to be put up around work fronts and construction sites advising people of the risks associated with trespassing. All signs should be in Serbian or in diagram form to ensure those with low levels of literacy understand the signs. Fence construction site with visible not easily removable fence. Clear demarcation of the construction site. Place visible and understandable signs to site limits. Raise awareness of community and workers.
Impacts to community security, particularly covering interaction	Educate workers not to allow even incidental or on-off trespasses Place warning signs of prohibited trespassing and legal remedies in opposite conduct.

between security forces retained security to safeguard the operations	construction site of Contractor. Let the community understand their role and responsibility. Liaison with the Local law enforcement to agree on regular meetings, communication channels and to agree on emergency response in case needed. Train the employees of the Security personnel to adhere to protocols and code of conduct at all times with emphasis to carrying and use of weapon if any
During Operation	
General operational safety of the highway Operational safety of the highway could affect passengers by the threat of injury or potential loss of life due to vehicle collisions, or vehicle overturns or other operational causes.	The set of precautionary measures should be implemented, including • road operational safety procedures, • road safety audit • regular inspection, and • maintenance of the highway and • implementation of a safety management program equivalent to internationally recognised (EU) highway safety programs
Level crossings safety The proposed project envisions only grade separated road crossings (underpasses and overpasses) thus eliminating the safety risks	
Transport of dangerous goods Considering the character and purpose of the planned road, during the period of exploitation, the transport of chemical poisonous, flammable, explosive and other dangerous or harmful substances can be expected. Transport of dangerous goods represents a potential environmental risk in the event of accidents, through leakage, safety valve releases, in	The set of preventive measures will be proposed, including: • the proper screening acceptance procedure, • development of the Emergency Preparedness and Response Plan (including Spillage Response Plan), • timing of transport,

	pressurised and general service tank vehicles, or other hazardous material containers.	limiting speeds to minimise the risks, etc.	
Labour and working	During Construction		
conditions	Worker's rights, rules and obligations Employment standards Accommodation for workers	Comply, at a minimum, with national labour, social security and occupational health and safety laws, with requirements of EBRD PR 2 and the fundamental principles and standards embodied in the ILO conventions Comply, at a minimum, with national labour, social security and occupational health and safety laws, and the fundamental principles and standards embodied in the ILO conventions On and off site adequate accommodation in line with requirements of EBRD PR 2, ILO Conventions	
Occupational health	Ith During Construction and during Operation (maintenance works)		
and safety (in compliance with requirements of EBRD PR 4)	(1) work at heights, (2) slips and falls, (3) moving machinery, (4) struck by objects, (5) dust and asbestos fibres dust, (6) confined spaces and excavations, (7) biological hazards (poisonous snakes).	The contractors will employ workers that need to be trained continuously by H&S team, have an appropriate awareness of the hazards of working at construction sites and are trained to use and use the appropriate equipment to undertake their tasks in a safe manner.	
		All workers associated with the project, and in particular the site management, will need to be familiar with appropriate safety measures for this type of construction works, starting with undertaking appropriate hazard and risk assessments for all activities. This should be followed by appropriate training, that personnel undertaking hazardous tasks are certified to do so and implementation of specific international requirements for working at height and working in enclosed spaces.	
		Adequate, timely and regularly updated training and briefings for workers on safety precautions and their responsibility for their safety and the safety of others;	
		Require the workers to use the provided safety equipment;	
		Report and record any accidents, incidents and/or breach of relevant legislation arising from the project;	

Local Overview and		
community support		
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(in compliance with requirements of EBRD PR 10)

During Pre-Construction

Expectations of the Project to commence.

Expectations of benefits.

Local business and entrepreneur rely on the Project and calculate the future effect into their business schedules in terms of connectivity and reduced travel time.

Expectation of employment opportunities.

Potential legacy issues.

Rumour induced conflicts and inadequacy of information.

Marginalization of Merošina.

Manage expectations and avoid an express assurance on which expectation is to be based.

Implement Transparency

Make sure understanding of the timeline of the Project is clear.

Make sure the business decisions are not Project dependent to avoid liability of implementing entity, contractor or National Government

Compensation at full replacement cost including transaction costs/ taxes or Replacement land and additional assistance before displacement or imposition of access restrictions

of businesses which are wholly or partially located in in the Right of Way

Make sure the employment strategy is disclosed in a transparent manner early in the Project.

Ensure the Contractor holds contractual obligation to prepare a transparent Employment Plan and ways of communicating the plan to the local communities

Understand the social Context.

Identify any legacy issues from another Project or activity or as a result of political context already at the pre-bid meeting stage

Make trustworthy information sources known to local community.

Prove value of communication channels and formal forums for information exchange.

During Construction

Continued Expectation of benefits related to the Project

Legacy issues

Loss of support and reputation risk

Loss of support and project risk

Manage expectations and avoid an express assurance on which expectation is to be based.

Implement Transparency

Identify in an early stage any potential issues from the past which could amplify any negative impact

Adhere to the commitment to the Project. Keep the community a Partner in development

		Respect all provision of the safeguard tools. Adhere to any obligation set out therein,		
C	During Pre-Construction	During Pre-Construction		
	Disruption of travel patterns Impacts to safety of children Uncertainty about Project commencement and timelines Assessment of local women pool of experts	Prior to commencement of civil works disclose and discuss tentative timetable of disruption of transport. Alternative routes should always be considered Announce the strategy for road safety and regularly update the events. Child safety awareness and training program in schools Clear and timely dissemination of Project dynamics Early assessment of available workforce and skills amongst women for all positions needed		
	During Construction			
	Temporary direct and indirect employment opportunities Risk from violence and traffic safety risks from influx of workers Degradation of local infrastructure	During assessment of available experts and workers in the local pool identify the positions suitable for women and those equally suitable for both sexes in order to identify possible available workforce. The employment Plan could set a quota of women to be hired under the Project		
	Accessibility of health care Accessibility of education for children	With the local law enforcement agree on increased measures of prevention of violence especially gender based, and conduct road and traffic safety awareness campaigns		
	Walking and cycling path intersection Increase of transport costs Disruption of routes and schedules of public transport	Adhere to the restriction of movement of constriction vehicles and equipment through the local roads. Construct access roads for transportation of material and equipment. Contractually oblige the Contractor to bring to pre-construction stage and reconstruct any local infrastructure degraded in quality during construction works.		
		Ensure undisrupted access to health care facilities by responsible management of traffic and disruption of routes only in close consultations with the communities		
		Traffic management plan to take into account daily transportation timetable of children especially during the school year, September to December and February to June. This is to be done in coordination with the schools and transport provider		

		Consult with women predominantly walking or cycling to attend to daily work and household chorus. Broadly consult with community. Assess the impact of increased costs on livelihood Provide adequate service routes and schedules of disruption commensurate to community dynamics
Infrastructure and utilities and public amenities	During Pre-Construction Material and soil investigation Inspection and assessment of condition and absorption capacity of local roads Setting out	The presence of these utilities shall be assessed by the Construction Contractor by means of a survey prior to construction works The presence of these utilities shall be assessed by the Construction Contractor by means of a survey prior to construction works survey to identify the utilities along the alignment, located under and above ground such as water supply, sewerage, cable network, telephone and power supply
	During Construction Temporary loss of, or access to, infrastructure or services; Disruption of mobile providers or TV network , internet services due to collision with uncharted utilities	Inform local communities of program and sequence of works. Traffic Management plan Infrastructure and Utilities Management Plan;
	Change in demand for services restaurants, laundry Change in water supply with possible shortage of water Disruption of electricity supply	Emergency Response plan in respect to supply of water and electricity. Conduct a reconnaissance survey to identify possible location of uncharted utility and liaison with the Service providers to identify the location of uncharted utilities Promote equal distribution of increased demand for services thus equally sharing the benefits
		Undertake water supply monitoring Liaison with water utility company regularly to design response plans and alternative water supply and prevent disruption in supply.

		Exchange of information on water supply and monitoring results
		Undertake electricity supply monitoring. Liaison with Electricity supply company regularly to design response plans and alternative electricity supply to the most vulnerable users (hospitals) and prevent disruption in supply.
		Exchange of information on electricity supply and monitoring results
Tourism	During Pre-Construction	
	Expectation for economic benefits from accommodation of potential labour influx Disruption of hunting season and impact to sport of recreational hunting	Include the Hotel management during assessment of absorption capacity of influx workers Clearly delineate the construction site from the hunting area
	During Operation	
	Changes from income and economic benefits from tourism	Promote tourist destinations
	Improved Access to tourist sites in the area	Maintain new infrastructure
Land Acquisition and	During Pre-Construction	
Resettlement (in compliance with requirements of EBRD PR 4)	Loss of Land Loss of commercial structures Loss of livelihood Loss of crops (annual, perennial)	Compensation at full replacement cost including transaction costs/taxes or Replacement land and additional assistance before displacement or imposition of access restrictions. Data on economic and socioeconomic conditions of displaced persons must always be sex disaggregated and include gender analysis specifically related to resettlement impacts and risks
	Damage to properties during construction	Compensation to establishing commercial activities elsewhere;
		(ii) lost net income during the period of transition; and (iii) the costs of the transfer and reinstallation of the plant, machinery or other equipment, as applicable. Provide additional targeted assistance include gender analysis specifically related to resettlement impacts and

	T		
		risks	
		Provide transitional allowance. Data on economic and sociocultural conditions of displaced persons must always be sex disaggregated	
		Restore the livelihoods and standards of living of displaced persons to pre-project levels, through measures that can be enterprise based, wage-based and/or enterprise based, so as to facilitate sustainable improvements to their socio-economic status	
		Compensate for loss at replacement cost	
		Any damage inflicted shall be assessed and valuated and compensated at replacement cost or replacement of asset if in cash compensation is not suitable	
	During Operation		
	Unforeseeable circumstances resulting in additional loss of land	Promote tourist destinations	
	and assets attached to it and resettlement.	Maintain new infrastructure	
Temporary worker	During Construction		
influx and population change	Influx of workforce	Avoid or reduce influx by tapping into the local pool of workforce.	
	Influx of followers, spontaneous job seekers	Screening of capacity of locally available pool of workforce.	
	Pressure on local public services	Assess and manage labour influx.	
	Impacts on community dynamics existing social conflicts may	Incorporate social mitigation measures into the civil works contract (Through the PCC)	
	Impacts on community dynamics existing social conflicts may intensify		
	intensify Increased risk of communicable diseases specially amongst the	Incorporate social mitigation measures into the civil works contract (Through the PCC)	
	intensify Increased risk of communicable diseases specially amongst the vulnerable and burden on local health services	Incorporate social mitigation measures into the civil works contract (Through the PCC) Ensure supervision engineer's responsibilities regarding oversight of, and reporting on, labour influx and workers' camps (if any) Contractor to hire workers through recruitment offices and avoid hiring "at the gate" to	
	intensify Increased risk of communicable diseases specially amongst the vulnerable and burden on local health services Increased pressure on accommodations and rents and induced	Incorporate social mitigation measures into the civil works contract (Through the PCC) Ensure supervision engineer's responsibilities regarding oversight of, and reporting on, labour influx and workers' camps (if any)	
	intensify Increased risk of communicable diseases specially amongst the vulnerable and burden on local health services	Incorporate social mitigation measures into the civil works contract (Through the PCC) Ensure supervision engineer's responsibilities regarding oversight of, and reporting on, labour influx and workers' camps (if any) Contractor to hire workers through recruitment offices and avoid hiring "at the gate" to	
	intensify Increased risk of communicable diseases specially amongst the vulnerable and burden on local health services Increased pressure on accommodations and rents and induced	Incorporate social mitigation measures into the civil works contract (Through the PCC) Ensure supervision engineer's responsibilities regarding oversight of, and reporting on, labour influx and workers' camps (if any) Contractor to hire workers through recruitment offices and avoid hiring "at the gate" to discourage spontaneous influx of job seekers,	

Social tension and violence anticipated influx. Contingency plans for temporary rise in demand for utilities and Public service provision. Liaison with civil society and local Law enforcement organizations to create integrative action plans; provision of upfront information on potentially impacts on local communities Measures to reduce incentives for mixing with local community Implementation of CD and HIV/AIDS education program; Information campaigns on STDs among the workers and local community; Special education program for the Roma population Education about the transmission of diseases; Provision of condoms. (designated as contractor responsibility); Monitoring of local population health data, in particular for transmissible diseases. The in depth workforce assessment to include accommodation assessment Awareness training on health and safety during construction and due to increased traffic Distribute a road safety leaflet Preparation and implementation of a traffic management plan to be approved by supervision engineer; Organization of commute from camp to project to reduce traffic; Road safety training and defensive driving training for staff; Sanctions for reckless driving Local government engagement with contractor and communities to identify accident hotspots and Formulation of solutions. Mandatory and repeated training and awareness raising for the workforce about refraining from unacceptable conduct toward local community members, specifically women informing

		workers about national laws that make sexual harassment and gender based violence a punishable offence which is prosecuted; introducing a Worker Code of Conduct as part of the employment contract, Reinforcing local enforcement capacity to maintain public order after the influx, ensuring that. Complaints about gender-based violence to be taken seriously by local law enforcement, which may be supported by deploying female officers to the project area. Preventive training with workers to demonstrate the presence of government authority in the project area.
Education and skills	During Construction	
	Development of skills On-the-job training and learning Opportunities for sub-contractors smaller companies to gain references Temporary employment and on-the-job training of vulnerable groups	Promote during employment training programs to upgrade existing skills or add a new capacity enhancement during the construction works. Conduct on-going training during construction works. During assessment of available workforce in the local pool announce the tentative services, works subject to possible sub-contracting so small companies can cooperate in order to maximize the opportunity The Contractor shall explicitly include Roma community leaders in the advertisement effort for job openings and reflect this in his Employment Plan in collaboration with the Roma Association from Merošina. Prior to that Roma community should be included during the in depth assessment of available local pool of workers
Employment and	During Construction	
Economy	Changes in tax income	Timely payment of all taxes,
	Changes in customs, duties and levies income	Tax payment awareness campaign
	Changes in direct employment	Tax inspections
	Changes in indirect employment	Timely payment of custom duties, and levies by the Contractor.
	Changes in procurement	Maximize local employment, as defined in the Employment Plan
	Long-term benefits of capacity enhancement (on-the-job	Adhere to any Labour Management Plan and human resources policies that seek to

	training opportunities)	establish fair, transparent and Equal opportunity employment.	
	- ''		
	Opportunity for local suppliers and sub-contractors	Identify opportunities to increase women's and Roma employment	
	Opportunities for women	Maximize local indirect employment opportunities by sourcing local services and goods	
		Identify and target specific skills gaps.	
		Provides employees with hands-on learning.	
		Focus on how well the employee is performing the required job skills in relation to specified performance standards and train to elevate the quality of performance	
		Advance information on tendering opportunities will be provided to local businesses through trade and industry chambers and local business organisations. Transparent and competitive engagement policies	
		The Project will identify female employment opportunities where possible and advertise them accordingly digging into the available pool of experts and workforce	
	During Operation		
	Changes in income from tolling	Introduce tolling and e-tolling as soon as practicable	
	Changes in direct employment	Maximize local employment, establish fair, transparent opportunities and identify	
	Income for taxes from development of new facilities along the Highway	opportunities to increase women's employment	
Health Services	During Construction		
	Increased number of vehicles in the area and traffic might lead to a higher number of road accidents and injuries.	Maintain current capacity of medical staff	
Access to Education	During Construction		
	Disruption of weekdays communication routes for school and	Prepare a traffic management plan (Contractor's contractual obligation).	
	pre-school attendance in remote school facilities	Exchange with school representatives timetable of all transportation routes for both	

		Municipalities.	
		To the extent feasible harmonize disruption compete stand still of traffic with school timetable	
Agriculture, beekeeping and	During Construction		
farming	Disturbance to bee-keeping	Agreements with beekeepers on where to relocate beehives if necessary.	
	Disturbance to animal grazing	Assistance with the transportation and relocation of beehives if needed.	
	Impact on quality of fruit production	Implement RPF and RAP and compensate any loss	
	Loss of agricultural land	Contractual clauses to ensure that contractors consult with local farmers to establish the	
	Loss of fruit bearing trees and vineyards	appropriate number and location of animal Crossings.	
	l vinevards	Implement RPF and RAP and compensate any loss socio-economic baseline assessment people affected by the project, including impacts related to land acquisition and restriction on land use	
		Detailed inventory of assets	
		Valuation and compensation at replacement cost.	
		Implement RPF and RAP and compensate any loss	
		Detailed inventory of assets	
		Valuation and compensation at replacement cost	
		socio-economic baseline assessment on people affected by the project, including impacts related to land acquisition and restrictions on land use during preparation of RAP	
Vulnerability	During Construction		
	Disruption of free meal delivering routes	Familiarize with the daily schedule of free meals in liaison with the Red Cross	
	Disruption of transport of haemodialysis patients	Familiarize with the daily schedule of free meals in liaison with the medical facilities	

Livelihood	During Construction		
	Loss of livelihood	Ensure livelihood restoration	

5 Environmental and Social Monitoring

5.1 Environmental Monitoring

Through the ESMP, the Contractor will establish Environmental and Social Monitoring Programme of Project impacts during construction phase and operational phase.

Prior to commencement of any works, it is necessary to carry out baseline monitoring of environmental parameters and update baseline data for noise, air quality, water and groundwater, and soil quality on those points which are defined as sampling locations in the ES Monitoring Programme. ESMP will define basic parameters which will be monitored in order to determine whether the identified mitigation measures are being implemented successfully. Following ESMP, the Contractor will develop a detailed monitoring program with specified targets for each indicator, which will be tailored to the requirements of each road sub-section and the elements of The Contractor's Environmental and Social Management System (ESMS) and site-specific ESMP. Each Contractor will develop a written monitoring program that will be evaluated by the Project stakeholders, including national statutory agencies.

Based on ESIA and other available documentation and data, and in accordance with the identified impact significance, relevant monitoring locations will be determined and presented in the ESMP respectively.

5.1.1 Monitoring of environmental parameters

Parameter	Construction phase	Operational phase
Air	Regular monitoring to be envisaged for those locations where there are residential buildings located closer than 400 m, as well as in the areas where construction works will take place in close proximity of large agricultural land. In the case of a complaint from local residents, additional monitoring of the effects will be undertaken. Limit Values for air are in accordance with Serbian Legislation, Regulation on monitoring conditions and air quality requirements (Off. Gazette of RS No 11/2010, 75/2010 and 63/2013).	In the first phase of monitoring which will last at least 5 years, it is necessary to carry out periodic monitoring of the air quality (1 month in a season), because in order to establish trends of air pollution it is necessary for measurement data to be obtained for at least five consecutive years. Only in the case where the results of periodic measurement indicate the necessity for further monitoring of air quality would it be necessary to carry out permanent monitoring of air quality, viz. enacting the second phase of monitoring.
Water	Monitoring of water during the phase of construction of the highway includes determining the effects on the quality of water while construction works are being carried out in the vicinity of waterways or water collectors.	The monitoring program for surface waters during the operation includes monitoring of the following parameters: pH, concentration of dissolved oxygen in the water, waste materials, murkiness, concentration of organic compounds and mineral oil, then temperature, colour and odour.
	For surface water, the program includes the following parameters: pH, concentration of dissolved oxygen in the water, waste materials, murkiness, concentration of organic compounds and mineral oil. Water protection measures and monitoring are based on Decree on limit values of emissions of pollutants in waters and deadlines for reaching them (Off. Gazette of RS No 67/2011, 48/2012 and 1/2016),	Domestic legal regulations which relate to the method of controlling the quantity and quality of wastewater (effluent) before it is released into a recipient cannot be applied to the control of the quality of cleaned atmospheric wastewater. Depending on the climatic factors, scope and structure of traffic, the composition of effluent varies during one hydrological year. Monitor of the effect of operation of the future highway on the quality of water of the recipient will be considered through emissions standards.
	The taking of samples will be done on surface waterway locations upstream and downstream from the construction site. The monitoring program is administered in such a way that it can be used to establish which construction works affect the quality of surface waterways. Samples must be taken before the commencement of works, and	Measuring the quality of water of the recipients is aimed at understanding the effects of runoff wastewater on the quality of water in the recipient. The monitoring plan for underground waters will be done in accordance with the basic characteristics of construction of the subject section of the

Parameter	Construction phase	Operational phase
	during works execution. Sampling will be done in monthly intervals. In the situation when the measurement results and analysis indicate an increase of negative effects, it is necessary to determine the cause of the deteriorating condition and undertake the necessary mitigation measures. Until the cause of the deteriorating condition is determined, only works which do not have an influence on pollution of surface waters may be carried out. All measurements begin one month before the beginning of preparatory works. The parameters which are the subject of monitoring are divided into the groups geological-hydrological, physical-chemical and chemical. Measurement of the basic and indicative parameters of underground waters will be done at least four times a year with an interval of at least two months. Measurements of the chemical and physical-chemical parameters are done quarterly. The days when samples are taken will depend on the level of underground water, precipitation and other geological and hydrological relations.	highway. The testing program encompasses the parameters which can be used to evaluate the current condition of the quality of underground water and the degree to which it is polluted with polluting substances from the subject section. The testing program will include the following measurements: Terrain measurements: temperature of air and water, pH, electrical conductivity, oxidation/reduction potential, Basic parameters: colour, dissolved materials, total organic carbon, nitrogen, nitrates, sulphates, chlorides, chemical and biological consumption of oxygen, Indicative parameters: microelements, phenols, mineral oil, polycyclic aromatic hydrocarbons, aromatic hydrocarbons, pesticides.
Noise	The permitted noise levels are defined by the Decree on environmental noise indicators, limits values, assessment methods of the noise indicators, the nuisance and the harmful effects (Off. Gazette of RS No. 75/2010). Rulebook on the content and methods of making strategic noise maps and the manner of their presentation (Off. Gazette of RS No 80/2010) and Law on Environmental Noise (Off. Gazette of RS, No. 36/2009, 88/2010) Noise measuring equipment will be used to establish a background or baseline and then during construction to establish increases in level and hence compliance to the standards. It is recognized that the best approach to noise control during construction works is require the use of equipment which conforms to noise standards, and then monitor the issue on an ongoing basis, including reacting to any nuisance	During operation, noise must be controlled with the goal of controlling the effectiveness of envisaged noise protection measures. Measurement of the level of noise must be carried out in intervals of five years and in cases of complaints from adjacent inhabitants. Residential object areas and additional locations which have been identified as the locations of the most endangered structures will be considered when defining monitoring locations.

