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ROAD REHABILITATION AND SAFETY PROJECT (RRSP)

ENVIRONMENTAL MANAGEMENT PLAN

Heavy maintenance (road rehabilitation - upgrading) of the State Road of the IIA 160

Section: Svilajnac – Medvedja

FINAL

Novi Sad, March 2019

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ABBREVIATIONS AND ACRONYMS

AADT Annual Average Daily Traffic

BD **Bidding Documents**

Bill of Quantities BoQ

CEP Contractor's Environmental Plan

EBRD European Bank for Reconstruction and Development

EHS Environmental, Health and Safety guidelines

ΕIΑ **Environmental Impact Assessment**

EIB **European Investment Bank**

EMP Environmental Management Plan

HSE Health, Safety and Environment

IFC International Finance Corporation

IFIs International Financing Institutions

INCS Institute for Nature Conservation of Serbia

IPCMK Institute for Protection of Cultural Monuments Kragujevac

MEP Ministry of Environmental Protection

Ministry of Construction, Transport and Infrastructure **MoCTI**

MS Method Statement

PERS Public Enterprise "Roads of Serbia"

PPE Personal Protective Equipment

PSC Project Supervision Consultant

RE Resident Engineer

RRSP Road Rehabilitation and Safety Project

SE Site Engineer

SLMP Safety Labour Management Plan

Site Specific Implementation Plan SSIP

ToR Terms of Reference

WB The World Bank Group

WMP Waste Management Plan

PAP Project affected persons

SEP Stakeholder Engagement Plan

NTS Non-Technical Summary

INTRODUCTION

The Environmental Management Plan (EMP) has been prepared for the proposed heavy maintenance and rehabilitation (road rehabilitation-upgrading) of the State Road of the IIA 160, section Svilajnac-Medvedja to ensure the application of good environmental practice and document compliance with the requirements of the contract.

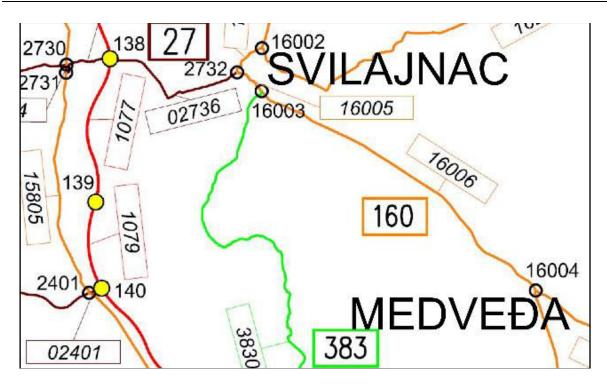
Length of the section Svilajnac (Crkvenac) - Medvedja (Glogovac) is 14.774 km. The beginning and the end of the road section IIA 160 coincide with the nodes 16003 Svilajnac (Crkvenac) and 16004 Medvedja (Glogovac). The subject section belongs to the Pomoravlje Administrative District located in the central and eastern part of the Republic of Serbia. The section Svilajnac (Crkvenac) - Medvedja (Glogovac) in length of 14.774 km belongs to the State road of IIA 160 (old road mark R-103) (Decree on the categorization of state roads, "Official Gazette of RS ", No. 93/2015).

The Republic of Serbia has applied for a loan from the World Bank, European Investment Bank and European Bank for Reconstruction and Development for financing of the costs of Road Rehabilitation and Safety Project and intends to apply a part of loan proceeds for heavy maintenance on state road IIA 160, section Svilajnac - Medvedja.

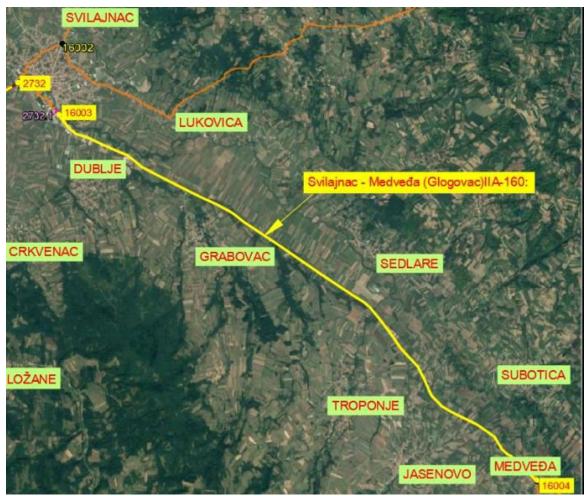
The Project has been classified as Environmental Category B, i.e. a project requiring an EMP pursuant to IFIs Safeguard Policies.

The EMP is analysing the rehabilitation and implementation phase of the project EMP defines measures and Contractor's obligation during rehabilitation phase that have to be implemented in order to protect environment.