Parameter	Construction phase	Operational phase
	complaints by local residences or businesses.	
	During construction the level of noise increases due to the transport of loads by heavy freight vehicles (removal and delivery of materials) and the use of the construction machinery. These sources of noise are of a temporary character and last until the completion of construction works.	
	During the phase when works are being carried out, the level of noise must be controlled when necessary, meaning upon the occasion of a complaint being filed for an excess level of noise while works are being carried out.	
	Within the framework of monitoring noise during the carrying out of works, the following is required:	
	measurement of the zero point,	
	 measurement of the highest levels (peaks) of noise during construction, 	
	 if during the course of works the limits of allowed levels of noise are significantly exceeded, in agreement with the owner of the structure, necessary mitigation measures are undertaken. 	
	The Contractor is responsible for all consequences which arise from excess levels of noise during the phase of construction.	
Soil	Relevant parameters for soil impact assessment are: pH, concentration of heavy metals, oils and organic substances. Soils near roads having a high frequency of traffic, as in this case, will be tested for hazardous substances, such as typical heavy metals and lead which may have accumulated from vehicle exhausts which still use	Monitoring of soil during the operation of the highway, monitoring the effects of operation of the future Highway, on the quality of soil, must be carried out at the edge of the "buffer zone" of highway. The Contractor will ensure a preliminary testing ("zero monitoring") of soil pollutants according to the Monitoring Plan of this ESMP document.
	leaded petrol which is still freely available in the region.	Following the preliminary testing a plan for further testing is created. For

Parameter	Construction phase	Operational phase
	The program for monitoring soil during the construction phase includes parameters which are authoritative for determining the level of endangerment of the same.	this purpose, the place of sampling is defined first. The number of samples depends on the preliminary testing and is related to the structure being tested.
	There is a wide spectrum of pollutants which have been categorized into the following two groups: heavy metals and greases and oils (remains of fuel, lubricants and motor oil, antifreeze, hydraulic fluid, etc). Samples must be taken before the commencement of works, at the time when humus is being removed and when excavation or the building of embankments of earth material is being carried out. In addition to this, sampling must be undertaken outside the Monitoring Programme schedule in a case of environmental accident (e.g. oil spill).	Parallel to the control of the quality of soil, the quality of underground water must also be monitored. The quality of underground water requires the monitoring of pollutants which are present in the soil and for the purpose of determining the effects of soil pollution on the pollution of underground water.
	In the situation when the measurement results and analysis indicate an increase of negative effects, it is necessary to determine the cause of the deteriorating condition and undertake the necessary mitigation measures. Until the cause of the deteriorating condition is determined, only works which do not have an influence on pollution of soil may be carried out.	

5.2 Social Monitoring

In order to enable the monitoring of the Project's impact on the affected communities during the preconstruction, construction and operation phase, the magnitude of the impact and the effectiveness of the proposed mitigation measures, baseline information are collected. Therefore, the following baseline studies are conducted:

- Socio-economic baseline (sources of income, alternative sources of income (pension, welfare), agricultural production, dependant family members (old and/or disabled), etc.)
- Socio-demographic baseline (age, education, employment, housing, land ownership, size of households, etc.)
- Baseline conditions of the private assets (fences, structures, agricultural infrastructure, etc.)
- Baseline conditions of the public assets (roads, water, wastewater and energy networks, etc.)

Socio-economic and socio-demographic surveys will be repeated at the end of the land acquisition process (prior to the commencement of the construction phase) for a mid-term review of Project impacts and at the end of the construction phase for an end of term impacts evaluation.

Baseline conditions of private and public assets in the Project affected area will serve as ground for determining if there is any Project-inflicted damage on them and ensuring that the damage will be adequately compensated and/or remediated.

Project specific Stakeholder Engagement Plan has been developed as part of Preliminary Design. Its implementation is jointly the responsibility of "Koridori Srbije doo Beograd" and the Contractor. All stakeholder activities (public announcements, public and individual meetings, surveys, official correspondence, etc.) will be recorded and included in Contractor's reports to "Koridori Srbije doo Beograd" and annual external reports on the E&S performance of the Project.

Resettlement Framework has also been developed and it includes requirements for monitoring with designated responsibilities and defined key performance indicators.

Project impacts on the affected people and communities and the effectiveness of mitigation measures will be monitored through the grievance mechanism. All grievances will be recorded in the Grievance Log Register, which will allow their categorization and tracking. Contractor's monthly reports will contain the number of new grievances received, their summary and update on the previously unresolved ones. This will enable to assess the efficiency of the grievance mechanism and update it accordingly and to introduce new measures to mitigate the Project impacts that caused the submission of grievances.

In advance of the work commencing the Contractor is obliged to provide KS and local environmental authorities with name and contact details of community liaison officers who are appointed to work with local communities. This information should be also printed in large scale and placed on visible place at the entrance of construction site.

A Grievance Mechanism will be implemented to ensure that all complaints from local communities are dealt with appropriately, with corrective actions being implemented, and the complainant being informed of the outcome. It will be applied to all complaints from affected parties. A grievance form is attached in Appendix 4 and hard copies will be made available at community centres.

Examples of Social Monitoring Matrix is provided in Appendix 1 of this report.

6 Contractor's Site Specific Environmental and Social Management Plans

6.1 List of Environmental Management Plans to be developed

Considering all the identified impacts, it becomes essential for the Contractor to prepare and later conscientiously implement the ESMP throughout the duration of the project to ensure compliance with legislative and Lender requirements. The emphasis of the ESMP shall be on the following:

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
Waste and Wastewater Management Plan	Contractor to prepare and ensure implementation;	Prior to the commencement of construction works	Plan will, as a minimum, include information regarding national and local legal requirements related to:
	Supervision Engineer/ IESC/LTA to		waste management,
	approve; "Koridori Srbije doo Beograd" to monitor		• types of waste which will be generated during the Project execution,
	implementation trough appointed Supervision Engineer / IESC/LTA		waste management hierarchy (prevention, reducing, reuse, recycling and disposal),
			waste management operations,
			waste segregation procedures,
			on site temporary waste storage,
			site rules of waste collection and storage,
			• transportation of waste,
			recycling and disposal of waste materials (All construction waste materials including drums, lumber, sand and gravel, cement bags etc. are to be suitably
			disposed of. If these cannot be recovered for scrap value these materials should be taken to an approved
			landfill sites for safe disposal.) Contractor's

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			Environmental Protection Plan CEPP should cover all aspects of waste management, including implementation of practice standards such as reduce, re-use and recycle. The Waste Management Plan will, as a minimum, include details of temporary waste storage, waste transfer and pre-treatment prior to final disposal or recycling. Licensed/approved facilities for solid and liquid waste disposal must be used and a duty of care and chain of custody for all waste leaving the site will be followed. As part of the plan Contractors will be expected to produce waste handling forms for chain of custody, which will be used to control waste leaving site. Thus, the waste controller will keep a copy of the form and the driver will always carry a copy and will ensure that the load is signed for at the final disposal site. All records will be kept by the Contractor for audit purposes and to demonstrate that the project is complying with best practice and applicable legislation.),
			 Guides on management of waste based on type (communal, construction, etc.), management of wastewater resulting from construction
			activities (stone works, concrete production, etc.) and sanitary wastewater, • list of identified ES impacts,
			 list of mitigation measures and corrective actions, defined responsibilities for the implementation (Contractor's to provide Plan to the Subcontractors and his own staff and undertake ongoing monitoring and

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			review of waste management activities across the Project sites and facilities including Subcontractor's, Subcontractor's responsibilities, number of nominated personnel and contact details, • waste management services providers, • training programme, • monitoring programme, • reporting Plan include provision of sanitary facilities and an appropriate system for the collection and disposal of wastewater in order to prevent pollution of watercourses, in case of possible existence of camp for workers
Hazardous materials and Hazardous waste Management Plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Prior to the commencement of construction works	Plan will, as a minimum, include information regarding Lenders, international, national and local legal requirements related to: • management of hazardous substances and waste management (Hazardous waste will be stored and removed from the construction site on demobilization, in accordance with the Law on Waste management ("Official Gazette of RS", 36/09 88/2010, 14/2016 and 95/2018 – other law)) • types of hazardous substances which will be used, • types of hazardous waste which will be generated during the Project execution, • types of hazardous waste which will be generated during the Project execution, • waste management operations, • waste segregation procedures, • on site temporary hazardous substances and waste

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			storage, site rules of hazardous waste collection and storage, transportation of hazardous substances and waste from the site to the storage facilities, temporary storage of oil and fuel and other hazardous substances organisation and requirements, list of identified potential ES impacts, list of pollution prevention mitigation measures and corrective actions, defined responsibilities for the implementation (Contractor's to provide Plan to the Subcontractors and his own staff and undertake ongoing monitoring and review of hazardous waste management activities across the Project sites and facilities including Subcontractor's, Subcontractor's responsibilities, number of nominated personnel and contact details, waste management services providers), defined the accident response requirements and trainings training programme, monitoring programme,
Watercourse Management Plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Prior to the commencement of construction works	Plan will, as a minimum, include information regarding Lenders, international, national and local legal requirements related to: • protection of the water bodies; • procedures and plans for safeguarding aquatic habitats and fish during in-river work and will complement the highway construction Method Statements.

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			method statements of all works which will take place in the vicinity and inside bed of the
			watercourses including river regulation and bank stabilisation works;
			list of identified potential ES impacts;
			list of mitigation measures and corrective actions;
			defined roles and responsibilities;
			training programme;
			monitoring programme;
			• reporting.
Water Supply Management Plan	Contractor		Undertake water supply monitoring
	Supervising Engineer Local water company		Liaison with water utility company regularly to design response plans and alternative water supply and prevent disruption in supply.
Mechanism and organizational structure management plan			Plan will include details of the means by which local people and other project affected persons (PAP) can raise grievances arising from the highway construction activities and how these will be addressed (e.g., through dialogues, consultations, etc.) (see Appendix 4 for the Project grievance mechanism).
Traffic Management Plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve;	Prior to the commencement of construction works	Take into account alternative for the 5 km section; Keep alternative routes at all times. Fence site boundaries and present route of alternatives, Organization of commute from camp to project to

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
	"Koridori Srbije doo Beograd" /Local Government to monitor implementation trough appointed Supervision Engineer / IESC/LTA		 reduce traffic; Road safety training and defensive driving training for staff; Sanctions for reckless driving; Take into account daily transportation timetable of children especially during the school year; Local government engagement with contractor and communities to identify accident hotspots and formulation of solutions; conduct road and traffic safety awareness campaigns
Camp Management Plan ³	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Prior to the commencement of construction works	Plan will, as a minimum, include information regarding Lenders, international, national and local legal requirements related to: • licenses, approvals, consents and other related documentation • camp location layouts with detailed disposition of all objects, defined water and power supply network, waste and wastewater management • Layout of the work camp and details of the proposed measures to address adverse environmental impacts resulting from its installation. Description and layout of equipment maintenance areas and lubricant and fuel storage facilities including distance from water

³ In case of possible existence

sources/bodies; defined roles and responsibilities training programme monitoring programme Reporting. The CEPP should contain procedures for establishing and operating construction camps in order to safeguard nearby communities and environmental resources. In case of requirement for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation resources to the implementation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation resources to the implementation; become for the commencement of the commencement of the proposed material extraction site and local legal requirements related to: borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements regarding licenses, approvals, consents and other related documentation; list of identified ES impacts; list of mitigation measures and corrective actions; transportation material management; defined roles and responsibilitie	Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
Borrow pits and Deposit Sites Management Plan Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Worldori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer / IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Worldori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites will be designed in line with EBRD/IFC Guidance Note for workers accommodation regarding Lenders, international, national and local legal requirements related to: • borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements regarding licenses, approvals, consents and other related documentation; • list of identified ES impacts; • itransportation material management; • defined roles and responsibilities;				sources/bodies;
* monitoring programme * Reporting. * The CEPP should contain procedures for establishing and operating construction camps in order to safeguard nearby communities and environmental resources. In case of requirement for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer / IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA **Supervision Engineer / IESC/LTA** Prior to the commencement of construction works Lenders, international, national and local legal requirements related to: **borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements regarding licenses, approvals, consents and other related documentation; **list of identified ES impacts;* **list of mitigation measures and corrective actions;* **transportation material management;* **defined roles and responsibilities;*				defined roles and responsibilities
Reporting. The CEPP should contain procedures for establishing and operating construction camps in order to safeguard nearby communities and environmental resources. In case of requirement for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation Borrow pits and Deposit Sites Management Plan Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer / IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / I				training programme
The CEPP should contain procedures for establishing and operating construction camps in order to safeguard nearby communities and environmental resources. In case of requirement for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation regarding leansers accommodation regarding leansers in the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation regarding leansers in terms and local legal requirements related to: - borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements regarding licenses, approvals, consents and other related documentation; - list of identified ES impacts; - list of mitigation measures and corrective actions; - transportation material management; - defined roles and responsibilities;				monitoring programme
and operating construction camps in order to safeguard nearby communities and environmental resources. In case of requirement for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation Borrow pits and Deposit Sites Management Plan Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer / IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer / IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Borrow pits and Deposit Sites Contractor to prepare and ensure and ensure seconomodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation on site, the facilities will be designed in line with EBRD/IFC Guidance Note for workers accommodation Plan will, as a minimum, include information regarding Lenders, international, national and local legal requirements related to: • borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements related to: • borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements related to: • borrowing material (a plan indic				Reporting.
Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites Contractor to prepare and ensure implementation; Supervision Engineer / IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Borrow pits and Deposit Sites Contractor to prepare and ensure implemented ensure implementation; Supervision Engineer / IESC/LTA Prior to the commencement of construction works Plan will, as a minimum, include information regarding Lenders, international, national and local legal requirements related to: • borrowing material extraction site) and temporary and permanent deposition of surplus material including requirements regarding licenses, approvals, consents and other related documentation; • list of identified ES impacts; • list of mitigation measures and corrective actions; • transportation material management; • defined roles and responsibilities;				and operating construction camps in order to safeguard
Management Plan implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA Supervision Engineer / IESC/LTA Lenders, international, national and local legal requirements related to: borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements regarding licenses, approvals, consents and other related documentation; list of identified ES impacts; list of mitigation measures and corrective actions; transportation material management; defined roles and responsibilities;				site, the facilities will be designed in line with EBRD/IFC
• defined reparation measures to be implemented for the		implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed		Lenders, international, national and local legal requirements related to: • borrowing material (a plan indicating the location of the proposed material extraction site) and temporary and permanent deposition of surplus material including requirements regarding licenses, approvals, consents and other related documentation; • list of identified ES impacts; • list of mitigation measures and corrective actions; • transportation material management;

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			is finished;
			training programme;
			monitoring programme;
			• reporting.
Cultural heritage Management Plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Prior to the commencement of construction works	Plan will, as a minimum, include information regarding Lenders, international, national and local legal requirements related to: • protection of cultural heritage and archaeological sites, • Project specific Chance Find procedure, • defined roles and responsibilities, • training programme, • monitoring programme, • reporting.
Labour Management Plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Prior to the commencement of construction works	Plan will, as a minimum, include information regarding Lenders (with requirements of EBRD PR 2), international, national and local legal requirements related to: • working relationships, • child and forced labour, • non-discrimination and equal opportunity, • workers organisations, • wages, benefits and conditions of work, • retrenchment,

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			workers accommodation,
			grievance mechanism,
			 requirement that these provisions are incorporated in contractual agreements with contractors, subcontractors and suppliers, in order to ensure good labour and working conditions for all employees (full time, part time, temporary, seasonal or migrant workers) and non-employee workers, defined roles and responsibilities, training programme for fire safety, working at height procedure,
			monitoring programme,
			• reporting The plan will contain the requirement that these provisions are incorporated in contractual agreements with contractors, subcontractors and suppliers, in order to ensure good labour and working conditions for all employees (full time, part time, temporary, seasonal or migrant workers) and non-employee workers.
			The Plan will define the number of workers that will be engaged for the Project, as well as the measures to be implemented to incite local recruitment, including but not limited to, an analysis of the scale of available local workforce and supplier potential, based on which it will be determined the scope of resources will be sourced locally.
Land Acquisition and	PE Roads of Serbia / Consultant to	Pre-Construction Phase	PE Roads of Serbia as the entity responsible for land acquisition shall provide the following information and

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
Resettlement Action Plan	develop and ensure implementation;		data relevant for the survey:
			 Inventory of PAPs and land affected by land acquisition, per cadastral municipality and the following details: Cadastral municipality, personal details Name and Surname, number of land plot total area, area affected by land acquisition, details of co-owners (if any) and details of structures and any other assets attached to the land. Inventory of PAPs with affected structures inclusive of details. Valuation / assessment for each parcel and asset. Inventory of PAPs who submitted requests to surrender orphan (in accordance with Article 10 of the Law on expropriation) including details of the outcome. Data obtained during the survey shall be adequately copied into excel tables and charts with frequencies presented adequately.
Oil and fuel storage management plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Pre-Construction Phase	Plan will include all procedures for storage, transportation and usage of oils and fuels, refuelling of plant and machinery and procedures for minimizing the risk of ground and water contamination. All oils and fuels will be required to be stored within secondary containment of 110 % capacity and all spillages shall be cleaned up immediately. Re-fuelling vehicles will carry Spill Kits to enable spillages to be cleaned up as soon as possible. All categories of spillage will be reported in accordance with the Plan to be developed by The Contractor. Toolbox Talks would be expected to be delivered on an ongoing basis as

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			"continued training" and following any significant incident.
Soil Management Plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Pre-Construction Phase	Plan will include description steps to be taken to minimize the effect of erosion, measures to reduce topsoil depletion, transport roads and landfills
Dust management plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Pre-Construction Phase	Plan will include schedule for water spraying on access road and in nearby settlements along the project road, as well as list of equipment to be used; this applies to all of construction sites and haul roads. During highway construction, when dust may be generated, the Contractor will monitor the worksite conditions and apply dust control measures, which include reducing construction traffic movements and spraying water on exposed areas.
Noise Management Plan	Contractor to prepare and ensure implementation; Supervision Engineer/ IESC/LTA to approve; "Koridori Srbije doo Beograd" to monitor implementation trough appointed Supervision Engineer / IESC/LTA	Pre-Construction Phase	Plan will include measures which will ensure that noise does not affect the adjacent communities, in accordance with the Law on noise protection ("Official Gazette of RS", 36/09). While it is unlikely that noise will be an issue due to the large distances between the activities and the communities the Contractor will confine all work to daylight hours (07:00hrs – 19:00hrs) should the community find that any night-time operations become a nuisance.

Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
Contractor, "Koridori Srbije doo Beograd"	Pre-Construction Phase	Plan will contain procedures for emergency response in the event of accidents or major incidents, in order to safeguard people, property and environmental resources. Details of the spill response equipment to be provided on site are to be specified.
Contractor, "Koridori Srbije doo Beograd"	Post Construction Phase	 Clearance and rehabilitation of construction sites and removal of contractor's facilities: It is the Contractor's responsibility to address site clean-up. This includes the removal of all waste materials, machinery and any contaminated soil.
		The contractor will develop a plan for closure and rehabilitation for the borrow pits and deposit sites.
		 The contractor will develop a plan for handover, sale or removal of all plant, vehicles and machinery to ensure that no unserviceable items are left on the construction site, in accordance with the Law on Waste management ("Official Gazette of RS", 36/09).
		• All construction sites and work areas will be rehabilitated so that these can be returned as close as possible to their previous uses. This includes the stabilization and landscaping of all of the construction sites. No waste will be left on site after the work is completed, in accordance with the Law on environmental protection ("Official Gazette of RS", 135/04, 36/09, 72/09). Should the Contractor fail to remove the waste, the "Koridori Srbije doo Beograd" is entitled to withhold payment and arrange the clean-up
	approval and implementation Contractor, "Koridori Srbije doo Beograd"	approval and implementation preparation Contractor, "Koridori Srbije doo Beograd" Pre-Construction Phase

Name of the Management Plan	Responsibility for preparation, approval and implementation	Deadline for preparation	What will it contain?
			charges from the final payment.
Community grievance mechanisms	Central Feedback Desk (CFD) at the level of "Koridori Srbije doo Beograd" During the Construction Phase the Contractor shall assign the role of a Grievance officer to complement the existing grievance mechanism. The CFD and the Contractors grievance officer shall liaison closely and publish reports on grievance jointly semi-annually following the procedure and tools, and covering the range of stakeholders		 The CFD shall be responsible for receiving and responding to grievances and comments of the following two groups: A person directly affected by the project including the impact due to land acquisition, resettlement and rehabilitation measures, Residents interested in and/or affected by the project living in the affected municipalities. The mechanism adopted for raising, redress, timeframes, communication with grievant, anonymous grievances, administration communication and reporting will accordingly apply to Contractor grievance mechanism. The Contractor Grievance officer will monthly report to CFD about number of grievances received, categories of grievances, time taken for resolution of grievances, percentage of resolved grievances etc The Contractor Grievance officer will inform grievant about the possibility to raise grievance before Project CFD if not satisfied with the decision of the Officer. If that grievance is then raised before CFD, CFD will issue its final decision covering the range of stakeholders as designed in the SEP.

6.2 Roles and responsibilities

The broad role of each party involved in the Project in relation to the ESMP is identified below.

- EBRD and EIB: Financing but not directly developing the Project. Responsibility is therefore passed to the Project Owner, although reports will be required to be submitted to the EBRD on the status of the ESAP, resolution of grievances and EHSS performance of the project.
- Contract Supervision Consultant (CSC): Overall responsibility for planning, implementation, monitoring and enforcement of activities associated with this ESMP and environmental, social, health and safety performance. Ensuring that all parties understand, implement and comply with the measures identified during construction and operation.
- The designer, responsible for implementing the design control process, to ensure the measures identified in the ESMP are implemented during the development of the detailed design.
- Contractor: Responsible for the implementation of appropriate mitigation measures identified in the ESMP during the construction phase to minimise the environmental and social impacts that may occur during construction and to record all public complaints via a well-defined complaint logging procedure and take the necessary action to manage the issues. All contractors and subcontractors shall comply with and apply the ESMP as applicable to the tasks they are instructed to complete.

7 Implementation

7.1 Training, Awareness and Competence

Environmental training sessions will be organized in accordance with the Training Procedure.

The Training Procedure will be developed by the Contractor and approved by the Engineer with, notification to "Koridori Srbije doo Beograd" prior to start of construction.

Initial training program to be prepared and approved before the commencement of works. Other yearly programs will be prepared and approved before the previous expires.

7.1.1 Induction Training and Employee Handbook

All Project personnel and visitors will receive the Induction training before entering the Project sites and facilities. The Project personnel and visitors to be informed about general Environmental and Social issues of the Project and possible risks of the Project activities. Presentation on the important points of the ESMS, methodology of the works and mandatory precautions to be organized.

The Induction Training includes the following subjects:

- Environmental Policy,
- Social Policy,
- H&S Policy
- Project objectives,
- Project standards,
- Environmental risks and impacts of the Project activities,
- Social risks and impacts of the Project activities,
- ES instructions of the Project sites and facilities,

• Emergency Response Plan.

After the Induction training, the Project personnel receives an Employee Handbook that contains the employee's training, identity information, emergency telephone numbers and some ES instructions. All Project personnel must carry their Employee Handbook with them if they are present on the Project sites and facilities, to be able to use it when necessary and to show it whenever they are asked for.

All visitors at the Project sites and facilities will receive the brochures with general principles of the Project's ES Management.

7.1.2 Determining Training Program and Frequency

The Contractor prepares training programs and organizes training sessions in accordance with the Training Procedure.

These will include:

- Training needs of the Project personnel are determined and listed,
- Initial training program will be prepared and approved before the commencement of the construction works,
- A yearly training program is prepared to meet the determined needs, the training program will be prepared and approved prior to expiration of the previous one,
- The training is recorded in the Training Participant Form. Records of all training conducted are maintained and available for inspections and audits or upon request.

As the training needs are defined, the training programs are developed and constantly updated to address changes in the Project Standards.

7.1.3 'Toolbox Talk' training

Site managers (Site engineer, foremen, etc.) to provide explanation on the ES issues and control methods on the daily activities on the Site trough 'Toolbox Talk' training.

'Toolbox Talk' trainings to be organized once per week, and more often if necessary; these training sessions are recorded and stored as Training Records by the ES Manager.

For specific situations, when necessary, external training expert will be invited for technical support related to specific trainings.

Specific training program should be developed and implemented on H&S, based on construction activities and level of risk evaluated.

7.2 Stakeholder engagement, Consultation and Communication

7.2.1 Public consultation during ESIA phase

7.2.1.1 Public consultation meeting in Municipality of Merošina

Public consultation meeting during ESIA phase was held in the Municipality of Merošina. This Municipality administratively cover the broader area of impact assessed in the wider corridor context.





Figure 6 Pictures from public consultation meeting in Merošina (Source CesCowi 2016)

This meeting was performed to provide information about the Project, the main ESIA Phase the future actions, discuss impacts and mitigation measures and answer any questions the participants might have. Special attention was given to understanding the concerns of the person directly affected by the Project.

In general, the community members who attended are strongly supporting the Project. They further communicated to the Team that the support is evident, but a spot of scepticism is present since infrastructure projects in this part of Serbia have only been planned but not often brought to execution. They reported expectations that the Project will bring development opportunities, employment, service provider level increase, and even contribute to promotion of the two tourist destination namely Lake Oblacina and Lake Krajkovo. Some reference was made to some previous project failing to commence or complete which has been strongly advocated by a few stakeholders.

The issues have been discussed are: Land acquisition: Will the expropriation be conducted for the whole width of the alignment (both carriageways) given that their understanding was that construction shall be in phases and the first phase shall consider construction of one carriageway; Harmonization of local plans; Local and alternative roads and impacts relating to infrastructure. Point was raised suggesting the existing roads should be upgraded rather than demolished in order allow existing communication channels; Employment: Given the overall economic situation in Serbia in general many stakeholders were interested in employment opportunities for individuals but for the different sectors as well; Loss of assets: Many stakeholders were interested in the process that will be followed during land acquisition, including the fair compensation prior to commencement of works. This was a key concern especially in relation to landowners and farmers with land-based livelihoods. This was of particular concern. This is related to the high level of profitable agricultural productivity in this area, especially cultivation of fruit (cherries) and wines. Therefore, the community was concerned about restriction to use of land and level of compensation; Width of Highway: Stakeholders have taken interest in the width of the highway to assess the area of impact from land acquisition to and potential restriction of any future construction within the protective belt around the highway; Route selection: Representatives of the Company "ERGOMADE" were present and requested details about routing at the location of a specific land plot which was acquired by the company for purposes of erecting a new factory (6.500 sq.)

The picture below represents a Stakeholder issue map for the area of impact covering the Municipality of Merosina.

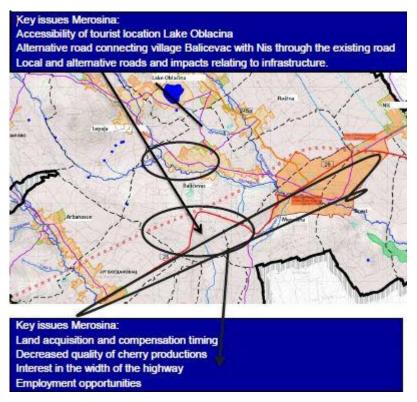


Figure 7 Stakeholder issue map Merosina

7.2.1.2 Focus group discussions in Merošina

In order to facilitate and capture the concerns and views of those stakeholders mapped as potentially most impacted discussions in focus groups were held. Stakeholders have been directly contacted and invited by individual invitations 10 days prior to the planned event date held on January 24, 2016. The Municipality assisted in organizing the discussions, providing contacts, inviting the targeted individuals, provided the venue and refreshments during the meeting.

Since the National Employment offices from Prokuplje and Merosina could not attend a separate meeting was scheduled and conducted on February 1, and 2, 2017. The purpose of this meeting was to assess the local pool of workforce.

7.2.1.3 Evaluation Method and Results

An assessment of effectiveness and achievement of broad community support cannot rely solely on the interpretation of internal stakeholders. The process and the outcome must be taken into review. The method used for both public consultation meetings was a combination of orally and participatory approach. At the end of the meetings attendees were asked three questions to rate the quality of meeting.

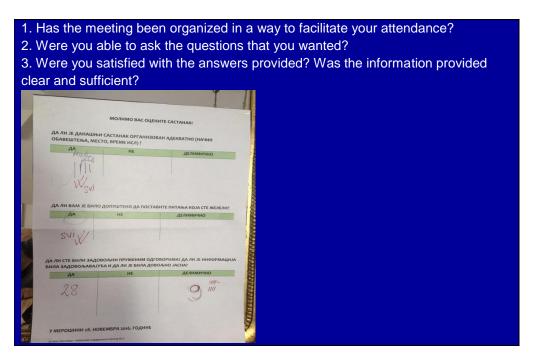


Figure 8 Evaluation of meetings and picture of evaluation poster

7.2.2 Public consultations during ESMP phase

As required by the EBRD's Environmental and Social Policy, a public consultation will be held during the preparation of the Environmental and Social Management Plan. ESMP and other project related information will be made public and available to the local community.

The "Koridori Srbi	je doo Beograd" company Office	No. 21, Kralja Petra Street, Belgrade
Local community centers		Municipality Merošina, no. 17 Cara Lazara street 18252 Merošina
Website – "K	oridori Srbije doo Beograd"	http://www.koridorisrbije.rs

Consultations with beneficiaries will be carried out during the execution phase, and environmental and social records, as well as grievances received during consultations, field visits, informal discussions, formal reports, etc., will be monitored, recorded and stored at the Project office in the company "Koridori Srbije doo Beograd"

Prior to work commencement, "Koridori Srbije doo Beograd" will provide public information through:

- Newspaper articles in one national and one of the local media,
- Posters on the main bulletin board in all local communities of potentially vulnerable communities,
- Radio traffic announcements,
- Providing contact with a competent person appointed to work with local communities.

An appeal mechanism will be implemented to adequately respond to grievance from local communities, corrective action will be taken and the grievances informed of the outcome. This applies to all stakeholder grievances. The grievance form is in Appendix 4 and will be available in writing at local community centers.

Prior to construction, during ESMP phase, there is a need for:

• Consultations around construction plans and schedule;

- Land acquisition planning and implementation;
- Consultation about health and safety and
- Consultation linked to COVID 19.

Mandatory restrictions and social distancing measures associated with Covid-19 rule out some traditional consultation approaches in the short term. Projects at a stage of active engagement with stakeholders therefore need to develop alternate plans, taking account of mandatory, national Covid-19 restrictions and social distancing. Some of alternate information disclosure and stakeholder engagement measures in light of Covid-19 restrictions; project leaflets, information postcards; email campaigns; text-based messaging; traditional media: newspaper, radio, television; community notice boards; social media (Facebook, Instagram); radio call-in shows; telephone engagement.

Government restrictions on social distancing and gatherings: Covid-19-related restrictions on public assembly differ throughout the economies. Engagement approaches therefore need to be tailored to comply with local restrictions and flexible as those restrictions are modified.

Report of Public consultation during ESMP phase will be given within Appendix 3.

7.3 Inspection, monitoring and auditing

All controls and inspections within the Project ESMS will be carried out according to the Performance Measurement and Monitoring Procedure to be developed by the Contractor prior to the construction in line with the Framework ESMP.

The Performance Measurements and Monitoring are carried out with the appropriate check lists and follow-up lists. The corrective measures are followed up by the Contractor's ES Manager, Engineers and Corridors of Serbia's Environmental Engineer(s) and Social Expert(s).

7.3.1 Inspections

The Contractor and Subcontractors perform daily and weekly inspections on the Project sites and faculties.

7.3.2 Internal Audit

The Project's ESMS will be reviewed by the internal ES Auditors according to the Internal Audit Procedure which will be developed by the Contractor, not less than twice a year. In case Internal Audit findings reveal inconsistencies, necessary corrective actions will be undertaken in accordance with the Corrective and Preventive Actions Procedure. Development of the Corrective and Preventive Actions Procedure is responsibility of the Contractor.

7.3.3 External Audit

The Project's ESMS is reviewed/audited by the external auditor (Lenders Technical Consultant), at least every year.

7.4 Reporting

Prior to commencement of construction works, the Engineer determines respective reporting forms and distributes these among the Contractor and Subcontractors respectively, with notification to "Koridori Srbije doo Beograd".

The reporting forms will be reviewed at least semi-annually during the performance measurement.

7.4.1 Monthly Reports

Every month the Contractor compiles Subcontractors' weekly ES performance reports and prepares a monthly ES performance report. This report is submitted to "Koridori Srbije doo Beograd" and Engineer for the review and approval.

Monthly ES performance reports are reviewed and adopted at monthly ES Management meetings.

The Contractor's Monthly Report will provide as a minimum information about noted environmental, social and H&S issues, available documentation regarding Contractor's and Subcontractor's nominated personnel for ES Management, relevant communications/correspondence, ES actions undertaken during the subject month, Non-Compliance reports, grievance log/records, monitoring results, borrow pits and deposit sites status, obtained/available permits and consents, contracts with licensed companies (e.g. management of hazardous waste, monitoring, etc.), records of generated and disposed waste, waste transfer documents, training and 'toolbox talks' register and site photographs.

7.4.2 Weekly Reports

The Subcontractors prepare weekly ES performance reports according to the forms approved in advance by the Engineer, with notification to "Koridori Srbije doo Beograd". Weekly reports are submitted to the Contractor at weekly meetings or other previously agreed manner and finally, submitted and approved by Engineer, with notification to "Koridori Srbije doo Beograd".

7.4.3 Annual and Semi-Annual Reports

At the middle and at the end of each year, the Contractor prepares semi-annual and annual ES Report. This report will summaries all actions and activities regarding environmental and social management undertaken during annual project course. Annual Report will be submitted to the Engineer and "Koridori Srbije doo Beograd" in previously agreed manner.

7.4.4 Project Construction Completion Report

Upon completion of the construction, the Contractor will prepare the Construction Completion ES Activity Report. This report is submitted to Engineer and "Koridori Srbije doo Beograd" for review and approval.

7.5 Accidents, Incidents, Non-Conformances, Corrective, Preventive Action and Accident Investigation

7.5.1 Recording and Logging

All incidents (including accidents, spills, work-related illnesses, damages, near misses etc.) will be immediately reported to the to the "Koridori Srbije doo Beograd" (either via the Supervision Engineer or supported by IESC or LTA) through the Accident, Incident, Non-conformance Form to be developed as part the Accident-Incident-Non- Conformance Reporting Procedure.

If any kind of accident or endangerment of environment happens, reporting will be immediate. Contractor is obliged to inform the project manager and local authorities about accidents immediately after it happened. In case that project manager is not responding on a call, the Contractor is obliged to inform KS about accident (phone number +3813344174 or via E-mail on following address: office@koridorisrbije.rs).

7.5.2 Accident Investigation

For any serious incident (including injury resulting in more than 2 days' time loss, more than € 1,000

resulting damage, spills over 5 litres) the Contractor will inform "Koridori Srbije doo Beograd" either via the Supervision Engineer or supported by IESC or LTA) within 24h via Accident, Incident, Nonconformance Form.

In addition to this, the Contractor will provide detailed written Accident Report which will include as a minimum:

Initial Accident Report (within 3 days of the incident):

- A brief description of the accident;
- Persons and companies involved;
- Details of the accident;
- Photos/Videos.

Complete Accident Report (within maximum of 2 weeks):

- Investigation activities;
- Analyses and results (Root cause);
- Advices and Corrective and Preventive Actions (with implementation
- timeline);
- Lessons Learned;
- Photos/Videos
- Training of the personnel

The "Koridori Srbije doo Beograd" (either via the Supervision Engineer or supported by IESC or LTA) will be responsible to review and approve these reports and monitor implementation of any corrective and preventive actions identified.

Appendix 1

Environmental Mitigation Plan

	Issue Mitigating measure		Institutional responsi		Comments
Phase			Install	Supervision	(e.g. secondary impacts)
Pre-Construction		Technical Documentation			
	Technical documentation in conflict with ESMP	The Designer is obliged to make design documentation in line with ESMP	Designer	"Koridori Srbije doo Beograd"	
	Following the environmental protection procedure	Conditions from the Institute for Nature Protection of Serbia and Institute for Protection of Cultural Monuments Nis are obtained to avoid environmental risks	"Koridori Srbije doo Beograd" and Designer Consultant	"Koridori Srbije doo Beograd"	
	Construction site location and organisation will be approved by "Koridori Srbije doo Beograd" and selected so as to:	 be outside of the river banks of watercourses in the vicinity have no impact on the environment and the local community (noise, dust, vibrations etc.) be outside the high vegetation area minimise the size of the facilities to minimise the unnecessary removal of vegetation have the sanitary wastewater discharged into waterproof tanks or treated before the water is discharged into the surface water system, in accordance with the Law on Water (RS Official Gazette No 101/05) properly drain the locations. Paved areas, including parking areas, workshops and fuel storages must be drained toward an oil-water separator whenever possible, limit the area to be cleared and avoid 	Contractor	"Koridori Srbije doo Beograd"	

		Issue Mitigating measure		Institutional responsibility		
Phase	Issue					Supervision
	Selection of the location for temporary settlement construction, in the vicinity of or within	 topsoil degradation the material removed will be collected, disposed and/ or reused as needed prevent soil erosion on site contractor is responsible for implementing the measures for erosion protection contractor shall limit the scope of the excavations to mitigate soil erosion contractor shall implement soil conservation method in sensitive areas to prevent or minimize the storm water runoff, which causes material erosion Contractor is to avoid excavation and machine operations in damp site conditions. minimum distance must be kept (buffer zone) between the site and the nearest populated area influence of the local conditions must be accounted for (wind) to avoid or minimise harmful effects 	Contractor	"Koridori Srbije		
	an existing settlement; Influence on public health and sociological circumstances	 contractor's ESMP defines health and safety and environmental measures Independent water and electricity supply, in addition to a medical service station on site must be planned for. Plan for safe and adequate pedestrian crossing facilities that	Contractor	doo Beograd"		
	Road safety issues associated with pedestrian crossing	can be in most cases over passages equipped with ramps and structures that allow the use of wheelchairs, pushcarts, bicycles and prams.	Designer- Consultant	Technical control "Koridori Srbije doo Beograd"		
	Stakeholder engagement	Details of the proposed road route, access points and safety features will be disclosed at the location of the planned works. Feedback from local stakeholders will be sought and recorded.	"Koridori Srbije doo Beograd" and Designer	Technical control "Koridori Srbije doo Beograd"		

		Institutional responsibility		Comments		
Phase	Issue	Issue Mitigating measure		Supervision	(e.g. secondary impacts)	
		Evidence of how feedback has been considered will be recorded in the technical documentation	Consultant			
During Construction		Management plans				
		epare the implementation of the Plans described in the ESMP, to islation and Creditor's requirements have been met:				
	Waste and Wastew	ater Management Plan				
	Hazardous materia	Hazardous materials and Hazardous waste Management Plan				
	Watercourse Manage					
	Water Supply Mana	agement Plan				
	Mechanism and org	ganizational structure management plan				
	Traffic Managemen	t Plan				
	Camp Management	t Plan ⁴	Contractor	"Koridori Srbije doo Beograd"		
	Borrow pits and De	posit Sites Management Plan		doo beograd		
	Cultural heritage M	anagement Plan				
	Labour Managemer	nt Plan				
	Economic Displace	ment and Resettlement Action Plan				
	Oil and fuel storage	e management plan				
	Soil Management P	lan				
	Dust management	plan				

⁴ In case of possible existence

			Institutional responsibility		Comments
Phase	Issue	Mitigating measure	Install	Supervision	(e.g. secondary impacts)
	• In-river works man	agement plan			
	Noise Management	Plan			
	Emergency response	se plan			
	Recultivation Plan				
	Community grievar	nce mechanisms			
		Site Induction			
	All workers and visitors instructed on the need	s to the site shall be given a health and safety induction and to use PPE.	Contractor	"Koridori Srbije doo Beograd"	
		Material Supply			
	asphalt plant: dust, fumes, health and safety of workers, ecosystem disturbance	 use the existing asphalt plants; requirement for official approval or valid operating license 	asphalt plant	asphalt plant	
	quarry: dust, health and safety of workers, ecosystem disturbance	use the existing quarries;requirement for official approval or valid operating license	quarry	quarry	
	sand and gravel borrow pits: riverbed disturbance, quality of water, ecosystem disturbance	 use the existing borrow pits or buy material from licensed separation facilities; requirement for official approval or valid operating license 	contractor or gravel and sand separation facility	contractor or gravel and sand separation facility	

			Institutional	Comments				
Phase	Issue	Mitigating measure	Install	Supervision	(e.g. secondary impacts)			
	asphalt: dust, fumes	all trucks need to be coveredcontractor's machinery to be carefully selected	truck operator	truck operator				
	stone: dust	wet truck load	truck operator	truck operator				
	sand and gravel: dust	wet truck load	truck operator	truck operator				
	management of traffic noise, exhaust fumes and road congestion	 haul material at off-peak traffic hours (9-14h) use alternative roads to avoid main roads proper road signs and markings of the site, to minimise chances of a wrong turn 	transport manager truck operator	transport manager truck operator				
	Possibility of encountering an archaeological site	if an archaeological site is encountered, contractor shall immediately suspend the works and inform IPCM and "Koridori Srbije doo Beograd".	contractor	contractor's supervision				
	Construction	Construction Site						
	negative impact of noise on the workers and local community	 limit the activities to daylight working hours use equipment with noise mufflers, licensed and approved in accordance with the EU standards use noise barriers for the works that produce noise for more than one day on the same location. locate noise-making equipment as far away as possible from residential buildings and other noise sensitive receptors. 	contractor	contractor's supervision				
	dust	 spray the problematic areas on site with water cover the material stored and limit vehicle speed 	contractor	contractor's supervision				

			Institutiona	Institutional responsibility	
Phase	Issue	Mitigating measure	Install	Supervision	(e.g. secondary impacts)
		implement the Dust Management Plan: measures for avoiding dust emission, including hoarding, spraying the problematic areas, accesses, material and stockpiles during the loading and unloading activities, covering the trucks that carry dusty material, washing the trucks etc.			
	vibrations	 limit activities to daylight working hours if there is material damage to the local houses, buildings and infrastructure (access roads included) caused by the works, the damage will be compensated for and will have to be rectified locate the equipment for earth works as far away as possible form vibration-sensitive receptors 	contractor	contractor's supervision	
	traffic disruption during construction activities	Traffic Management Plan with appropriate measures for traffic diversions that can be easily noted and followed, including traffic police assistance - Traffic Management Plan will define a speed limit for the construction vehicles and organise traffic in such a way that populated areas are avoided as much as possible - during the works, maximum use of the existing road network. Avoid the construction of new temporary roads, which would increase the habitat fragmentation - inform the local community about the works planned	contractor	contractor's supervision	
	Potential impact on flora	Consider all the relevant measures during construction works regarding protection of trees along the road, in order to avoid any damages.			
	Potential impact on water	Appropriate drainage of the site must be provided. Locations used for car parking, workshops and fuel storages must be drained toward the oil-water separator; Sanitary wastewater and polluted water must be discharged into waterproof pits or treated before the water is discharged into the surface water flow system,	contractor	contractor's supervision	

				Institutional responsibility	
Phase	Issue	Mitigating measure	Install	Supervision	(e.g. secondary impacts)
	reduced access to roadside activities	provide an alternative access to roadside activities at all times	contractor	contractor's supervision	
	safety of vehicles when / where there are no construction activities	lighting and well-defined safety signs and protection measures	contractor	contractor's supervision	
	soil and water pollution from improper material storage, management and use	 organise and cover material storage areas isolate the concrete, asphalt and other from the watercourse by using sealed formwork or covers isolate the areas for washing the concrete or asphalt trucks and other equipment from the watercourse by choosing areas for washing which are not freely drained directly or indirectly into the watercourse organize the site so as to minimize the risk of generating sediments and accumulating wastewater, which could cause pollution of the surrounding soil and water Soil Management Plan to provide controlled removal, storage and re-use of topsoil use local controlled measures to prevent sediment flowing into surface water and drainage channels. Some of the measures include physical obstacles such as fences, mulch barriers, geotextile, rocks, sediment basins. to prevent sediment flowing into surface water, slope of the soil and protection form wind erosion must also be considered, by installing fences, covers etc. any deposits of excess soil, stone etc. may only be temporary, until the works have been completed. After that, excess soil, stone and other waste material must be removed and complete rehabilitation of all areas degraded by the works must be done. 	contractor	contractor's supervision	