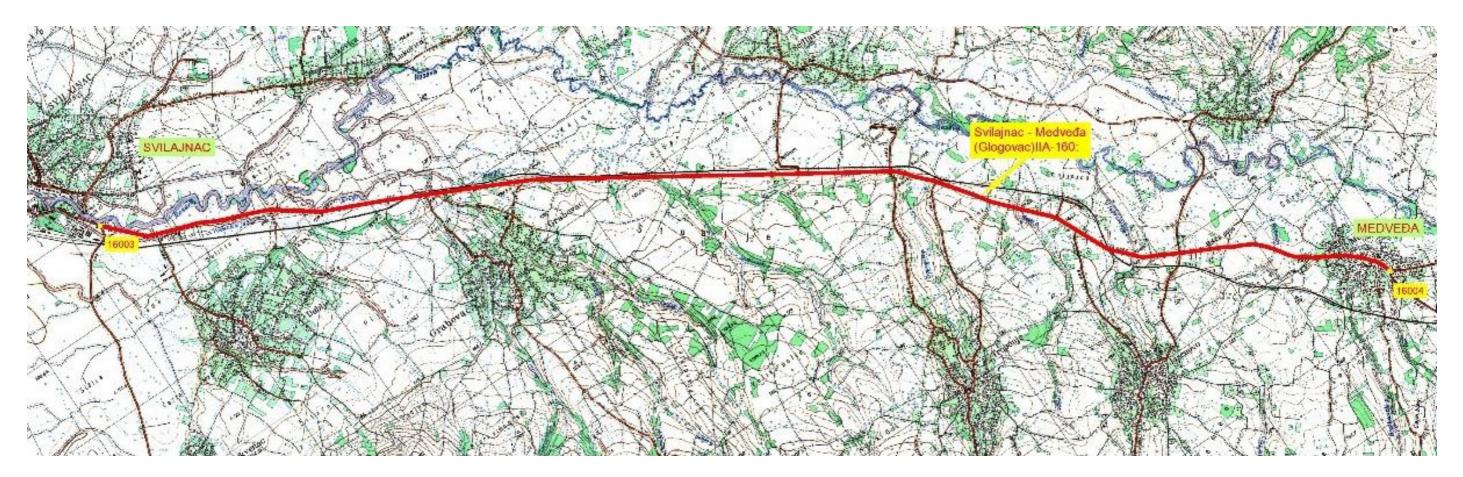
The aim of the environmental management plan is to highlight the negative environmental impacts and management problems during the construction period, as well as the necessary mitigation measures that the Contractor must apply. The key components of the Environmental Management Plan are: Plan for the mitigation of adverse impacts on the environment and Plan for monitoring the impact on the environment. They are prepared based on field investigations and contract requirements.



Picture 1. Location of section Svilajnac-Medvedja



Picture 2. Location of section Svilajnac-Medvedja



Picture 3. Coverage of the project Svilajnac-Medvedja

EXECUTIVE SUMMARY

Project description

Project of heavy maintenance and rehabilitation of state road IIA 160 section Svilajnac - Medvedja is part of the support project of the International Financial Institutions (World Bank, European Investment Bank and European Bank for Reconstruction and Development) to the Government of the Republic of Serbia for the Road Rehabilitation and Safety Project (RRSP). This project represents the first phase of the Government's National Road Rehabilitation Program for the period 2014-2019 and includes:

- Improvement of the national road network through rehabilitation of about 1.100 km of existing road network spread over the entire country;
- Increasing the safety level on designated roads by applying safety measures in all project phases:
- Capacity building and coordination of traffic safety institutions through implementation of a number of different services.

State road IIA 160 represents a traffic link between the Branicevo and Pomoravlje Administrative District, thus the subject section connects the Municipality of Svilajnac and the local community of Medvedja.

Section Svilajnac (Crkvenac) - Medvedja (Glogovac) is located on the road Pozarevac - Zabari - Svilajnac - Despotovac - Dvoriste - Resavica - Senje - Cuprija. Start and end sections provided for the rehabilitation coincide with nodes 16003 Svilaiinac (Crkvenac) and 16004 Medvedia (Glogovac).

Functionally, according to Regulation on conditions that from the aspect of traffic safety must be fulfilled by road facilities and other elements of the public road ("Official Gazette of RS" No. 50/2011) this section is classified as a regional road.

89.12% of the section, according to its characteristics, is treated as road out of urban areas, while 10.88% runs through a suburb of the city of Svilajnac (720 m) and through Medvedja (886 m).

The road works covered by the Project will be carried out on the existing road with no change of the dimensions of the existing road, and as such no expropriation is necessary. The project entails no resettlement and land acquisition as defined by OP 4.12, nor long lasting disruptions to the natural environment, settlements and to the quality of life of the local population.

Total length of the section, according to Road Database, is 14.774 km.