			Institutional responsibility		Comments
Phase	Issue	Mitigating measure	Install	Supervision	(e.g. secondary impacts)
	soil and water pollution from improper waste material disposal	 dispose waste material at a location protected from washing out, on a marked location, if not on site, then on an authorised landfill (It is very important recommendation that the authorized landfill is sanitary and in accordance with the European standards and regulations of the Republic of Serbia) dispose waste in accordance with best international practice (IFC, EHS – general guidelines). apply additional measures for storing hazardous waste (secondary containment, limiting the access, providing PPE etc.) to prevent negative effects on the workers, local community or environment nominate a person responsible for waste collection and storage (hazardous and non-hazardous) 	contractor	contractor's supervision	
	potential contamination of soil and water from improper maintenance and fuelling of equipment	apply the best engineering practice in handling and safe storage of lubricants, fuel and solvents, ensure proper loading of fuel and equipment maintenance, collect all waste and dispose it on authorised recycling locations	contractor	contractor's supervision	
	soil and water pollution from improper waste material disposal	transport the waste in marked vehicles designed for waste transport, to minimise the risk of releasing hazardous and non-hazardous substances - train the drivers in handling and disposal of the load they transport and transport documents describing the nature of the load (waste) and its degree of hazard	contractor	contractor's supervision	
	safety of workers	 provide workers with safety instructions and PPE provide a safe alternative traffic flow 	contractor	contractor's supervision	
	areas temporarily	undertake re-vegetation with native species and monitor the effects (avoid invasive species those that cause allergic	contractor	contractor's	

			Institutional responsibility		Comments
Phase	Issue	Mitigating measure	Install	Supervision	(e.g. secondary impacts)
	occupied	reactions) • where initial plantings were not successful, carry out replanting		supervision	
Operation	Maintenance	2			
	negative impact of noise on local residents and workers	 limit activities to daylight working hours, or as agreed with the authorities use the equipment with noise mufflers installed 	maintenance contractor	maintenance contractor's supervision	
	potential air, water and soil pollution: dust, exhaust fumes, spilt fuel, oil and lubricants	 apply the best engineering practice in handling and safe storage of lubricants, fuel and oil ensure proper loading of fuel and maintenance of equipment collect and dispose all waste in accordance with the Law on Waste Disposal properly organise and cover the areas for material storage isolate concrete and asphalt works from the watercourse by using sealed formwork isolate the area for washing trucks for the transport of concrete and asphalt and all other equipment from the watercourse, by choosing the area for washing where the water is not freely drained directly or indirectly into the rivers dispose the waste material to suitable locations protected from washing out 	maintenance contractor	maintenance contractor's supervision	
	vibrations	limit activities to daylight working hours, or as agreed with the authorities	maintenance contractor	maintenance contractor's supervision	

	Issue		Institutional	Comments	
Phase		Mitigating measure	Install	Supervision	(e.g. secondary impacts)
	safety of workers	 provide workers with safety instructions and PPE organise safe traffic bypass 	maintenance contractor	maintenance contractor's supervision	
	increased vehicle speed	install speed limit signs	install speed limit signs maintenance contractor super		
	erosion, rockfall, hazardous situation	install suitable warning signs (rockfall, landslide, wet or slippery conditions, dangerous curve, animal crossing, slow traffic zone), reflective markings indicating steep slopes or convex mirrors in curves where there is a lack of visibility, warning signs on locations considered appropriate in line with good engineering practice or as agreed with the authorities	maintenance contractor	maintenance contractor's supervision	

Environmental Monitoring Plan

Phase, item	WHAT is the parameter to be monitored?	WHERE Monitoring location details	HOW Type of monitoring equipment	WHEN Frequency of sampling /measurements	WHY the parameter will be monitored?	Institutional responsibility
Pre- Construction stage and Construction stage	Surface water quality	All streams along the route, in the construction areas, before and after construction work zone	Visual	Before building bridges and regulating the riverbed daily after heavy rainfall and weekly thereafter	Due to sediment loads	Contractor Supervisor
Construction stage	Soil erosion and sediment control	All construction sites and access roads Areas prone to erosion Disturbed areas	Visual or by erosion control devices, where required	Daily After major rainfalls	Erosion status/ soil stability	Contractor Supervisor
Construction stage	Disposal of excavated material (spoil) and top soil stockpiles	Spoil disposal areas and top soil stock piles	Visual and good community engagement mechanisms along with a grievance process	Daily	Stability / erosion issues	Contractor Supervisor
Pre- Construction stage	Soil quality	On every 4 km of highway route. In zones of 3, 10 and 100 m far from the highway route, on	soil quality testing equipment and laboratory analyzes	Once prior to construction	Particle size distribution, soil reaction, calcium carbonate content, organic matter	Contractor Supervisor

Phase, item	WHAT is the parameter to be monitored?	WHERE Monitoring location details	HOW Type of monitoring equipment	WHEN Frequency of sampling /measurements	WHY the parameter will be monitored?	Institutional responsibility
		its left and right side.			content, EC (due to use of salt on roads), soil compaction	
Construction stage	Groundwater	Dewatering areas (if any)	Monitoring equipment	Weekly	Groundwater level in dewatering wells to be monitored until the natural regime is re-established	Contractor Supervisor
Construction stage	Noise and vibration level	In the zone of affected receptors in Merošina	measuring equipment Good community engagement mechanisms along with a grievance mechanism	During construction works during which the prescribed noise and vibration levels are exceeded (construction of tunnels, installation of piles)	In order to introduce measures to protect the population (movable panels for noise protection) in case of exceeding the prescribed levels	Supervisor
Construction stage	Air quality	Maintenance locations for construction vehicles, plants and machinery, access roads, especially when adjacent to human and ecological receptors	air quality measuring equipment Good community engagement mechanisms along with a grievance mechanism	Daily	Fugitive dust, fine particulate matter (PM2.5, PM10) and exhaust emissions	Contractor Supervisor

Phase, item	WHAT is the parameter to be monitored?	WHERE Monitoring location details	HOW Type of monitoring equipment	WHEN Frequency of sampling /measurements	WHY the parameter will be monitored?	Institutional responsibility
	Terrestrial habitats and species	Along the route	Visually. - On site surveys - Biological research	- Prior the vegetation clearance - Monthly	Percentage of completion of required measures, including: passages, barriers, surveys for tortoises and nests. Percentage of implementation of mitigation measures, such as delimitation of clearance area, use of existing road network, fencing for protection of river banks and other habitats, timing of works Percentage of existing and new roads used for the Project to assess additional fragmentation Pre / During / Post Construction Survey	Contractor Supervisor
	Restoration of natural vegetation	At areas of natural and semi-natural habitats, especially riverine habitas	Photographs to compare before and after restoration situation at crossings	Before clearing of vegetation and after completion of restoration. Breeding bird season to be avoided for vegetation removal	For the purpose of habitat restoration upon completion of works	
	Water qualty	At the river	water quality	During crossing works	To check whether the quality of water	

Phase, item	WHAT is the parameter to be monitored?	WHERE Monitoring location details	HOW Type of monitoring equipment	WHEN Frequency of sampling /measurements	WHY the parameter will be monitored?	Institutional responsibility
		crossings	determining devices	One month after completion of works	has returned to its original condition after construction	
	Cultural Heritage	Along the route	Previous archaeological research	During entire duration of earthworks	To determine the possible existence of archaeological material	Institute for Cultural Heritage Protection of Nis
	Landscape	Construction sites and ancillary areas	Visually Requirements for planting and sowing in nature	Periodically, upon completion of construction at the section	Progress of new landscape works through construction	Contractor
Operation phase	1					
	Soil quality	same as in the case of sampling during the construction phase	soil quality testing equipment + laboratory analyzes	Once in spring and once in autumn		PE "Roads of Serbia"
	Surface water	Affected surface water body	Collect using pumps, buckets and tanks. For bigger watercourses use floating barriers and skimmers and absorption aids	Only in the event of accident		PE "Roads of Serbia"
	Erosion	Slopes of cuttings, embankments, other	Visual	Twice per year		PE "Roads of Serbia"

Phase, item	WHAT is the parameter to be monitored?	WHERE Monitoring location details	HOW Type of monitoring equipment	WHEN Frequency of sampling /measurements	WHY the parameter will be monitored?	Institutional responsibility
		areas prone to erosion				
	Wastewater quality from separators of light petroleum products	at the outlet of the separator	water quality measuring equipment	Four times per year	quality check before entering the recipient	PE "Roads of Serbia"
	Noise level	In the zone of affected receptors in Merošina	measuring equipment \	During construction works during which the prescribed noise and vibration levels are exceeded (construction of tunnels, installation of piles)	In order to introduce measures to protect the population (movable panels for noise protection) in case of exceeding the prescribed levels	PE "Roads of Serbia"
	Air quality	Maintenance	air quality measuring equipment	Once a year	In order to strengthen the implementation of population protection measures in case of exceeding the prescribed lev	PE "Roads of Serbia"
	Estimation of the use of fauna crossings / passages based on traces. Transition condition (vegetation at the entrances, water level, presence of obstacles).	Animal crossings, bio-corridors under bridges.	Visually	Twice a year except in the winter season.	If crossings are not used, alternative locations or measures should be considered.	PE "Roads of Serbia"

Phase, item	WHAT is the parameter to be monitored?	WHERE Monitoring location details	HOW Type of monitoring equipment	WHEN Frequency of sampling /measurements	WHY the parameter will be monitored?	Institutional responsibility
	Status of newly formed habitats Presence of autochthonous species in the renewed zones	Zones where vegetation restoration will be done	Visually	Every 6 months during the first 5 years of exploitation.	Depending on the progress, additional planting may be needed	PE "Roads of Serbia"
	Fauna mortality on the road by species or group of species so that all areas of the "hot spot" can be identified	At selected intervals along the road	Visual	Quarterly for at least two years of operation.	If hotspots of road death are detected, changes in the position of passages and / or environmental corridors should be considered.	PE "Roads of Serbia"
	Presence and relative abundance of bird species (including EU protected species as well as species designated by the Institute for Nature Conservation). Presence and relative abundance of mammals and herpetofauna (species Annex II EU 92/43 / EEC, as well as species designated by the Institute for Nature Protection). Changes in trends and	In selected locations of suitable habitat along the road, depending on the group of species / species	Engage professional organizations. For game species, cooperation with local hunting associations is important because they have data on weather occurrences	once a year	Based on the results of the research compared to the baseline study, identify and prescribe measures to mitigate the residual effect on the highway (if any)	PE "Roads of Serbia"

Phase, item	WHAT is the parameter to be monitored?	WHERE Monitoring location details	HOW Type of monitoring equipment	WHEN Frequency of sampling /measurements	WHY the parameter will be monitored?	Institutional responsibility
	(roe deer, wild boar, partridge and quail).					
	Fish populations (species presence and relative abundance) Turbidity Phytobenthos Macroinvertebrate populations (abundance and diversity) Aquatic vegetation	At the crossings of watercourses	manual network visually biological and biochemical analyzes hand net (dimensions 25x25 cm, eyelet diameter 500 µm) visually	Quarterly for the first 2 years of operation	check whether there is an impact	PE "Roads of Serbia"
	The condition of the vegetative cover The condition of rehabilitated zones and threatening processes (eg floods, erosion, etc.) that may affect the success of the rehabilitation	Slopes of cuts and embankments, tunnel portals, watercourses and shores under bridges; bridge supports, etc	Visually	Once a year in the spring	to see if renewal is needed	PE "Roads of Serbia"

Social Mitigation Plan

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures				
Preconstruction phase							
Local Overview and community suppo	ort (in compliance with requirements of EBRD PR 10)						
Expectation of benefits related to the	Manage expectations and avoid an express assurance on which expectation is to be based.	Promoter	Stakeholder				
Project	Implement Transparency	Local Government	Engagement Plan				
Impact to business planning of local	Make sure understanding of the timeline of the Project is clear.	Promoter	Stakeholder Engagement Plan				
business	Make sure the business decisions are not Project dependent to avoid liability of implementing entity, contractor or National Government	Local Government	Individual meetings with business				
	Compensation at full replacement cost including transaction costs/ taxes or Replacement land and additional assistance before displacement or imposition of access restrictions of businesses which are wholly or partially located in in the Right of Way		Resettlement Action Plan				
	Make sure the employment strategy is disclosed in a transparent manner early in the Project.	Promoter	Stakeholder Engagement Plan				
Expectations of Employment opportunities	Ensure the Contractor holds contractual obligation to prepare a transparent Employment Plan and ways of communicating the plan to the local communities	Contractor	Employment Plan				
		Local Government					
		Local Employment offices					
	Understand the social Context.	Promoter	Stakeholder Engagement Plan				
Legacy issues	Identify any legacy issues from another Project or activity or as a result of political context already at the pre-bid meeting stage	Contractor	Key informants interview				
	Make trustworthy information sources known to local community.	Promoter					
Rumour induced conflicts and inadequacy of information.	Prove value of communication channels and formal forums for information exchange.	Local Government	Stakeholder Engagement Plan				
		Contractor					
Gender							

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
	Prior to commencement of civil works disclose and discuss tentative timetable of disruption of transport.	Contractor	Stakeholder Engagement Plan
Disruption of travel patterns	Alternative routes should always be considered	Supervising Engineer	Announcement through local medias and posters
	Announce the strategy for road safety and regularly update the events.	Contractor	Stakeholder Engagement Plan
	Child safety awareness and training program in schools	Local Law enforcement	Road safety Plan
Impacts to safety of children			Awareness campaigns
			Community Health and Safety Management Plan
			Road safety training
Uncertainty about Project commencement and timelines	Clear and timely dissemination of Project dynamics	Contractor	Stakeholder engagement plan Focus groups discussion
		Contractor	Stakeholder engagement plan
Assessment of local women pool of experts	Early assessment of available workforce and skills amongst women for all positions needed	Local Employment office	Assessment of local pool report
		Promoter	
Infrastructure and utilities			
Natural and astimus time.	The presence of these utilities shall be assessed by the Construction Contractor	Caratura atau	Survey
Material and soil investigation	by means of a survey prior to construction works	Contractor	Emergency response plan
Inspection and assessment of condition and absorption capacity of local roads	The presence of these utilities shall be assessed by the Construction Contractor by means of a survey prior to construction works	Contractor	Survey Emergency response plan
Setting out	survey to identify the utilities along the alignment, located under and above ground such as water supply, sewerage, cable network, telephone and power supply	Contractor	Survey Emergency response plan
Tourism			

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
Expectation for economic benefits from accommodation of potential labour influx	Include the Hotel management during assessment of absorption capacity of influx workers	Contractor Local Government	Stakeholder Engagement Plan Close coordination between the Local government and Promoter
Disruption of hunting season and impact to sport of recreational hunting	Clearly delineate the construction site from the hunting area	Contractor	Stakeholder Engagement Plan
Cultural heritage			
No systematic prospecting of immovable cultural property has been carried out in the subject area.	"Koridori Srbije doo Beograd" (KS) is obliged to provide all the conditions and enable smooth and constant monitoring of works, during the entire duration of the earthworks, by the archaeological team - archaeological supervision;	Promoter	Chance finds procedure
	Chance finds procedure: If during the performance of the works the contractor encounters at	Contractor	
	archaeological and/or historical sites or archaeological objects or objects from the past, he shall immediately suspend the works and notify the competent Institute for the Protection of Cultural Monuments from Niš without delay, and take measures to the finding does not destroy and not damage and is preserved in place and in the position in which it is discovered, as well as to provide conditions for protective archaeological research;	Institute for the Protection of Cultural Monuments from Niš	
Land acquisition and Resettlement (in	compliance with requirements of EBRD PR 5)		
Loss of Land	Compensation at full replacement cost including transaction costs/ taxes or Replacement land and additional assistance before displacement or imposition of access restrictions. Data on economic and socioeconomic conditions of displaced persons must always be sex disaggregated and include gender analysis specifically related to resettlement impacts and risks	Promoter	SEP Gender-inclusive consultation, information disclosure, and grievance mechanisms RPF RAP Socio-economic survey Asset survey and full inventory of PAPs
Loss of commercial structures	Compensation to establishing commercial activities elsewhere; (ii) lost net income during the period of transition; and (iii) the costs of the transfer and reinstallation of the plant, machinery or other equipment, as	Promoter	SEP RPF

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
	applicable. Provide additional targeted assistance include gender analysis specifically related to resettlement impacts and risks Provide transitional allowance. Data on economic and sociocultural conditions of displaced persons must always be sex disaggregated		RAP
			Socio-economic survey
			gender-inclusive
			consultation, information disclosure, and grievance mechanisms
			RPF
		Promoter	SEP
	Restore the livelihoods and standards of living of displaced persons to pre- project levels, through measures that can be enterprise based, wage-based and/or enterprise based, so as to facilitate sustainable improvements to their		RAP
Loss of livelihood			Socio-economic survey
	socio-economic status		gender-inclusive
			consultation, information disclosure, and grievance mechanisms
			RPF
			RAP
			Socio-economic survey
Loss of crops (annual, perennial)	Compensate for loss at replacement cost	Promoter	gender-inclusive
			consultation, information disclosure, and grievance mechanisms
Damage to properties during construction		Contractor	Insurance Policy
	Any damage inflicted shall be assessed and valuated and compensated at replacement cost or replacement of asset if in cash compensation is not suitable	Supervising Engineer	Grievance mechanism
	Suitable		National judicial mechanism

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
	Construction phase		
Local overview and community suppo	rt (in compliance with requirements of EBRD PR 10)		
Continued Expectation of benefits	Manage expectations and avoid an express assurance on which expectation is to be based.	Contractor	Stakeholder
related to the Project	Implement Transparency	Promoter	Engagement Plan
Legacy issues	Identify in an early stage any potential issues from the past which could amplify any negative impact	Contractor	Stakeholder engagement plan
Loss of support and reputation risk	Adhere to the commitment to the Project. Keep the community a Partner in development	Contractor	Stakeholder Engagement Plan
Loss of support and project risk	Respect all provision of the safeguard tools. Adhere to any obligation set out therein,	Contractor	Stakeholder Engagement Plan
Temporary worker influx and populate	ion change		
	Avoid or reduce influx by tapping into the local pool of workforce.	Contractor	Stakeholder Engagement Plan.
	Screening of capacity of locally available pool of workforce.	Promoter	ESMP
	Assess and manage labour influx.	Local Government	Bidding documents.
Influx of workforce	Incorporate social mitigation measures into the civil works contract (Through the PCC)	Supervision Engineer	Initial screening on whether the project will require influx.
	Ensure supervision engineer's responsibilities regarding oversight of, and reporting on, labour influx and workers' camps (if any)		ToR for procurement of supervision Engineer
Influx of followers, spontaneous job seekers	Contractor to hire workers through recruitment offices and avoid hiring "at the gate" to discourage spontaneous influx of job seekers, Local government to address this additional influx of the "followers" to ensure that no illegal and unsafe settlements develop	Contractor Supervision Engineer	ESMP Employment Plan

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
Pressure on local public services	Liaison with local services to keep track of changes in capacity of local services in respect to anticipated influx. Contingency plans for temporary rise in demand for utilities and Public service provision.	Local Government	ESMP
Impacts on community dynamics existing social conflicts may intensify	Liaison with civil society and local Law enforcement organizations to create integrative action plans; provision of upfront information on potentially impacts on local communities Measures to reduce incentives	Contractor Local Law enforcement	ESMP Awareness raising program amongst workers Preventive measures of increased awareness
Increased risk of communicable diseases	for mixing with local community Implementation of CD and HIV/AIDS education program;	Contractor	ESMP
specially amongst the vulnerable and burden on local health services	Information campaigns on STDs among the workers and local community; Special education program for the Roma population Education about the transmission of diseases; Provision of condoms. (designated as contractor responsibility); Monitoring of local population health data, in particular for Transmissible diseases.	Local health service provider	Health and Safety Plan
Increased pressure on accommodations and rents and induced price hikes affecting the receptor	The in depth workforce assessment to include accommodation assessment	Promoter	Stakeholder Engagement Plan
Increased number of traffic accidents	Awareness training on health and safety during construction and due to increased traffic	Contractor	Community road safety awareness program

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
	Distribute a road safety leaflet	Local government and respective institutions	Traffic management Plan
	Preparation and implementation of a traffic management plan to be approved by supervision engineer;		Road safety leaflets
	Organization of commute from camp to project to reduce traffic;		Community Health and Safety Management Plan
	Road safety training and defensive driving training for staff;		
	Sanctions for reckless driving		
	Local government engagement with contractor and communities to identify accident hotspots and Formulation of solutions.		
Gender based violence/Fraternization	Mandatory and repeated training and awareness raising for the workforce about refraining from unacceptable conduct toward local community members, specifically women informing workers about national laws that make sexual harassment and gender based violence a punishable offence which is prosecuted; introducing a Worker Code of Conduct as part of the employment contract,	Contractor Supervising Engineer	Labour Contracts mandatory clauses Gender based violence prevention program
Social tension and violence	Reinforcing local enforcement capacity to maintain public order after the influx, ensuring that. Complaints about gender-based violence to be taken seriously by local law enforcement, which may be supported by deploying female officers to the project area. Preventive training with workers to demonstrate the presence of government authority in the project area.	Contractor Local Law enforcement Local Government	Violence and tension prevention program
Gender			
Temporary direct and indirect employment opportunities	During assessment of available experts and workers in the local pool identify the positions suitable for women and those equally suitable for both sexes in order to identify possible available workforce. The employment Plan could set a quota of women to be hired under the Project	Contractor Promoter	Stakeholder Engagement Plan Employment Plan Assessment Report
Risk from violence and traffic safety risks from influx of workers	With the local law enforcement agree on increased measures of prevention of violence especially gender based, and conduct road and traffic safety awareness campaigns	Contractor Local law enforcements offices	Stakeholder engagement Plan Traffic Management plans

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
Degradation of local infrastructure	Adhere to the restriction of movement of constriction vehicles and equipment through the local roads. Construct access roads for transportation of material and equipment.	Contractor	Contract for Construction works
	Contractually oblige the Contractor to bring to pre-construction stage and reconstruct any local infrastructure degraded in quality during construction works.	Supervising Engineer for monitoring	
Accessibility of health care	Ensure undisrupted access to health care facilities by responsible management of traffic and disruption of routes only in close consultations with the communities	Contractor Supervising Engineer	Traffic Management Plan Stakeholder engagement Plan ESMP
Accessibility of education for children	Traffic management plan to take into account daily transportation timetable of children especially during the school year, September to December and February to June. This is to be done in coordination with the schools and transport provider	Contractor Supervising Engineer	Traffic Management Plan Stakeholder Engagement Plan ESMP
Walking and cycling path intersection	Consult with women predominantly walking or cycling to attend to daily work and household chorus.	Contractor Supervising Engineer	Traffic Management Plan
Increase of transport costs	Broadly consult with community. Assess the impact of increased costs on livelihood	Local Government MCTI	Policy of subsidies or exemption from tolling
Disruption of routes and schedules of public transport	Provide adequate service routes and schedules of disruption commensurate to community dynamics	Contractor Supervising Engineer	Traffic Management Plan Stakeholder Engagement Plan
Education and skills			
Development of skills	Promote during employment training programs to upgrade existing skills or add a new	Contractor	Employment Plan. Stakeholder Engagement Plan

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
On-the-job training and learning	Capacity enhancement during the construction works.	Contractor	Employment Plan
	Conduct on-going training during construction works.		Labour Contracts
Opportunities for sub-contractors	During assessment of available workforce in the local pool announce the	Contractor	Employment plan
smaller companies to gain references	tentative services, works subject to possible sub-contracting so small companies can cooperate in order to maximize the opportunity	Local Government	Stakeholder Engagement Plan
Temporary employment and on-the-job	The Contractor shall explicitly include Roma community leaders in the	Contractor	Employment Plan
training of vulnerable groups	advertisement effort for job openings and reflect this in his Employment Plan in collaboration with the Roma Association from Merošina. Prior to that Roma community should be included during the in depth assessment of available local	Local Government	Stakeholder Engagement Plan
	pool of workers	Promoter	3 3
Employment and Economy			
Changes in tax income	Timely payment of all taxes,	Contractor	National legislation
	Tax payment awareness campaign	Tax Administration Office	Contract for construction works
	Tax inspections		
Changes in customs, duties and levies	Timely payment of custom duties, and levies by the Contractor.	Contractor	National legislation
income		Tax administration office	
		Custom offices	
Changes in direct employment	Maximize local employment, as defined in the Employment Plan	Contractor	Labour Management Plan
	Adhere to any Labour Management Plan and human resources policies that seek to establish fair, transparent and Equal opportunity employment.	Promoter	Grievance Procedure
	Identify opportunities to increase women's and Roma employment		Employment Plan
			Stakeholder Engagement Plan
Changes in indirect employment	Maximize local indirect employment opportunities by sourcing local services and	Contractor	Local procurement plan
	goods	Promoter	

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
Changes in	Maximize local indirect employment opportunities by sourcing local services and	Contractor	Local Procurement Plan
procurement	goods	Promoter	
Long-term benefits of capacity	Identify and target specific skills gaps.	Contractor	HR Policies
enhancement (on-the-job training opportunities)	Provides employees with hands-on learning.	Supervision Consultant	On the job training Program
	Focus on how well the employee is performing the required job skills in relation to specified performance standards and train to elevate the quality of performance		
Opportunity for local suppliers and sub-	Advance information on tendering opportunities will be provided to local	Contractor	Local Procurement plan
contractors	businesses through trade and industry chambers and local business organisations. Transparent and competitive engagement policies	Industry chamber	SEP
Opportunities for women	The Project will identify female employment	Contractor	Employment Plan
	opportunities where possible and advertise them accordingly digging into the available pool of experts and workforce	Promoter	Contract for construction works
			SEP
Cultural heritage			
No systematic prospecting of immovable cultural property has been carried out in the subject area.	"Koridori Srbije doo Beograd" (KS) is obliged to provide all the conditions and enable smooth and constant monitoring of works, during the entire duration of the earthworks, by the archaeological team - archaeological supervision;	Promoter	Chance finds procedure
	Chance finds procedure: If during the performance of the works the contractor encounters at archaeological and/or historical sites or archaeological objects or objects from the past, he shall immediately suspend the works and notify the competent Institute for the Protection of Cultural Monuments from Niš without delay, and take measures to the finding does not destroy and not damage and is preserved in place and in the position in which it is discovered, as well as to provide conditions for protective archaeological research;	Contractor	
		Institute for the Protection of Cultural Monuments from Niš	
Infrastructure and utilities and public	amenities		
Temporary loss of, or access to, infrastructure or services;	Inform local communities of program and sequence of works.	Contractor	SEP
	Traffic Management plan	Supervising Engineer	Traffic management plan
	Infrastructure and Utilities Management Plan;		Utilities management plan

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
	Emergency Response plan in respect to supply of water and electricity.		Emergency response plan
Disruption of mobile providers or TV network , internet services due to collision with uncharted utilities	Conduct a reconnaissance survey to identify possible location of uncharted utility and liaison with the Service providers to identify the location of uncharted utilities	Contractor	SEP Utilities Management Plan
Change in demand for services restaurants, laundry	Promote equal distribution of increased demand for services thus equally sharing the benefits	Contractor Local Government	SEP Local procurement plan
Change in water supply with possible shortage of water	Undertake water supply monitoring Liaison with water utility company regularly to design response plans and alternative water supply and prevent disruption in supply.	Contractor Supervising Engineer	Water supply management plan Assessment meetings with water companies
	Exchange of information on water supply and monitoring results	Local water company	Monitoring reports
Disruption of electricity supply	Undertake electricity supply monitoring. Liaison with Electricity supply company regularly to design response plans and alternative electricity supply to the most vulnerable users (hospitals) and prevent disruption in supply.	Contractor	SEP
	Exchange of information on electricity supply and monitoring results	Supervision Engineer	ESMP Emergency response Plan
Labour and working conditions	1		Fiaii
Worker's rights, rules and obligations	Comply, at a minimum, with national labour, social security and occupational health and safety laws, with requirements of EBRD PR 2 and the fundamental principles and standards embodied in the ILO conventions	Contractor	Human Resources Management System Employment contracts National laws ILO conventions
Employment standards	comply, at a minimum, with national labour, social security and occupational health and safety laws, and the fundamental principles and standards embodied in the ILO conventions	Contractor	Human Resources Management System Employment Plan

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
		Supervision consultant	National laws
			ILO conventions
Accommodation for workers	On and off site adequate accommodation in line with requirements of EBRD PR 2, ILO Conventions	Contractor	Human resource management plan Employment Plan
			National laws
			ILO conventions
Occupational health and safety	Adequate, timely and regularly updated training and briefings for workers on safety precautions and their responsibility for their safety and the safety of others:	Contractor	Human resource management plan
	require the workers to use the provided safety equipment;		H&S Management Plan
	report and record any accidents, incidents and/or breach of relevant legislation arising from the project;		Employment Plan
			National laws
			ILO conventions
Community health and safety risk			
Potential traffic safety risks from	Prepare a traffic management plan.	Contractor	Stakeholder Engagement Plan
increased traffic and the presence of heavy vehicles on roads, degraded roads by increased heavy vehicles traffic.	Awareness campaigns for the community with emphasis to most vulnerable road users (children, elderly, pedestrian and cyclists).	Supervising Engineer	ESMP
	Reduce speed limit.		Traffic Management Plan
	Programme of stakeholder engagement and consultation to educate local communities of the risks of trespassing onto sites, the meaning of signs, the dangers of playing on or near equipment or entering fenced areas.		Site Specific Implementation Plan

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
	Adequate signs to be put up around work fronts and construction sites advising people of the risks associated with trespassing. All signs should be in Serbian or in diagram form to ensure those with low levels of literacy understand the signs.		Community Health and Safety Management Plan
Site trespass and injury	Fence construction site with visible not easily removable fence.	Contractor	Stakeholder Engagement Plan
	Clear demarcation of the construction site. Place visible and understandable signs to site limits.	Supervision Engineer	Information leaflets
	Raise awareness of community and workers.		Awareness presentations
	Educate workers not to allow even incidental or on-off trespasses		Community Health and Safety Management Plan
	Place warning signs of prohibited trespassing and legal remedies in opposite conduct.		
	Awareness campaigns for the Community		
Potential increased transmission risks of communicable diseases and temporary	Implementation of CD and HIV/AIDS education program;	Contractor	Stakeholder Engagement Plan
pressure on local health and sanitation infrastructure	Information campaigns on STDs among the workers and local community; Special education program for the Roma population and women.	Supervising Engineer	Education programs and learning material
	Education about the transmission of diseases;	Health Facilities	
	Provision of condoms. designated as contractor responsibility;	Roma association's	
	Monitoring of local population health data, in particular for Transmissible diseases.		Community Health and Safety Management Plan
impacts from self-created communication routes by community in case of temporary disturbed	Keep alternative routes at all times. Fence site boundaries and present route of alternatives,	Contractor	Traffic Management Plan ESMP
communication routes			Stakeholder Engagement Plan
			Community Health and Safety Management Plan

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
Impacts to community security, particularly covering interaction between security forces retained security to	Inform community about the presence of security forces safeguarding the equipment and construction site of Contractor.	Contractor	Security personnel code of Conduct
safeguard the operations	Let the community understand their role and responsibility.		Health and safety Plan
	Liaison with the Local law enforcement to agree on regular meetings, communication channels and to agree on emergency response in case needed.		ESMP
	Train the employees of the Security personnel to adhere to protocols and code of conduct at all times with emphasis to carrying and use of weapon if any		Community Health and Safety Management Plan
Health Services			
Increased number of vehicles in the area and traffic might lead to a higher number of road accidents and injuries.	Maintain current capacity of medical staff	Health care centres	Emergency response plan
Pressure due to influx of workers	Maintain current capacity of medical staff and equipment	Health care centres	Medical centre policy
Access to Education		1	
Disruption of weekdays communication routes for school and pre-school attendance in remote school facilities	Prepare a traffic management plan. Exchange with school representatives timetable of all transportation routes for both Municipalities. To the extent feasible harmonize disruption compete stand still of traffic with	Contractor	Stakeholder Engagement Plan Traffic Management Plan
Agriculture, beekeeping and farming	school timetable	<u>l</u>	1
Disturbance to beekeeping	Agreements with beekeepers on where to relocate beehives if necessary. Assistance with the transportation and relocation of beehives if needed.		Stakeholder Engagement Plan RPF
	Implement RPF and RAP and compensate any loss		RAP
			Socio-economic survey and individual household assessment

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
Disturbance to animal grazing	Contractual clauses to ensure that contractors consult with local farmers to establish the appropriate number and location of animal Crossings.		SEP
Impact on quality of fruit production	Implement RPF and RAP and compensate any loss socio-economic baseline assessment on people affected by the project, including impacts related to land acquisition and restrictions on land use		RPF
	Detailed inventory of assets		RAP
	Valuation and compensation at replacement cost.		Socio-economic survey and individual household assessment
Loss of agricultural land	Implement RPF and RAP and compensate any loss		RPF
	Detailed inventory of assets		RAP
	Valuation and compensation at replacement cost		Socio-economic survey and individual household assessment
	socio-economic baseline assessment on people affected by the project, including impacts related to land acquisition and restrictions on land use during preparation of RAP		
Loss of fruit bearing trees and vineyards	Implement RPF and RAP and compensate any loss		RPF
	Detailed inventory of assets		RAP
	Valuation and compensation at replacement cost		Socio-economic survey and individual household assessment
	Socio-economic baseline assessment on people affected by the project, including impacts related to land acquisition and restrictions on land use during preparation of RAP		
Loss of income due to loss of land, fruit bearing trees and vineyards	Implement RPF and RAP and compensate any loss		RPF
	Detailed inventory of assets		RAP

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
	Valuation and compensation at replacement cost socio-economic baseline assessment on people affected by the project, including impacts related to land acquisition and restrictions on land use during preparation of RAP		Socio economic survey and individual household assessment
Land Acquisition and involuntary rese	ttlement (in compliance with requirements of EBRD PR 5)	<u> </u>	
Unforeseeable circumstances resulting in additional loss of land and assets attached to it and resettlement.	Implement RPF and RAP and compensate any loss socio-economic baseline assessment on people affected by the project, including impacts related to land acquisition and restrictions on land use	Promoter	PRF
	Detailed inventory of assets		RAP
	Valuation and compensation at replacement cost.		Socio-economic survey and individual household assessment
Vulnerability		•	•
Disruption of free meal delivering routes	Familiarize with the daily schedule of free meals in liaison with the Red Cross	Contractor	Traffic management plan SEP
Disruption of transport of haemodialysis patients	Familiarize with the daily schedule of free meals in liaison with the medical facilities	Contractor	Traffic management plan SEP
Livelihood		1	
Loss of livelihood	Ensure livelihood restoration	Promoter	RPF
			RAP
			Individual socio- economic surveys and livelihood restoration support
Operation phase			
Employment and Economy			
Changes in income from tolling	Introduce tolling and e-tolling as soon as practicable		National laws and by- laws on tolling

Impact	Mitigation/Enhancement Measures	Responsibility	Management Plans, Policies and Procedures
Changes in direct employment	Maximize local employment, establish fair, transparent opportunities and Identify opportunities to increase women's employment		Recruitment Policy and Procedure of National Highway operator
Income for taxes from development of new facilities along the Highway	Regular audit of tax payments		National laws
Tourism			
Changes from income and economic benefits from tourism	Promote tourist destinations		Local tourist development strategy
Improved Access to tourist sites in the area	Maintain new infrastructure		Maintenance pan of Highway operator

Social Monitoring Matrix

No.	Indicators	Baseline Survey	Repeated Survey
1	Average Family Size		
2	Average monthly income per household Adjusted for inflation		
3	Average monthly income per household member Adjusted for inflation		
4	Proportion of families without earning members		
5	Proportion of households below poverty line		
6	Proportion of households rating their economic status as: 'above average' 'average' 'modest' 'poor'		
7	Household assets		
8	Changes in economic status of households in last five years to: Better Worse		
9	Pattern of spending compensation received		

No.	Indicators	Baseline Survey	Repeated Survey
10	Changing in employment status of household members: Got employment Lost employment		
11	Households with members employed on the Project		

Monitoring of grievance management

The monitoring of Grievance management will be through a set of indicators ensuring effective and timely resolution of grievance. The indicators will be measures within the reporting periods. The indicators are listed below:

- Number of Grievances received;
- Number (%) of Grievances acknowledged within the timeframe;
- Number (%) of Grievances unilaterally decided;
- Number (%) of Grievances closed within the specified time-frame;
- Number (%) of grievance related to a same or repeated event and /or location to identify areas most affected by potentially negative impacts of the project.
- Number (%) of grievance received comparing to the previous reporting period.
- Number (%) of complainant satisfied with the process (timely, fair)
- Number (%) of complainant satisfied with the outcome.

Output indicators for monitoring of the process are as follows:

- Number of public discussions and consultations on RAPs;
- Number of completed expropriation studies;
- Percentage of purchased land in relation to needed land acquired for the purposes of the Project, including total expropriated land area, and land area per person;
- Number of completed compensation payments;
- Number of replacement properties given and houses provided;
- Number of PAPs affected by RS exercising its right of ownership on buildings and land;
- Number and amount of payment for loss of income;
- Number and type of assistances provided to vulnerable groups of PAPs; and
- Number and type of grievances, including legal Actions arising from expropriation (submitted cases, resolved cases, time needed for their resolution).

1

Appendix 2 Location conditions relevant for the development of the ESMP

- 1. Conditions of the Republic Water Directorate (Water Conditions)
- 2. The decision of the Institute for Nature Conservation of Serbia
- 3. "Serbian Forests"
- 4. The decision of the Institute for Protection of Cultural Monuments Niš



Република Србија
МИНИСТАРСТВО ПОЉОПРИВРЕДЕ,
ШУМАРСТВА И ВОДОПРИВРЕДЕ
Републичка дирекција за воде
Број: 325-05-00392/2020-07
30.04.2020. године
Београд

На основу чл. 113, 115. и 117. Закона о водама ("Сл. гласник РС" бр. 30/2010), Закона о изменама Закона о водама ("Сл. гласник РС" бр. 93/2012, 101/2016, 95/2018), члана 30. став 2. Закона о државној управи ("Сл. гласник РС" бр. 93/2014, 101/2016, 95/2018), члана 5. Закона о министарствима ("Сл. гласник РС" бр. 44/2014, 14/2015, 54/2015, 96/2015, 62/2017), Закона о планирању и изградњи ("Сл.ужбени гласник РС" бр. 72/2009, 81/2009-исправка, 24/2011, 121/2012, 42/2013–УС, 50/2013-УС, 98/2013-УС, 132/2014, 145/2014, 85/2018), Правилника о поступку спровођења обједињене процедуре електронским путем ("Сл. гласник РС" бр. 113/2015) и Упутства о начину поступања надлежних органа и ималаца јавних овлашћења који спроводе обједињену процедуру у погледу водних аката у поступцима остваривања права на градњу (број: 110-00-163/2015-07, од 19.05.2015. године), решавајући по захтеву подносиоца захтева, Министарства грађевинарства, саобраћаја и инфраструктуре у име "Коридори Србије" д.о.о., Београд, Министарство пољопривреде, пумарства и водопривреде, Републичка дирекција за воде, вршилац дужности директора Наташа Милић, по Решењу Владе 24 број: 119-8512/2019 од 29.08.2019. године, издаје

водне услове

- 1. Одређују се водни услови у поступку припреме техничке документације за изградњу аутопута Е-80 у Србији (SEETO Ruta 7): од Ниша (Мерошина) до Плочника (Белољин) І фаза изградње, на катастарским парцелама које припадају КО Арбанасце, КО Балајнац, КО Баличевац, КО Брест, КО Југ Богдановац, КО Лепаја, КО Мерошина, КО Градиште општина Мерошина и катастарским парцелама које припадају КО Прокупље Град, КО Прокупље, КО Прекадин, КО Поточић, КО Појате, КО Ново Село, КО Нова Божурна, КО Мала Плана, КО Концељ, КО Губетин, КО Дреновац, КО Доња Стражава, КО Доња Топоница, КО Ђуровац, КО Ћуковац, КО Бресничић, КО Беле Воде општина Прокупље.
- 2. Овај акт је уписан у Уписник водних услова за водно подручје "Морава", под редним бр.225. од 30.04.2020. године.
- 3. Водним условима се одређују се технички и други захтеви који морају да се испуне при пројектовању, извођењу радова и објеката, који могу трајно, повремено и привремено утицати на промене у водном режиму, односно утрозити циљеве животне средине, а нарочито у водном земљишту водотока са којим се саобраћајни објекат укршта, додирује или делом пролазе, и то:
- 3.1.Израдити техничку документацију, на основу претходних радова, у свему према важећем закону и прописима из водопривреде и осталим законима, прописима, мишљењима и нормативима за ову врсту објеката;
- 3.2. Техничку документацију урадити у складу са урбанистичко-планском документацијом;
- 3.3.Инвеститор/корисник је у обавези да реши имовинско правне односе, у зони изградње и коришћења објеката у водном земљишту, са ЈВП"Србијаводе";
- 3.4. При изради пројектне документације водити рачуна о постојећим и планираним водним објектима и природном кориту водотока на начин који ће обезбедити заштиту њихове стабилности и заштиту режима вода;
- 3.5.Израду техничке документације усагласити са техничком документацијом према којој су изграђени заштитни водни објекти или извршено уређење појединих водотока као и са

планском и пројектном докуметнацијом којом су предвиђени ови објекти и радови на нерегулисаним и неуређеним водотоцима;

- 3.6. Да се техничком документацијом утврде стални и повремени водотокови са којима се траса пута укршта или непосрегно паралелно води (изградња у водном земљишту) и њихове карактеристике (меродавни протицаји, пронос наноса, сливне површине, итд.), сви могући неповољни утицаји објеката на режим вода, проноса наноса и леда, као и утицаји режима на објекте, итд. и дају одговарајућа техничка решњења у складу са утврђеном категоријом заштите објеката и у складу са заштитом квалитета подземних и површинских вода, заштите стабилности и функционалности водних објеката и спровођењем заштите од штетног дејства вода у складу са прописима из водопривреде;
- 3.7. Хидролошке податке (Карактеристичне рачунске вредности у природном режиму, које је дао РХМЗ) преузети из издатих водних услова број: 325-05-00177/2018-07 од 21.03.2018.године, 325-05-00179/2018-07 од 22.03.2018.године, 325-05-00192/2018-07 од 15.03.2018.године, 325-05-00193/2018-07 од 19.03.2018.године и 325-05-00194/2018-07 од 20.03.2018.године;
- 3.8. Спровести одговарајуће хидрауличке прорачуне као и димензионисање објекта на основу хидролошких података РХМЗ о карактеристичним рачунским вредностима;
- 3.9. Приказати (рачунски и графички) постојећи режим вода водотока као и пројектовани режим који је последица изградње објекта и предвићених радова;
- 3.10. Димензионисање отвора и распона мостова извршити на основу хидрауличког прорачуна за меродавне вредности карактеристичних протицаја предметних водотока, са графичким приказима у подужном и попречном пресеку, при чему отвори треба да пропусте меродавне протицаје без неповољног дејства успора уз обезбеђење стабилности моста, обала и дна водотока. Надвишења доње ивице конструкције мостова предвидети са потребним зазором (рачунатим на на основу протицаја меродавне рачунске велике воде и/или профилске брзине при меродавној великој рачунској води). У обзир узети све могуће неповољне карактеристике и коинциденције (велике воде, ветар, таласи, ерозивни процеси, ледоход и ледостај, итд.);
- 3.11. Да се предвиде мостовски стубови и ослонци (у кориту водотока или изван речног корита и изван локације водних објеката, а нарочито насипа) који ће стварати најмање отпоре отицању вода, односно, који ће бити хидраулички обликовани (кружни, елипсасти, и сл.) и паралелни струјницама речног тока, тако да не изазивају дубинску ерозију (дуж речног корита), локалну ерозију (око стубова моста) и бочну ерозију (на обалама) а која би могла да угрози стабилност моста и објеката, земљиште, и др.

Генерална је препорука да се мостовски прелаз изведе са што мање стубова у кориту, тако да осовина моста буде управна на речни ток, а осовине стубова моста постављене у правцу струјница;

- 3.12. У случају да се јавља дубинска и бочна ерозија у зони обала, мостовских стубова и ослонаца, предвидети техничка решења којима ће се осигурати ослонци и стубови и стабилизовати речно дно узводно и низводно од моста и дуж речног корита односно, докле се осећа негативан хидраулички утицај мостовског сужења на режим отицања вода, наноса и леда о трошку инвеститора моста;
 - 3.13.За регулационе радове за аутопут Е-80, предлаже се:

Извођење неопходних регулационих радова ради стабилизације и заштите рушевних обала у близини аутопута. Пожељно је да се постојеће и нове грађевине међусобно повежу, а не сме се дозволити да се евенуално постојеће грађевине уклањају или оштете током извођења радова на аутопуту и другим објектима у његовом коридору. Уколико је то неопходно, објекат се након завршетка радова мора вратити у првобитно стање.

На потезима где је траса аутопута вођена паралелно са реком обавезно је да се изведе облога ка реци, ради заштите трупа изведеног од насутог материјала. Такође, на тим потезима је потребно извршити регулације река у дужем потезу у складу са хидрауличким и другим прорачунима;

- 3.14.Изградњом пута се не сме онемогући отицање унутрашњих или узводних вода и за њихово одвођење предвидети одговарајуће мере и објекте;
- 3.15. Да се на местима укрштања трасе државног пута и моста са реком техничка решења изградње предметних саобраћајних објеката усагласе са плановима за одбрану од поплава и леда, одржавањем водних објеката и предвиди несметан прилаз службама и механизацији за одбрану од поплава заштитним водним објектима. Пролаз механизације испод

конструкције моста , тј. висина између доње ивице конструкције моста и круне насипа треба да износи минмум $3.0~\mathrm{m}$;

- 3.16. Пројектном документацијом обухватити одвођење атмосферских вода са коловозних површина. У случају укључења истих у предметне водотоке, директно или индиректно, или испуштања на околни терен, нарочито где су високи нивои подземних вода, извршити анализу могућих негативних утицаја (услед изливања уља, лаких течности, опасних материја итд.) и предвидети одговарајућа техничка решења и мере којима ће се заштитити квалитет подземних вода и прописани квалитет водотока, посебно у зонама заштите изворишта;
- 3.17.Одговарајуће прорачуне за одвођење атмосферских вода извршити на основу карактеристичних рачунских вредности за интензитете падавина карактеристичних вероватноћа појаве за предметну деоницу;
- 3.18.Извршити потребне анализе у погледу евентуалног избора позајмишта материјала, утицаја на подземне воде и начин затварања и рекултивације позајмишта након изградње објеката. Избор локације позајмишта, динамика и начин експлоатације материјала мора бити такав да не утиче негативно на квалитет и квантитет подземних и површинских вода. Потребно је да се активности у вези планирања вађења речних наноса спроведу складу са Планом вађења речних наноса на територији Републике Србије и уз сарадњу са ЈВП "Србијаводе". Уколико се планира коришћење речних наноса из корита или са обала водотока потребно је исходовати посебне водне услове, урадити техничку документацију и на исту прибавити водну сагласност;
- 3.19. Динамика и технологија извођења радова на изградњи објеката и коришћење објеката не сме да угрози прописани квалитет вода свих водотока, не сме да онемогући одбрану од поплава и ерозија и мора да омогући несметани режим вода и наноса;
- 3.20.Пројектном документацијом предвидети одговарајуће објекте, начин извођења радова и дефинисати услове одржавања након изградње, који ће спречити уношење чврстих и течних материја које могу загадити водотоке, односно, изазвати замуљивање или таложење
- 3.20.На месту евентуалног клизишта у склопу геотехничких истражних радова дефинисати режим подземних вода и дати решење за санацију терена;
- 3.21 Техничку документацију за извођење путарских радова и објеката, манипулацију механизације и депоновање материјала предвидети тако да се не угрозе, оштете цевоводи јавног система за снабдевање водом за пиће, да се не угрозе евентуалне зоне заштите изворишта, нити предвиде испуштања загађене воде у подземне воде и површинске воде;
- 3.23. Техничком документацијом предвидети технологију изградње моста којом се не ремети режим течења. Такође неопходно предвидети да се не постављају скеле и друге препреке у водотоку, као ни депоновање материјала у кориту водотока;
- 3.24. Техничком документацијом предвидети локације за депоновање материјала из ископа тунела, и исте лоцирати ван речних корита за велику воду водотока;
- 3.25. За све друге активности, мора се предвидети адекватно техничко решење у циљу спречавања ремећења режима вода;
- 3.26. Да се, по завршетку израде техничке документације обрати органу надлежном за водопривреду, са захтевом за издавање водне сагласности, а после изградње са захтевом за издавање водне дозволе у складу са прописима.

Образложење

Министарство грађевинарства, саобраћаја и инфраструктуре у име "Коридори Србије" д.о.о., Београд, је поднело овом министарству захтев, у поступку припреме техничке документације за изградњу аутопута Е-80 у Србији (SEETO Ruta 7): од Ниша (Мерошина) до Плочника (Белољин) — І фаза изградње, на катастарским парцелама које припадају КО Арбанасце, КО Балајнац, КО Баличевац, КО Брест, КО Југ Богдановац, КО Лепаја, КО Мерошина, КО Градиште — општина Мерошина и катастарским парцелама које припадају КО Прокупље Град, КО Прокупље, КО Прекадин, КО Поточић, КО Појате, КО Ново Село, КО Нова Божурна, КО Мала Плана, КО Концељ, КО Губетин, КО Дреновац, КО Доња Стражава, КО Доња Топоница, КО Ђуровац, КО Ђуковац, КО Бресничић, КО Беле Воде — општина Прокупље.

Уз захтев и допуне захтева је достављено:

- Мишљење Републичког хидрометеоролошког завода бр. 922-1-81/2020 од 21. 04.2020.године;
- Мишљење Агенције за заштиту животне средине, број 325-05-00001/130/2020-02 од 16.04.2020.године;
- Мишљење ЈВП Србијаводе, ВПЦ Морава, број 3369/1 од 21.04.2020.године;
- Информација о локацији број 350-02-000731/2020-14 од 10.04.2020.године, издата од Министарства грађевинарства, саобраћаја и инфраструктуре;
- Идејно решење за изградњу аутопута Е-80 од Косова и Метохије административни прелаз Мердаре до Ниша, од Ниша (Мерошина) до Плочника (Белољин) І фаза изградње, на катастарским парцелама које припадају КО Арбанасце, КО Балајнац, КО Баличевац, КО Брест, КО Југ Богдановац, КО Лепаја, КО Мерошина, КО Градиште општина Мерошина и катастарским парцелама које припадају КО Прокупље Град, КО Прокупље, КО Прекадин, КО Поточић, КО Појате, КО Ново Село, КО Нова Божурна, КО Мала Плана, КО Концељ, КО Губетин, КО Дреновац, КО Доња Стражава, КО Доња Топоница, КО Ђуровац, КО Ћуковац, КО Бресничић, КО Беле Воде општина Прокупље. урађено од СЕЅТRА d.o.o., СОWI –IDF6 Копzогсіјшпа, Београд, 2020.године;
- Хидролошка студија од 2019.године;
- Копије планова издате од Служби за катастар непокретности Мерошине и Прокупља;
- Водни услови бројеви: 325-05-00177/2018-07 од 21.03.2018.године, 325-05-00179/2018-07 од 22.03.2018.године, 325-05-00192/2018-07 од 15.03.2018.године, 325-05-00193/2018-07 од 19.03.2018.године и 325-05-00194/2018-07 од 20.03.2018.године.

На основу чл. 117. ст. 1. тач. 7. Закона о водама, објекат је сврстан у групу објеката: државни пут I и II реда, и мостове на њима, метро, аеродром. На основу чл. 43. Закона о водама, утврђене водне делатности су уређење водотока и заштита од штетног дејства вода и заштита вода од загађивања. Објекат се налази у подсливу реке Јужне Мораве, водно подручје Морава, сагласно чл. 27. Закона о водама и Правилнику о одређивању граница подсловова ("Службени гласник РС", бр. 54/2011).

Река Топлица , према Одлуци о утврђивању Пописа вода I реда, је сврстана у воде I реда ("Сл. гласник РС" бр.83/10). На основу Уредбе о категоризацији водотока река дата је категорија реке Топлице II категорија. Максималне количине опасних материја у водама су дате Правилником о опасним материјама у водама ("Сл.гласник СРС" бр.31/82) и не смеју се прекорачити. а максималне количине опасних материја у водама су дате Правилником о опасним материјама у водама ("Сл.гласник СРС" бр.31/82) и не смеју се прекорачити. Загађујуће супстанце које се испуштају отпадним водама у реципијент, морају задовољити критеријуме Уредбе о граничним вредностима емисије загађујућих материја у воде и роковима за њихово достизање ("Сл. гласник РС" бр.67/11) и измена Уредбе ("Сл.гласник РС" 48/2012). Уредбом о граничним вредностима загађујућих материја у површинским и подземним водама и седименту и роковима за њихово достизање ("Сл. гласник РС" бр.50/2012) утврђене су граничне вредности загађујућих супстанци у површинским и подземним водама и седименту, као и рокови за њихово достизање. Мерење количина и испитивање отпадних вода урадити сходно Правилнику о начину и условима за мерење количине и испитивање отпадних вода урадити сходно Правилнику о начину и условима за мерење количине и испитивање отпадних вода и садржини извештаја о извршеним мерењима ("Сл. гласник РС" бр.33/2016).

Предмет овог захтева су регулације речних токова које се укрштају или иду паралелно са трасом изградњу аутопута E-80 од Косова и Метохије – административни прелаз Мердаре (SEETO Ruta 7): од Ниша (Меропшна) до Плочника (Белољин) – I фаза изградње.

Слив Топлице, у коме се налази разматрани коридор аутопута, има развијену хидрографску мрежу. Слив је у горњем и средњем току купиран има мноштво бујичних токова, што Топлицу у горњем и средњем току чини бујичном реком.

Идејним решењем регулације водотокова који су у колизији са трасом будуће саобраћајнице биће урађене у свом коначном облику, без изградње по фазама.

На свим локацијама где се траса пројектованог аутопута укршта под неповољним углом или преклапа са трасом природног корита предвиђени су регулациони радови. Техничка решења су следила принцип одржања постојећег режима отицаја уз заштиту аутопута и припадајућих објеката од утицаја великих вода. За овај ранг саобраћајнице меродавни протицаји за димензионисање објеката и заштиту трупа аутопута су повратног периода 100 г. Контролни протицај је повратног периода 100 година.

Већина пројектованих мостова и пропуста на местима укрштања са трасом аутопута има веће димензије од неопходних (на основу ранијих препорука ЛТ "Србијаводе") јер имају вишеструку намену.

Пројектоване регулације се на узводном и низводном крају прелазним деоницама уклапају у природно стање са циљем да се минимално ремети постојећи режим отицаја.

Треба поменути да су предвиђене регулације: Александровачки поток од km 2+718.0 – km 2+753.4 37, дужине 37 m; Александровачки поток km 2+998.0, дужине 96.5 m; Крајковачка река km 8+105, дужине 75,30 m; Лепајски поток km 8+514, дужине 279.6 m; Јутбогдановачка река km 14+062 , дужине 113,4 m; Суви поток km 14+235, дужине 241.30 m, Цигански поток km 17+785.4, дужине 185.1 m; Стржавска река km 18+433, дужине 130,0 m; Трнавска река km 22+679.4, дужине 134,7 m; Топлица km 22+736- km 23+794, дужине 1206,0 m; Планска река km km 26+392.4- km 26+508.6, дужине 117,9 m; Планска река km 26+600.4- km 26+802.0, дужине 153,4 m; Планска река km 26+922- km 27+151, дужине 265,0 m; Планска река km 27+671, дужине 408,0 m; Здравињска река km 28+977.7, дужине 502,0 m; Здравињска река km 30+108, дужине 114.6 m; Здравињска река km 31+790.6, дужине 79,8 m.

Идејним решењем је предвиђена изградња затвореног система одводњавања атмосферских вода са коловозних површина ауто-пута, денивелисаних раскрсница, одморишта и наплатних места.

Атмосферске воде које доспеју на саобраћајницу се гравитационо одводе до ригола на рубу саобраћајнице. Вода из ригола се прихвата сливницима и даље гравитационо спроводи затвореним цевним системом до сепаратора лаких нафтних деривата и излива у реципијенте.

На отвореним деловима трасе, предвиђени су сливници у виду армирано-бетонских шахт-сливника, опремљених поклопцем у виду решетке. Усвојене су ПЕ коруговане канализационе цеви пречника од Ø300, до Ø1200.

На мостовима је предвиђена уградња мостовских сливника који су вертикалном цеви спојени са сабирном хоризонталном цеви моста.

Тип решења одводњавања на мостовима је одређен дужином моста. Код краћих мостова (до 25 m) хоризонталне сабирне цеви пролазе поред обалне стубова моста и везују се за систем одводњавања отворене трасе. Код дужих мостова постоји одвојени систем одводњавања, код кога се хоризонтална сабирна цев повезује на вертикалну одводну цев уз стуб моста. Вода се затим спроводи до шахта за ревизију у подножју стуба и даље до сепаратора и реципијента. Усвојене су цеви за одводњавање мостова од центрифугалног полиестера мин пречника ДН300, НП1 бар.

Одводњавање отицаја са саобраћајних површина у тунелима предвиђени су префабриковани линијски канали са бочним уливом.

Предвиђено је да сепаратори прихвате и пречисте први талас загађења, а остатак протицаја се може пропустити кроз сепараторе без посебног третмана.

На предметној деоници ауто-пута, предвиђена је 30 изливних места.

У погледу концепта одводњавања исти обухвата прикупљање и контролисано спровођење атмосферских вода са коловоза аутопута до сепаратора минералних уља, и након третмана њихово испуштање у најближи водоток. Усвојено одводњавање треба да буде у складу са уредбом о дозвољеним емисијама и третману отпадних материја са аутопутева, паркинга и сервиса за одржавање моторних возила (EU standard EN 858-1).

Мостови и пропусти треба да имају довољан распон и доњу ивицу конструкције на котама који омогућавају несметан проток великих вода, одговарајуће темеље осигуране од опште и локалне ерозије, како ради сигурности самог моста тако и ради сигурности узводних и низводних објеката у водном земљишту, при чему извођењем радова и предметних објеката, не смеју бити повређене одредбе чл. 133. Закона о водама, а заштитне мере у водном земљишту се морају извести о трошку инвеститора.

Препоручена надвишења за мостовске конструкције су:

Іротицај Q(m3/s)	минимално надвишење H(m)
До 10	0,60
10 до 50	0,70
50 до 100	0,80
100 до 200	0,90
200 до 300	1,10
300 до 500	1,20
500 πο 1 000	1 30

1 000 до 2 000 1,40 преко 2 000 1,50

У складу са подацима и предлозима достављеним у мишљењима ЈВП "Србијаводе", РХМ Завода Србије, који су прихваћени и уграђени у диспозитив овог акта потребно је - димензионисати објекте предметног пута и и објеката на њему складу са одредбама Закона о просторном плану Србије ("Сл. гласник РС", 13/96) и Уредбе о утврђивању Водопривредне основе Србије ("Сл. гласник РС", бр. 11/2002), преме датим протицајима РХМЗ и према условима утврђеним Општим и Оперативним плановима одбране од поплава на посматраном подручју, и др.

У складу са већ поменутим предлозима, потребно је усвојити решења која ће омогућити пројектовани режим вода у свим поменутим објектима (мостови, пропусти, регулације река и др.) без ремећења режима вода а такође, и без могућих штета по становништво, животиње, имовину и животну средину.

На основу потребних и одговарајућих подлога (претходни радови) потребно је урадити техничку документацију, на нивоу пројекта, према одредбама Закона о водама, Закона о планирању и изградњи и важећим прописима и нормативима за ову врсту објеката и овим водним условима, у циљу одржавања и унапређења водног режима, у складу са условима 3.1.-3.3. диспозитива, уз обавезне прилоге:

-доказ да је предузеће, радња или друго правно лице уписано у регистар за израду техничке документације са приложеним важећим и одговарајућим лиценцама одговорних пројектаната,

-техничка решења за све објекте, радове и мере, хидрауличке прорачуне са потребним прорачунима проноса наноса, прорачуни стабилности, итд;

-технички опис, ситуациије, постојећи режим и пројектовани режим, подужни и попречни профили свих објеката мостова, пропуста, итд.

Условом бр.3.4. диспозитива дата је обавеза инвеститору да приликом израде техничке документације усагласи пројектна решења са техничком документацијом на основу које је извршено уређење појединих водотока (уколико су ови радови изведени), или се, на основу планске и пројектне документације, планира изградња заштитних водних објеката, регулациони радови или уређење водотока.

Условима 3.5. — 3.24 диспозитива, обухваћени су услови на основу одредби Закона о водама, од чл. 4. - чл. 10. у вези водног добра, чл. 13. – чл. 19. у вези водних објеката, чл. 44. – чл. 62. у вези уређења водотока и заштите од штетног дејства вода, ерозија и бујица, чл. 77. и чл. 89. – чл. 91. у вези уређења и коришћења вода, чл. 92. – чл. 101 у вези заштите вода од загађивања и чл. 133. у вези забрана и ограничења корисника водног земљишта.

По завршетку израде техничке документације и извршене техничке контроле, потребно је поднети овом министарству захтев за издавање водне сагласности на техничку документацију, а после изградње захтев за издавање водне дозволе, у скалду са прописима из водопривреде, те је дат услов 3.26. диспозитива.

На основу Правилника о садржини, начину вођења и обрасцу водне књиге ("Сл. гласник РС", бр. 86/2010), овај акт је уведен у Уписник водних услова за водно подручје Морава, условом број 2. Диспозитива.

Административна такса не плаћа се за решење по захтеву за издавање водних аката у складу са одредбама чл.18.тч.2. Закона о изменама и допунама Закона о републичким административним таксама ("Сл.гласник РС", бр.43/2003 и 50/2011). Придози:

- -Мишљење Републичког хидрометеоролошког завода
- -Мишљење Агенције за заштиту животне средине
- -Мишљење ЈВП Србијаводе, ВПЦ Морава

ДОСТАВИТИ:

- -МГСИ, Београд
- -ЈВП"Србијаводе"ВПЦ"Морава" ,Ниш
- Водни инспектор
- -Водна књига
- -Архива

В.Д. ДИРЕКТОРА Nataša Milić Digitally signed by Nataša Milić 785519042-240496271 785519042-2404962715398 Date: 2020.0430 10:23:38 +0200 Наташа Милић, Динл. инж. шум.

РЕПУБЛИКА СРБИЈА ЗАВОД ЗА ЗАШТИТУ ПРИРОДЕ СРБИЈЕ

НОВИ БЕОГРАД, Др Ивана Рибара бр. 91 Тел: +381 11/2093-802; 2093-803;

Факс: +381 11/2093-867

Завод за заштиту природе Србије, Београд, Ул. др Ивана Рибара бр. 91, на основу чл. 9. Закона о заштити природе ("Службени гласник РС", бр. 36/2009, 88/2010, 91/2010 — исправка, 14/2016 и 95/2018-други закон), а у вези са чл. 86. Закона о планирању и изградњи ("Сл. гласник РС", бр. 72/2009, 81/2009, 64/2010 - Одлука УС РС, 24/2011, 121/2012, 42/2013 - Одлука УС РС, 50/2013 - Одлука УС РС, 98/2013 - Одлука УС РС, 132/2014, 145/2014, 83/2018, 31/2019, 37/2019 — др. Закон и 9/2020), Правилником о поступку спровођења обједињене процедуре електронским путем ("Службени гласник РС", бр. 68/2019), Уредбом о локацијским условима ("Службени гласник РС", бр. 35/2015, 114/2015 и 117/2017) и чланом 136. Закона о општем управном поступку ("Службени гласник РС", бр. 18/2016 и 95/2018 - аутентично тумачење), поступајући по захтеву ROP-MSGI-4058-LOCH-2-HPAP-5/2020, од 08.04.2020. године Министарства грађевинарства, саобраћаја и инфраструктуре, Ул. Немањина 22-26, Београд, за издавање услова заштите природе за потребе израде локацијских услова за изградњу Аутопута Е-80 у Србији (СЕЕТО Рута 7) од Ниша (Меропина) до Плочника (Белољин), дана 28.05.2020. године под 03 бр. 020-955/2, доноси

РЕШЕЊЕ

- 1. На катастарским парцелама у К.О. Балајнац, К.О. Брест, К.О. Градиште, К.О. Мерошина, К.О. Арбанасце, К.О. Баличевац, К.О. Југ Богдановац, К.О. Лепаја, К.О. Мерошина Општина Мерошина; К.О. Бела Вода, К.О. Губетин, К.О. Доња Стражава, К.О. Ђуровац, К.О. Нова Божурна, К.О. Ново Село, К.О. Појате, К.О. Прокупље град, К.О. Прокупље, К.О. Ђуковац, К.О. Бресничић, К.О. Дреновац, К.О. Доња Топоница, К.О. Концељ, К.О. Мала Плана, К.О. Поточић, К.О. Прекадин Општина Прокупље, на којој је предвиђена изградња Аутопута Е-80 у Србији (СЕЕТО Рута 7) од Ниша (Мерошина) до Плочника (Белољин), налази се део еколошки значајног подручја еколошке мреже Србије Лалиначка слатина (редни број 78.). Сходно томе, издају се следећи услови заштите природе:
 - У складу са Законом о процени утицаја на животну средину ("Службени гласник РС", бр. 135/2004 и 36/2009), а с обзиром да се планирани објекат налази на Листи 1 Уредбе о утврђивању Листе пројеката за које је обавезна процена утицаја и Листе пројеката за које се може захтевати процена утицаја на животну средину (тачка 7. подтачка 2) ("Службени гласник РС", бр. 114/2008), инвеститор је обавезан да у даљем поступку израде планске документације изградње државног пута, поднесе захтев Министарству заштите животне средине у вези потребе израде Студије о процени утицаја изградње и експлоатације аутопута на животну средину;
 - Строго се придржавати предвиђене трасе и коридора око ње, како обимни земљани радови и употреба машина не би оставили последице на простор ван граница обухвата Пројекта;
 - 3) Радове на изградњи аутопута Е-80 у оквиру планиране деонице је потребно изводити на катастарским парцелма које су наведене у Идејном решењу подносиоца захтева (бр. техничке документације: A10278-1349/19-0, Београд, октобар 2019, пројектант CESTRA d.o.o., (IPF6 Konzorcijum) Макензијева 57, Београд);
 - 4) Организацијом градилишта (са јасно прецизираним локацијама за објекте, паркинге, депоније материјала, пролазак механизације и сл.), као и пројектом санације и уређења терена, потребно је обезбедити да се све површине које су на било који начин деградиране грађевинским и другим радовима што пре санирају, након завршетка радова;

- Локације предвиђене организацијом градилишта треба позиционирати ван плавне зоне реке Топлице (са друге стране трасе) и изван простора са високом вегетацијом;
- бавезне су мере техничке и биолошке заштите од буке, у складу са условима за тихе зоне и остале акустичне зоне. С тим у вези, предвидети изградњу заштитних ограда у зонама блиских насеља:
- 7) Током припрема, као и за само извођење радова, треба максимално искористити постојећу мрежу саобраћајница и избегавати изградњу нових путева за привремено коришћење, чиме би се додатно повећала фрагментација простора и природних и полуприродних станишта.
- Депоновање шута, земље и осталог отпада током и по завршетку радова у приобаљу и алувијону Топлице као и на пољопривредном земљишту је забрањено. Локације које ће се пројектом организације градилишта утврдити као привремене депоније морају бити изван ових зона:
- Дефинисати локације за постављање контејнера за привремено депоновање комуналног отпада. За одлагање чврстог отпада током изградње аутопута потребно је користити непропусне чврсте контејнере, које је неопходно редовно празнити под условима надлежне комуналне службе;
- 10) При извођењу радова на неопходној регулацији и уређењу водотока у зони прелаза предметне деонице, предвидети употребу камена и других природних материјала, и у највећој могућој мери избећи бетонирање обала и корита водотока (спровести тзв. натурално уређење водотока). Неопходно је максимално очување самог корита водотока, али и обале са постојећом вегетацијом која представља плодиште риба, односно станиште погодно за њихову природну репродукцију, а уједно представљају и енклаве аутохтоне, приобалне вегетације коју је неопходно сачувати;
- Радови на изградњи и уређењу простора морају бити изведени тако да не ремете постојеће подземне и површинске хидрографске везе и не утичу на квалитативне карактеристике подземних и површинских вода;
- 12) На местима пресека трасе аутопута и других водотока, где је предвиђено премошћавање истих те изградња мостова и пропуста за воду, неопходно је просторе испод мостовних конструкција пројектовати на начин да они испуне функцију еколошких прелаза, а да би се обезбедила или олакшала комуникација фаунистичких елемената дуж водотока (првенствено водоземци, гмизавци, сисари, водени организми). Локације ових прелаза/пролаза су на свим водотоцима на траси пута. Такви, мултифункционални еколошки прелази дуж водотока треба да поседују следеће карактеристике:
 - корито водотока треба да заузима само један део ширине еколошког прелаза. Са обе стране корита водотока испод мостовне конструкције треба оставити простор који ће омогућити несметан пролаз ситних и крупних животиња;
 - евентуална обалоутврда канала/водотока унутар прелаза треба да буде грубо храпава (оптимално решење су хоризонтална ребра), што ће спречавати да животиње упадну у воду и олакшаће им излаз из воде;
 - вегетација испред прелаза треба да буде физички повезана са природном вегетацијом околине помоћу ниске жбунасте или зељасте вегетације;
 - простор испред улаза треба да буде покривен природним типом земљишта датог локалитета (избегавати бетон, пръунак или камен).
- 13) Профил, конструкција и дужина предвиђених мостовних конструкција и пропуста морају да задовоље потребе осигурања релативно несметане постојеће и очекиване комуникације фаунистичких елемената са обе стране аутопута;
- 14) За воде које настају спирањем са коловоза и оптерећене су уљима и другим нафтним дериватима (оперативно - манипулативне површине, паркинзи, саобраћајница и др.) мора се предвидети изградња таложника и сепаратора масти и уља. Пре упуштања у реципијент или канализацију, обавезна је контрола њиховог квалитета;
- 15) Уколико током припреме и извођења предметних радова дође до хаваријског изливања горива и уља из возила и радних машина, или других опасних и штетних материја, обавезна је хитна санације терена. У случају изливања штетних материја у водотоке, потребно је планирати одговарајуће мере санације и заштите (анализу воде,..);
- 16) При осветљавању мостова применити решења која ће омогућити добру видљивост на мостовима, а истовремено је смањити у зони испод њих;

- 17) Дефинисати ужу и ширу зону утицаја саобраћајнице на животну средину (посебно са аспекта очувања пољопривредног земљишта и производње хране одговарајућег квалитета). Предвидети зоне утицаја и количине загађивача који спирањем са коловоза доспевају у земљиште и воду, на основу тога утврдити мере и препоруке за коришћење земљишта:
- 18) С обзиром на карактер и намену предвиђене саобраћајнице, у периоду експлоатације се може очекивати и транспорт хемијских отровних, запаљивих, експлозивних и на друге начине опасних или штетних материја. Стога је потребно размотрити проблем акцидентних ситуација, и дефинисати одговарајуће поступке и мере за заштиту људи, животне средине, превенцију акцидената и умањење негативних ефеката у случају да до њих доће;
- 19) У постконструктивном периоду неопходно је редовно чишћење соли која се користи за одржавање трасе аутопута у зимским условима. Со која се користи за одржавање трасе аутопута у зимским условима привлачи птице у том периоду, које ту со користе у исхрани. Чишћење соли у постконструктивном периоду неопходно је како би се смањила могућност привлачења птица на трасу аутопута, а тиме смањио ризик од удеса возила са птицама и повећала безбедност саобраћаја;
- Потребно је планирати ревитализацију полуприродних или природних станишта и вегетације након изградње предметне деонице;
- 21) Планирати подизање континуалног ивичног линеарног зеленила ван шумских зона, озелењавање раскрсница, разделних острва и тсл., посебно у насељеном делу чиме би се омогућила визуелна заштита контактних зона и естетско обликовање простора, умањили директни негативни ефекти (бука, издувни гасови возила,..). За озелењавање користити оне врсте које поседују већу способност апсорпције штетних издувних гасова, брзог раста и естетске вредности. Препоручује се аутохтона дендрофлора. Коришћење врста које су препознате као инвазивне и/или алергене није препоручљиво;
- 22) Зелени појас аутопута треба планирати тако да не омета прегледност саобраћајнице и не угрожава безбедност саобраћаја. Планско озелењавање коридора аутопута треба да се одвија у складу са предеоним карактеристикама подручја. Формирати и одржавати континуални појас заштитног зеленила (дрвореди у комбинацији са жбуњем) од врста отпорних на аерозагађење, које својим јестивим плодовима не привлаче животиње, са израженом функцијом заштите од ветра и средњег и високог ефекта редукције буке;
- Предвидети адекватан мониторинг загађености ваздуха и земљишта, у складу са законском регулативом;
- 24) Уколико се током планираних радова наиђе на геолошко-палеонтолошке или минералошко-петролошке објекте, за које се претпоставља да имају својство природног добра, сходно Закону о заштити природе извођач је дужан да обавести Министарство заштите животне средине у року од 8 дана, односно предузме све мере како се природно добро не би оштетило до доласка овлашћеног лица.
- Ово решење не ослобађа подносиоца захтева да прибави и друге услове, дозволе и сагласности предвиђене позитивним прописима.
- **3.** За све друге радове/активности на предметном подручју или промене пројектне документације, потребно је поднети нови захтев.
- **4.** Уколико подносилац захтева у року од две године од дана достављања овог решења не отпочне радове и активности за које је ово решење издато, дужан је да поднесе захтев за издавање новог решења.
- 5. Такса за издавање овог Решења у износу од 30.000,00 динара је одређена у складу са чланом 2. став 5. тачка 1. Правилника о висини и начину обрачуна и наплате таксе за издавање акта о условима заштите ("Службени гласник РС", бр. 73/2011, 106/2013).

Образложење

Надлежни орган, Министарство грађевинарства, саобраћаја и инфраструктуре обратило се захтевом заведеним под 03 бр. 020-955/1 од 09.04.2020. године за издавање услова заштите природе за изградњу Аутопута Е-80 у Србији (СЕЕТО Рута 7) од Ниша (Мерошина) до Плочника (Белољин). Захтев за издавање локацијских услова за предметну изградњу Министарству грађевинарства, саобраћаја и инфраструктуре, је поднело предузеће "Коридори Србије"д.о.о., 11000 Београд, ул. Краља Петра бр. 21.

Увидом у Централни регистар заштићених природних добара и документацију Завода за заштиту природе Србије, а у складу са прописима који регулишу област заштите природе, утврђени су услови заштите природе из диспозитива овог Решења.

Предметна траса аутопута скоро у једној тачки, где је предвиђена изградња тунела "Лалинац", дотиче подручје које је означено као еколошки значајно подручје и чини део еколошке мреже Републике Србије. Подручје означено као "Лалиначке слатине" подразумева десетак одвојених целина на потесу од Лалинца и Мрамора до Прокупља. Овим подручјем су обухваћена слатинска и степска станишта која су као таква ретка на територији Србије. Кључни делови подручја се налазе око Лалинца где је и заштићено подручје "Лалиначка слатина", затим око Мерошине (тип станишта слатина) и око Балиновца где су регистровани фрагменти степских станишта. Оваква станишта настањују неке од биљних врста које су типични представници травних формација и степа (Chrysopogon gryllus, Andropogon ischaemum, Achillea millefolium, Asperula cynanchica, Astragalus onobrychis, Carduus acanthoides Coronilla varia, Dactylis glomerata, Eryngium campestre, Euphorbia cyparissias, Lotus corniculatus, Medicago falcate, Salvia nemorosa, Scabiosa ochroleuca и др.). Између целина које чине делове IPA подручја се налазе житна поља, напуштене оранице, виногради, воћњаци, коровске заједнице окопавина и сл.

С обзиром да наведене врсте имају широко распрострањење у Србији, а да радови на усецању пута тангирају крајњу јужну периферију IPA подручја (где је забележена доминација рудерализованих станишта са врло малим фрагментима степе), мишљења смо да предвиђене активности неће имати утицај на конзервациони статус карактеристичних биљних врста, те да предложено решење трасе неће бити угрожавајући фактор за слатинска станишта.

На различитим деоницама трасе аутопута потврђено је присуство преко 120 врста строго заштићених и заштићених врста птица. Дуж деонице се налазе и вредна станишта врста као што су јаребица пољска (*Perdix perdix*) и препелица (*Coturnix coturnix*), Правилником о проглашењу и заштити строго заштићених и заштићених дивљи врста биљака, животиња и гљива сврстане су у категорију "заштићена дивља врста". Ово подручје је и једно од најзначајнијих станишта за ове две врсте у Србији, посебно за јаребицу пољску. Уједно се и ретко где у Србији могу срести тако бројне популације ових, ловно и економски значајних врста пернате дивљачи, па су мере за ублажавање ризика од страдања ових врста птица од великог значаја за њихове популације.

Законски основ за доношење решења је: Закон о заштити природе ("Службени гласник РС", бр. 36/2009, 88/2010, 91/2010 — исправка, 14/2016 и 95/2018-други закон); Закон о процени утицаја на животну средину ("Службени гласник РС", бр. 135/2004 и 36/2009); Уредба о утврђивању Листе пројеката за које је обавезна процена утицаја и Листе пројеката за које се може захтевати процена утицаја на животну средину ("Службени гласник РС", бр. 114/2008); Правилник о проглашењу и заштити строго заштићених и заштићених дивљих врста биљака, животиња и гљива ("Службени гласник РС", бр. 5/2010, 47/2011, 32/2016 и 98/2016); Правилник о специјалним техничко-технолошким решењима која омогућавају несметану комуникацију дивљих врста ("Службени гласник РС", бр. 72/2010).

На основу свега наведеног, одлучено је као у диспозитиву овог Решења.

Упутство о правном средству: Против овог решења може се изјавити жалба Министарству заштите животне средине у року од 15 дана од дана пријема решења. Жалба се предаје писмено или изјављује усмено на записник Заводу за заштиту природе Србије, уз доказ о уплати

Републичке административне таксе у износу од 480,00 динара на текући рачун бр. 840-742221843-57, позив на број 59013 по моделу 97.

ДИРЕКТОР

Александар Драгишић

НА ЧЕЛНИК ОДЕЉЕЊА Горан Дрмановић, маст.правник Goran Drmanović Digitally signed by Goran Drmanović 411431 Date: 2020.05.28 14:58:58 +02'00'

по Одлуци директора 04 р. 035-784/1 од 29.03.2017. године и 04 бр. 035-953/1 од 08.04.2020. године



Јавно предузеће за газдовање шумама "Србијашуме" Београд, Булевар Михајла Пупина 113.

тел: 011/711-34-10, 711-27-70

факс: 011/711-85-13 Број: 57-6 7

Датум: 14.04, 20 20

Република Србија Министарство грађевинарства, саобраћаја и инфраструктуре Сектор за просторно планирање и урбанизам Немањина 22 – 26 11 000 Београд

Предмет: Одговор на предмет ROP-MSGI-4058-LOCH-2/2020

Јавно предузеће "Србијашуме" примило је Ваш предмет бр. ROP-MSGI-4058-LOCH-2/2020 за издавање услова, из надлежности овог предузећа, за потребе израде аутопута Е-80 у Србији (SEETO Ruta 7): од Ниша (Мерошина) до Плочника (Белољин) — І фаза изградње (у даљем тексту: Пут), које достављамо у складу са Законом о планирању и изградњи ("Сл. гласник РС," бр. 72/09 и 81/09 — исправка, 64/10, 24/11, 121/12, 42/13 —УС, 50/13-УС, 54/13, 98/13, 132/14, 145/14, 83/2018, 31/2019,37/2019 - др. закон и 9/2020) у предвиђеном року, а који треба да буду испоштовани при изградњи Пута.

Након извршеног увида у трасу Пута и њеног преклапања са основним картама газдинских јединица којима газдује Јавно предузеће "Србијашуме", установили смо следеће:

- Траса Пута пролази кроз део Газдинске јединице "Видојевица" којом газдује Шумско газдинство "Топлица" Куршумлија.
- Основна намена шума је производња техничког дрвета, заштита земљишта од ерозије и стална заштита шума (изван газдинског третмана).
- Пут пролази кроз шуме високе заштитне вредности HCVF 4, представљају подручја која пружају основне природне користи у критичним ситуацијама.

При изградњи Пута, морају се узети у обзир и поштовати одредбе:

- Закона о шумама ("Сл. гласник РС", бр. 30/10, 93/12, 89/15 и 95/18 – др. закон), односно при изградњи Пута потребно је да се очувају шуме и шумско земљиште као добро од општег интереса. Ради очувања шума забрањена је сеча стабала заштићених и строго заштићених врста дрвећа; самовољно заузимање шума; уништавање или оштећење шумских засада, ознака и граничних знакова, као и изградња објеката који нису у функцији газдовања шумама; одлагање смећа, отровних супстанци и осталог опасног отпада у шуми, на шумском земљишту на удаљености мањој од 200 m од руба шуме, као и изградња објеката за складиштење, прераду или уништавање смећа; предузимање

других радњи којима се слаби приносна снага шуме или угрожавају функције шуме; одводњавање и извођење других радова којима се водни режим у шуми мења тако да се угрожава опстанак или виталност шуме. Имајући у виду да ће доћи до промене намене површина дефинисаних планским документом у шумарству, неопходно је, према члану 22. Закона о шумама, извршити измене и допуне овог планског документа (Основа газдовања шумама за одговарајућу газдинску јединицу). Трошкове измена и допуна сноси подносилац захтева на чију иницијативу се оне врше. Промена намене шума и шумског земљишта одређена је чланом 10. Закона о шумама. Накнада за промену намене шума и шумског земљишта дефинисана је чланом 50., а висина накнаде је уређена чланом 52. Закона о накнадама за коришћење јавних добара ("Сл. гласник РС", бр. 95/2018).

- Закона о водама ("Сл. гласник РС", бр. 30/2010, 93/2012, 101/2016, 95/2018 и 95/2018 - др. закон),

- Закона о заштити природе ("Сл.гласник РС" бр. 36/2009, 88/2010, 91/2010 - испр., 14/2016 и 95/2018 - др. закон),

- Правилника о специјалним техничко-технолошким решењима која омогућавају несметану и сигурну комуникацију дивљих животиња ("Сл. гласник РС", бр. 72/2010).

Изградња пута треба да има што мањи утицај на животну средину и амбијентални простор. По престанку радова и активности на предметном подручју извршити санацију, односно рекултивацију.

Сходно Правилнику о шумском реду ("Сл. гласник РС", бр. 38/11 и 75/2016) сеча стабала, израда, извоз, изношење и привлачење дрвета и други начин померања дрвета са места сече, врше се у време и на начин којим се обезбеђује најмање оштећење околних стабала, подмлатка, земљишног покривача, остале флоре, фауне и објеката, као и спречавање загађивања земљишта органским горивима и моторним уљем. За било какву активност у шуми и на шумском земљишту потребно је прибавити сагласност ЈП "Србијашуме".

Вршилац дужности директор

Игор Брауновић

Особа за контакт: Милена Денић, дипл. про. план. тел.: 064/815 55 89.

Прилог:

- Тематска карта основне намене;

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Република Србија

ЗАВОД ЗА ЗАШТИТУ СПОМЕНИКА КУЛТУРЕ НИШ

Ниш, Добричка 2, тел. 018/523-414, факс 018/523-412

E-mail: kontakt@zzsknis.rs

Број: 391/2-02 Датум: 22.04.2020.

Завод за заштиту споменика културе Ниш, на основу чл. 104 "Закона о културним добрима" (Сл. гласник РС бр. 71/94) и чл. 104 "Закона о општем управном поступку" (Сл. гласник РС бр. 18/16), а у вези са чл. 100 "Закона о културним добрима" (Сл. гласник РС бр. 71/94), решавајући по захтеву МИНИСТАРСТВА ГРАЂЕВИНАРСТВА, САОБРАЋАЈА И ИНФРАСТРУКТУРЕ, број предмета: ROP-MSGI-4058-LOCH-2-HPAP-18/2020 од 08.04.2020. године, а у вези захтева Коридори Србије д.о.о. Београд, са седиштем у Београду у ул. Краља Петра бр. 21, доноси

РЕШЕЊЕ

О утврђивању услова за предузимање мера техничке заштите за издавање локацијских услова за изградњу Аутопута Е-80 у Србији (SEETO Ruta 7) од Ниша (Мерошина) до Плочника (Белољин), I фаза изградње

I Мере техничке заштите: издавање локацијских услова за изградњу Аутопута Е-80 у Србији (SEETO Ruta 7) од Ниша (Мерошина) до Плочника (Белољин), I фаза изградње, може се предузети уз неизоставно поштовање следећих услова:

- Подносилац захтева је дужан да обезбеди све услове и омогући неометано и константно праћење радова, за све време трајања радова, од стране археолошке екипе – археолошки надзор;
- 2. Ако се у току извођења радова наиђе на археолошке и/или историјске покалитете или археолошке предмете, односно предмете из прошлости, извођач радова је дужан да одмах, без одлагања на том месту обустави радове и обавести надлежни Завод за заштиту споменика културе Ниш и да предузме мере да се налаз не уништи и не оштети и да се сачува на месту и у положају у коме је откривен, као и да обезбеди услове за заштитна археолошка истраживања;
- 3. Инвеститор објекта дужан је да обезбеди средства за истраживање, заштиту, чување, публиковање и излагање добра која се открију приликом изградње инвестиционог објекта до предаје добра на чување овлашћеној установи.
- II Подносилац захтева је дужан да изради пројекат у свему у складу са издатим условима из тачке I овог Решења.
- **III** Инвеститор је у обавези да по изради пројектне документације исту достави Заводу ради добијања сагласности да је урађена према прописаним условима. Један примерак пројектне документације доставља се за потребе Завода.
- IV Ово Решење не ослобађа подносиоца захтева прибављања услова о заштити природе и других решења предвиђених прописима.

V Ово Решење важи годину дана.

VI Жалба на Решење не одлаже извршење.

2 Образложење

МИНИСТАРСТВО ГРАЂЕВИНАРСТВА, САОБРАЋАЈА И ИНФРАСТРУКТУРЕ, упутило је захтев број предмета: ROP-MSGI-4058-LOCH-2-НРАР-18/2020 од 08.04.2020. године, а у вези захтева Коридори Србије д.о.о. Београд, са седиштем у Београду у ул. Краља Петра бр. 21 који је заведен у Заводу под бр. 391/1-02 дана 21.04.2020. за утврђивање услова за издавање локацијских услова за изградњу Аутопута E-80 у Србији (SEETO Ruta 7) од Ниша (Мерошина) до Плочника (Белољин), І фаза изградње.

Разматрајући захтев, у току поступка установљено је да на наведеном простору није извршена систематска проспекција непокретних културних добара.

У циљу заштите археолошких локалитета и добара која уживају претходну заштиту, Коридори Србије д.о.о. Београд, са седиштем у Београду у ул. Краља Петра бр. 21 дужно је да поступи по мерама прописаним овим Решењем.

Имајући у виду наведено, као и одредбе "Закона о културним добрима" (чл. 7, 8, 12, 27, 109, и 110) које прописују обавезу предузимања мера техничке заштите у циљу очувања добара која уживају претходну заштиту, донето је решење као у

На основу чл. 104 став 3. "Закона о културним добрима" прописано је да уложена жалба не одлаже извршење решења.

ПРАВНИ ЛЕК: Против овог решења може се изјавити жалба Републичком заводу за заштиту споменика културе Београд у року од 15 дана од дана пријема решења. Жалба се непосредно предаје или шаље поштом доносиоцу овог решења.

ДИРЕКТОР

Љиљана Берић

Доставити:

- Подносиоцу захтева
- Документацији

Ljiljana Berić 2005167679- ZAVC 0205958735 066

Appendix 3 Report on Public Consultations

Appendix 4 Grievance Forms

Grievances administration

Any grievance shall follow the path of the following mandatory steps: Receive Assess and assign, Acknowledge, Investigate, Respond, follow up and close out.

Once logged the CFD shall conduct a rapid assessment to verify the nature of grievances and determine on the severity. Within 3 days from logging it will acknowledge that the case is registered and provide the complainant with the basic next step information. It will then investigate by trying to understand the issue from the perspective of the complainant and understand what action he/she requires. The CFD will investigate by looking into the facts and circumstances interview all parties involved and confer with relevant stakeholders. Once investigated, and depending on the severity and type of grievance, the provisional decision shall be discussed with the complainant in the timeframe of 10 days after logging the grievance. Unilaterally announcement shall be an exception. The final agreement should be specific and issued and grievant informed about the final decision not later than 20 days after the logging of the grievance. Closing out the grievance occurs after the implementation of the resolution has been verified. Even when an agreement is not reached, or the grievance was rejected it is important to document the result, actions and effort put into the resolution, close out the case.

In case of anonymous grievance, after acknowledgment of the grievance within three days from logging, the CFD will investigate the grievance and within 20 days from logging the grievance, issue final decision that will be disclosed on the website of the KS. Closing out the grievance occurs after the implementation of the resolution has been verified.

The CFD shall keep a grievance register log that will have all necessary elements to disaggregate the grievance by gender of the person logging it as well as by type of grievance. Each grievance will be recorded in the register with the following information at minimum:

- description of grievance,
- date of receipt acknowledgement returned to the complainant,
- description of actions taken (investigation, corrective measures), and
- date of resolution and closure / provision of feedback to the complainant

Grievance Form

Reference No:				
Full Name				
Note: you can remain anonymous if you prefer, or request not to disclose your identity to the third parties without your consent. In case of anonymous grievances, the decision will be disclosed at the Projects website: www.koridorisrbije.rs				
First name				
Last name				
☐ I wish to raise my grievance anonymously				
Gender of complainant (completion of this field is optional)				
□ Male □Female □Other (please indicate)				
☐ I request not to disclose my identity without my consent Contact				
Information Please mark how you wish to be contacted (mail, telephone, e-mail).				
☐ By Post: Please provide mailing address:				
By Telephone:				
□ By E-mail				
☐ I will follow up of the resolution at the website as I want to remain anonymous				
Preferred Language for communication ☐ Serbian ☐ Other (indicate)				
Description of Incident or Grievance (What happened? Where did it happen? Who did it happen to? What is the result of the problem? Date of Incident/ Grievance)				
☐ One-off incident/grievance (date)				
☐ Happened more than once (how many times?)				
, , , , , , , , , , , , , , , , , , , ,				

Date:	l
Please return this form to: Koridori Schije d o o	

Appendix 5 Appropriate Assessment Screening for IPA Lalinačke Slatine

1 Introduction

1.1 Purpose of this report

Appropriate Assessment (AA) forms an integral part of the Environmental Impact Assessment report. It aims to provide a detailed ecological description of the Important Plant Area "Lalinačke slatine" that is expected to be influenced by the proposed Highway E-80 (SEETO Route 7) (section Nis-Merdare), and to assess the potential effects of the project in terms of the maintenance of the ecological integrity of the sites. Appropriate Assessments are carried out based on the potential project's affections on the site's conservation objectives and qualifying interests and, where needed, includes the definition of appropriate mitigation measures so as to ascertain that the project will not adversely affect the integrity of the protected area.

1.2 Project Overview

The improvement of the Highway E-80 (section Nis-Merdare) is considered of great significance. This highway forms part of a wider axis (Route 7) that links Bulgaria with Adriatic Sea via Serbia, Kosovo* and Albania.

This Route is part of the SEETO core network, a priority highway according to strategic documentation of Republic of Serbia and recently adopted by the EC as priority project. As high priority project in view of the Berlin Process it was discussed and reconfirmed in the meeting of WB6 Prime Ministers in Vienna (27-8-2015).

The construction of a new highway between Nis and Pristina through the administrative crossing point Merdare is expected to reduce significantly travel times, increase level of service and road safety and enhance regional transport activities, both passenger and freight.

Route 7, in addition to Corridor Xc (Nis-Pirot-Dimitrovgrad- Bulgarian border E-80/M-1.12), is part of European road E-80, as classified in the European Agreement on Main International Traffic Arteries and state road IB class no.35. Niš-Merošina-Prokuplje-Kuršumlija-Podujevo-Priština and state road IIA class no. 216 Prokuplje-Žitorađa-Doljevac, connection with the state road A1, as classified within the Serbian network.

Route 7 is one of the main east-west road corridors through Serbia and as such, it connects not only Nis and Pristina, but also represents the main connection with Corridor IV (which mainly crosses Bulgaria and Romania) and Corridor X with Route 6 (Skopje-Pristina) and Route 2b (Sarajevo-Podgorica-Vlora). This

motorway section of E-80 belongs to Trans-European Motorway network (TEM) and is also a part of TEN-T Corridor X (branch Xc).

Route 7 is included in the Priority Project List of the SEETO Five Year Multi Annual Plan 2014-2018 as part of the South-East Europe Core Regional Transport Network Development Plan, together with the link from Pristina to Merdare which was also proposed for financing from WBIF from Kosovo* (subproject WB11-KOSTRA-02).

1.3 Legislative and other frameworks for the conduction of Appropriate Assessment

The most important legal instruments for the protection of rare and endangered plant species and their habitats in Europe are:

The Directive on the Conservation of Natural Habitats and Wild Plant and Animal Species (Habitats Directive),

Convention on the Conservation of European Wildlife and Fauna and Natural Habitats (Berne Convention).

Both are binding documents for Serbia: the Berne Convention has been ratified (formal acceptance and recognition of a particular agreement or international convention) ("Off.Gazette of RS" No 102/2007), while at the moment of the accession process of Serbia to the European Union, harmonization of national regulations with the Habitats Directive is carried out. The need for appropriate assessment is included in the Habitats Directive.

The Law on Nature Conservation (Off. Gazette of RS. No. 36/2009, 88/2010 and 91/2010) is harmonized with the EU Habitats Directive and the Birds Directive. Specific aspects of nature conservation are regulated by various by-laws. Appropriate assessment is defined by the Law on Nature Conservation as a procedure that assesses whether the implementation of plans, bases, programs, projects, works and activities, alone or in combination with other such documents, works and activities can have a significant impact on the conservation objectives and the integrity of ecologically important areas. Article 10 of this Law has determined that a sub-legal act, which has not been adopted yet, will define the procedure, content, deadlines and manner of carrying out the appropriate assessment more closely in relation to the objectives of preserving the ecologically significant area.

In order to improve the protection and more efficient management of protected natural resources, the ecological network is established in Serbia. The ecological network includes interconnected or spatially close protected areas and ecologically significant areas whose parts are connected by natural or artificial corridors. It consists of areas of importance for the preservation of biodiversity, corridors connecting isolated habitats, and protective zones that reduce the negative environmental impacts. The composition, as well as the management of the ecological network, are determined by the Regulation on the ecological network ("Official Gazette of RS" No. 102/2010). For the time being the ecological network

of Serbia contains 101 ecologically significant areas, which are set-aside on the proposal of the Institute of nature conservation of Serbia. In compiling the list of areas that make up the ecological network of Serbia, the following are taken into account:

"Emerald" area (61 areas); Ramsar area Important Plant Areas, (61 areas) Important Bird Area / IBA area (42 areas) Prime Butterfly Areas / PBA (40 areas).

In view of the lack of the above mentioned sub-legal act, the methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC was mainly referred. According to this guidance the provisions of the 92/43/EU Habitats Directive involve a number of steps and tests that need to be applied in sequential order. This decision-making process of Article 6 is underpinned by the precautionary principle as well as promoting the hierarchy of avoidance, mitigation and compensatory measures to be addressed during the appropriate assessment process:

Avoidance: initially, a project should aim to avoid any negative impacts on Natura 2000 sites by identifying potential impacts early in project planning and afterwards by selecting the most appropriate solution in terms of avoiding such environmental impacts.

Mitigation: mitigation measures should be applied during the AA process to the point where no adverse impacts on the site remain.

Compensatory measures: as a worst-case scenario, a plan may have to undergo an assessment of alternative solutions. Under this stage of the assessment, compensatory measures are required for any remaining adverse effects, but they are permitted only if there are no alternative solutions and the plan is required for imperative reasons of overriding public interest.

Based on these principles, it has become generally accepted that the assessment requirements of Article 6 establish a stage-by-stage approach. An outline of the steps and procedures involved in completing each stage is summarised below:

- **1: Screening** the process which determines whether a plan or project may have an impact on the conservation objectives and or the qualifying interests of the site concerned, either alone or in combination with other projects or plans, and considers whether these impacts are likely to be significant;
- 2: Appropriate Assessment the consideration of impacts on the integrity of the site concerned of the project or plan; either alone or in combination with other projects or plans, with respect to the site's structure, function and its conservation objectives. Assessment must be based on best scientific knowledge available and take into account cumulative impacts. Additionally, mitigation measures are identified and assessed:

- **3: Assessment of alternatives** in case the plan or project is harmful to the integrity of the site concerned, despite all identified mitigation measures, alternative ways of achieving the objectives of the project or plan are examined, that avoid adverse impacts on the integrity of the site concerned;
- **4:** Assessment where no alternative solutions exist and where adverse impacts remain an assessment of compensatory measures where, in the light of an assessment of imperative reasons of overriding public interest, it is deemed that the project or plan should proceed (it is important to note that this guidance does not deal with the assessment of imperative reasons of overriding public interest).

Each stage in the assessment process precedes and provides a basis for other steps. The results at each stage must be documented and recorded carefully to provide for traceability and transparency of the decisions made, as they determine the decisions that ultimately made in relation to approval or refusal of a plan or project.

2 Project Description

The present Appropriate Assessment is processed for the part of the new highway section from Nis to Ploncik, part of Route 7, which connects Nis with Albania and the Adriatic/Ionian Sea and their ports. The position of the Nis-Plocnik road section within the wider Western Balkans region is shown in the following figure.



Figure 9 The position of the Nis-Plocnik road section within the wider Western Balkans region

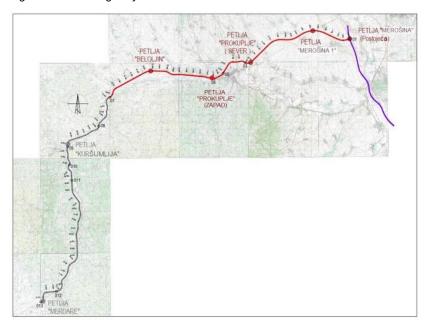
2.1 Highway route

With respect of different characteristics the new highway corridor can be divided into three main sections:

Highway E-75 - Prokuplje

Prokuplje bypass Prokuplje – Pločnik

Figure 10 Highway route



Section: Highway E-75 (Merosina) - Merosina 1 - Prokuplje

The starting point is the existing interchange "Merošina", connection to Highway E-75, south of Niš. The section is completed by entering the Prokuplje, and is defined by the Regional Plan of the Republic of Serbia.

The alignment passes through the valleys of rivers and streams in plain and hilly terrain conditions. Villages are mostly located along the road and along water courses. The land is fertile arable land, usually with annual plantings and to a lesser extent orchards and vineyards.

Highway route will be mostly on embankments or cuttings with small bridges over existing watercourses and three tunnels. Two shorter up to 300m and one longer over 600m.

The highway alignment in this section, and in particular in sub-section Merosina 1-Prokuplje passes through the IPA area "Lalinačke slatine".

Section: Prokuplje bypass

The Prokuplje Bypass is placed on the north side of Prokuplje on a terrain that is characterized as hilly to mountainous with settlements along the roads that pass through the valley between the hills.

Slopes of the terrain are very steep and hard to pass. The route of the highway is placed on high embankments, which turns deep cuts to the buildings, bridges and

tunnels. The longest bridge is L=1100m. There are four tunnels, three of which up to 300m and one over 1100m.

The northern part of the Prokuplje bypass is located in favourable terrain conditions with scattered settlements.

The hills on the north side of Prokuplje are reserved – by the Regional Plan of Prokuplje - for the bypass.

Section: Prokuplje - Pločnik

This area extends along the Valley of Toplice River. The first part of the valley up to Beloljin is much wider and provides opportunities for alternative routes within a flattened area. The slopes of the surrounding hills are not so steep and not too complicated to build a highway route.

In total the highway will be mainly on embankments or cuttings, sometimes with structures such as bridges over water courses and tunnels, and can be considered as a route through mountainous terrain.

2.2 Technical Description of the Project

2.2.1 Design Speed

By current and prospective traffic load, topography and created conditions, the highway alignment route is divided into the following sections:

Table 4 Sections of the highway alignment

Section	ChainageE	Length [km]	Terrain	Speed	
				Basic Vo [km/h]	Design Vr [km/h]
Merošina (E-75)– Merošina 1	0+000,00– 5+500,00	5.500	Lowlands	100	130
Merošina1 - Prokuplje (Istok)	5+500,00- 14+283,84	8.783	Mountainous	100	130
Prokuplje (Istok)- Prokuplje (Zapad)	14+283,84- 27+096.32	12.812	Highland, mountain	80	100
Prokuplje (Zapad)- Beloljin	27+096.32- 32+650.00	5.553	Lowlands	100	130
Beloljin - Pločnik	32+650.00- 39+419.45	6.769	Lowlands	100	130

2.2.2 Functional and Geometric characteristics

On the subject section of the highway, design speed Vr = 130 km / h was adopted and in accordance with these other boundary elements.

The width of the highway is 11.50 m. The split belt is designed in width of 4.00 m.

The elements of the highway layout and the highway vertical alignment on this section are largely determined by the topography of the terrain, as well as the spatial limitations encountered in the adopted highway corridor. This way, the horizontal alignment is composed of straight alignment and horizontal curves of the radius R1 = 1600 m, R2 = 2000 m and R3 = 2400 m.

The highway profile is characterized by a slightly steeper rise and fall in order to better fit the route into the topography of the area, where the minimum slope is in = 0.50%, and the maximum in = 4.00%.

Table 5 Geometrical cross-section - full motorway profile

Cross section:	Vr =130km/h		
lane width for continuous drive	ts	[m]	3.75
width of emergency lane	tz	[m]	2,50
width of the edge strips:		[m]	
a) between the lane and the median	tiv	[m]	1,00
b) between the driving and emergency lanes	tiz	[m]	0,50
shoulder width:		[m]	
a) along the emergency lane	tbz	[m]	1,50

Table 6 Design elements of the highway – full motorway profile

Layout plan:			Vr=130km/h
the minimum radius of horizontal curve	minR	m	800
the maximum radius of horizontal curve	maxR	m	5000
minimum length of transition curve	minL	m	112,50
			(A=300)
the maximum longitudinal grade	max i	%	4.0
maximum slope of twisting ramps	max ir	%	0.9
minimum slope of twisting ramps	min ir	%	0.4
the minimum radius of convex curvature	minRv∩	m	22500
the minimum radius of concave curvature	minRv∪	m	11250
minimum cross grade	min ipk	%	2.5
maximum cross grade	max ip	%	7.0
minimum length of stopping sight	minPz	m	300
maximum width zone visibility	bp	m	14,00

2.2.3 Tunnels

On the section Niš – Pločnik (km0+000 to km39+500) of the highway Niš – Merdare, the construction of a total of 6 tunnels, is planned.

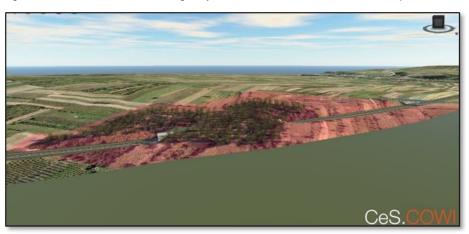
Table 7	Review of tunnels per section
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Tunnel	Beginning of tunnel	End of tunnel	Length
Debelo brdo	9+570.00	9+790.00	220 m
Lalinac	11+625.00	11+850.00	225 m
Božurna	15+300.00	15+920.00	620 m
Vršnik	19+550.00	19+750.00	200 m
Računkovo brdo	20+250.00	21+425.00	1175 m
Plehane kuće	22+120.00	22+340.00	220 m

The proposed highway alignment directly crosses the Important Plant Area by the tunnel "Lalinac", which is planned to be built using the "cut and cover" method. The tunnel consists of two connected tubes formed from piles and beams with slab. The entrance portal of both tunnel tubes is located at chainage km 11 + 625, while the exit portal at chainage km 11 + 850. The length of the tunnel is 225 m. Standard cross section elements for tunnel are designed for design speed of 130 km/h, as per rulebooks, but maximum speed in tunnel will be reduced according to traffic signalization and safety regulation. The roadway is in one-sided longitudinal slope of 3.5% toward the exit portal. Tunnel "Lalinac" is shorter than 300.00 m, so in accordance with the standards for the design and construction of tunnels on the highways, there are no specially designed security measures, so pedestrian paths are used as paths of evacuation.

Tunnel "Lalinac" will be built by placing three rows of piles, connected with concrete beams that are monolithically linked with the concrete slab. After that, backfill and tunnel excavation will be done. The clearance area of the left tube is 73.18 m2, while of the right tube it is 68,32m2. Geological conditions are such that single construction type can be adopted along the entire length of the tunnel. The construction is carried out mainly in silty ground and marl clay.

Figure 11 3D model of the highway route with the "cut and cover" tunnel position



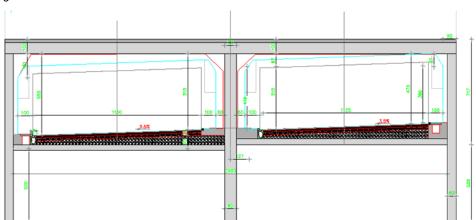


Figure 12 Tunnel "Lalinac" construction

2.2.4 Drainage concept

3 General concept

Drainage design propose such a solution that all storm water from pavement surface are efficiently collected and taken for the treatment and continue to the recipient. Rainwater from cut and fill slopes are collected with trenches and concrete channels along the right of way fence.

The tunnels have drainage systems and fire hydrant network in case of firefighting.

Tunnels are equipped with a drainage system for the collection of spillage from the pavement in case of the incidents. This system consists of linear channels (slotted gutter type), that are connected to main collector (underneath the pavement) through siphons. This solution is designed to maintain and prevent fire and flammable and toxic fluids from spreading inside and between tubes.

Second part of tunnel drainage system consists of perforated drainage pipes for the collection of groundwater from the rock. While in short tunnels rock drainage have a free outfall into the recipient at tunnel portals, in longer tunnels, these pipes are connected to the second main collector (which is parallel to the collector for pavement drainage) at required distances.

3.1 Construction

The following works on the construction of the highway on the subject section, can have an impact on the protected area:

Clearance of the way - Surface clearance or excavation shall comprise site clearance from trees, shrubs, waste, and all oversized material and must include stumps and roots excavation. The approximate width of clearance is 100 m.

Excavations - This work comprises soil excavation during excavation on route location. Excavated material at the location of tunnel Lalinac will be disposed

on selected temporary locations near the route. After the tunnel construction, the excavated soil will be restored on the roof of the tunnel and levelled with the level of the surrounding area.

Bulk materials - Embankment construction shall comprise filling, rough and fine planning, and wetting and compacting material on top of the tunnel in conformity with dimensions.

3.2 Operation and Maintenance

In the subject area - IPA area Lalinačke slatine - the highway will go through a tunnel so after completion and restoration of the excavated materials the recultivation of vegetation will be done, and we can say that there will be no permanent impact.

In the context of maintenance work regular maintenance works for safe tunnel operation will be done, with possible short closing for inspection and works. On the highway is planned controlled drainage system, so the regular maintenance works will not affect the surrounding land.

4 The "Lalinacke slatine" IPA

The Natural Monument "Lalinačka Slatina" is one of the biggest salt marsh at the foot of the Mali Jastrebac Mountain. "Lalinačka Slatina" is formed from water with an increased content of mineral salts, and above all sodium chloride, which in several locations outburst from the depth of the substrate and the blue surrounding land. The protected area is characterized by a rare occurrence of salt marsh outside the Pannonian Plain in Serbia. The natural Monument is located about 5 km away from the route of the highway. The Natural Monument "Lalinačka Slatina" is a part of the IPA area of "Lalininačke Slatine".

The IPA area of "Lalininačke Slatine" consists of 11 smaller unconnected parts of a total area of 2012.35 ha. The delineation of the different sites of the IPA "Lalininačke Slatine" was based more on the presence of natural/semi-natural vegetation and the assumption of salt soils and less on the actual presence of salt marsh and salt steppe habitats. Among the units that make up parts of IPA area are wheat fields, abandoned fields, vineyards, orchards, weed communities, row crops and the like. Only in one of the eleven parts of the IPA there is actually a salt marsh.

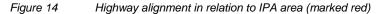
Figure 13 The position of "Lalinacka slatina" in relation to the highway

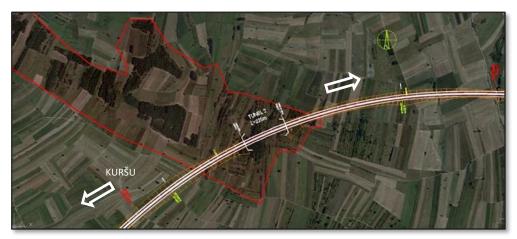


Based on the results of field studies carried during the ESIA preparation (30-05-2016 until 3-06-2016) and in-situ studies from experts of the Institute for Nature Conservation , the institute for nature conservation has issued the opinion (No 020-1429/2 from 10-08-2016.) that the vegetation of the part of the IPA area (the locality of Jug Bogdanovac) that will be affected by the highway construction and operation consists of old abandoned orchards, vineyards, fields and similar agricultural areas. No salt marsh and/or steppe habitats are observed in this part.

5 Appropriate assessment screening process

The proposed highway alignment directly crosses the Important Plant Area "Lalinačke slatine" in a total length of approximately 600 m, from km 11+450 up to km 12+150 (Figure 6). The part from km 11 + 625 until km 11 + 850 (225 meters) will be the tunnel "Lalinac" and the rest 375 meters will be in a cut.





Because of the potential interaction between the project and the IPA site it has been considered that a Screening Process is needed. The purpose of the Screening is to identify the likely impacts of the project upon the IPA, either alone or in combination with other projects or plans in the area, and considers whether these impacts are likely to be significant.

IPA name	"Lalinačke slatine"
Location along the highway	km 11+450 up to km 12+150
IPA description	The IPA includes eleven separate units in the farmland of Lalinac and Mramor to Prokuplje. Key parts of the IPA are located around Lalinac where the natural monument/protected area "Lalinačka Slatina" is, then around Merošina (habitat type salt marsh) and around Balinovac where steppe habitat fragments are registered. These habitat types are rare on the territory of Serbia. The other units have been delineated following the presence of remnant natural vegetation and thus the possible existence of salt marsh or steppe habitats. Among the units that make up parts of the IPA area are wheat fields, abandoned fields with ruderal vegetation, vineyards, orchards, row crops etc.
Individual components of the project likely to give rise to impacts on the IPA site	The highway itself would impact the rare habitat types if present in the area. The IPA parts with recognised salt and steppe habitats are located about 5 km from the highway, i.e. important and rare habitats are NOT present in the area affected by the highway and are not crossed by the highway route.
Likely impacts/likely changes to the site	Even though the highway intersects the periphery of the IPA, no qualifying features of the site will be directly or indirectly affected by the project and there will be no secondary impacts from the project either. Both field studies carried during the ESIA preparation (30-05-2016 until 3-06-2016) and <i>in-situ</i> studies from experts of the Institute for Nature Conservation confirmed

that no important and or rare habitats and especially salt marshes and/or salt steppes are found in the concerned section. As it is also stated in the opinion No. 020-1429/2 08-10-2016 of the Institute for Nature Conservation, the existing vegetation in the section where the highway route intersects the periphery of IPA "Lalinačke slatine", consists of plant species with a wide distribution in Serbia without any conservation status or and not characteristic of salt marsh or salt steppe habitats. The species present are typical representatives of grass formations (Chrysopogon gryllus, Andropogon ischaemum, Achillea millefolium, Asperula cynanchica, Astragalus onobrychis, Carduus acanthoides Coronilla varia, Dactylis glomerata, Eryngium campestre, Euphorbia cyparissias, Lotus corniculatus, Medicago falcate, Salvia nemorosa, Scabiosa ochroleuca etc.). On the periphery of IPA site, uncultivated habitats are dominant with very small fragments of steppes. Based on all of these data the Institute for Nature Conservation concluded that the selected technical solution of a "cut and cover" tunnel of a total length of 225m is feasible regarding protection of the IPAs natural Screening result The project does not affect qualifying elements of the site, in this case the salt steppe habitat and it is no likely that a significant effect will be raised on possible key values No AA is required for this site.

6 Conclusion

As per the results of the screening process it is concluded that the site can be screened out as no likely significant effect will be raised on the key values or integrity of the IPA "Lalinačke slatine".