According to the implementation plan, the main objectives of the project are to increase the usage value and durability of the road, improve traffic safety, consider requirements of the local community (social aspect) and comply with the environmental requirements to the maximum extent possible in the circumstances of physical constraints and limitations arising from the nature of the permitted construction and traffic interventions.



Picture 4. Section in the inhabited area.



Picture 5. Facilities along the section Svilajnac-Medvedja.



Picture 6. Typical road landscape of section Svilajnac-Medvedja.

Special attention should be given to the sections passing through urban areas, close to schools, kindergartens, intersections and public buildings. On these locations it is necessary to construct and rehabilitate existing sidewalks and improve traffic safety.

Policy, legal and administrative framework

The Ministry of Environmental Protection (MEP), is the key institution in the Republic of Serbia responsible for formulation and implementation of environmental policy matters.

In the Republic of Serbia, the Environmental Impact Assessment procedure is regulated by the Law on Environmental Impact Assessment ("Official Gazette of RS" Nos. 135/04 and 36/09), which is completely in line with European EIA Directive -85/337/EEC. The Environmental Impact Assessment is not required when road rehabilitation and maintenance of regional or main roads is planned.

Based on the decision issued by the Institute for Nature Conservation of Serbia, state road IIA 160 section Svilajnac-Medvedja is not located within a protected area, for which the process of protection is implemented or initiated (Appendix V - 2).

Under the terms issued by the Institute for Protection of Cultural Monuments Kragujevac there is one cultural monument of high importance for Republic of Serbia:

1. IDIMUM - Archeological site

On the left bank of the Resava River in the village of Medvedja near Despotovac at the sites of Bedem and Popov cair, there are remains of the Roman road station Idimum on the road Via publica (Viminacium - Naissus). Archaeological research of the site was performed between 1960 and 1962 by the National Museum in Belgrade. On that occasion, parts of the Roman road and the remains of architecture were discovered, among which there were thermae and other smaller buildings, and the analysis of the obtained data confirmed that there was a civilian settlement (vicus) next to the road station (mansio). Movable archaeological material revealed that the works on the site were originally undertaken in the end of the 3rd and 4th centuries.

Works on road rehabilitation are permitted under conditions mentioned in the received document. Conditions mainly apply to the excavation works and discovering of potential new archaeological sites. The Conditions are attached to this document (Appendix V-1).

Request for opinion regarding necessity of EIA procedure for this project was submitted to The Ministry of Environmental Protection (MEP). According to received response ref. No. 011-00-0101/2017-02 dated August 3rd 2017 (attached to this document, Appendix V- 4), EIA procedures are not required.

Lender requirements will also apply to this project and include the following **Environmental Policies**

- Operational Policy OP 4.01 Environmental Assessment;
- EBRD Environmental and Social Policy 2008

EIB Statement of Environmental and Social Principles and Standards (2008).

The World Bank (WB), European Bank for Reconstruction and Development (EBRD) and European Investment Bank (EIB) require that the project complies with the national laws of Republic of Serbia and EU standards. List of main laws and regulations currently in effect in Republic of Serbia is attached in Appendix III.

Baseline conditions assessed during route survey

The section of the state road of IIA 160 connects Svilajnac and Medvedja. Length of the section to be rehabilitated is 14.774 km.

On the section belonging to the IIA 160 road from Svilajnac to Medvedja, there are 26 (twenty-six) culverts on the section, pipe, box and arched. The culverts are generally in poor condition. The technical solutions for repair shall be carefully adopted, as some of the culverts have been extended in the previous period.

On two culverts at app. chainage km 53+230 and km 54+530, the width of the pavement is app. 4.8 m, while the total width of the traffic profile is app. 6.5 m. Both culverts are in extremely poor condition. Urgent repair of the walls and extension of the traffic profile with appropriate curbs and protective fence / sidewalk fences is required. Possible extension, prolongation and cutting of existing and construction of new culverts will be analysed and defined in the Main Design.

The route crosses the following watercourses:

- Vodenicki trough km 46+603.00;
- Jaruga km 47+791.00; •
- Jaruga km 48+443.00;
- Jaruga km 49+840.00;
- Jaruga km 50+323.00;
- Troponjski stream km 53 +200.00;
- Vlaski creek km 54+378.00;
- Jasenovacki creek km 55+887.00;
- Lipovacki creek km 57+488.00;
- Brestovacki creek km 58+288.00;
- Buk km 58+740.00.

Within the landslide zone, at approximate chainage km 50+145.00 in length of 100 m, repair of the pavement structure on the respective stretch has been performed during regular maintenance.

The existing condition shall be checked within the Design and additional repairs of all road elements shall be anticipated, if any.

There will be no land acquisition as defined by OP 4.12 during the project implementation.

Within the corridor of road section Svilajnac- Medvedja there are no significant sources of noise or air pollution.

Section Svilajnac-Medvedja goes through settlements Svilajnac, Grabovac and Medvedja.

Current traffic load (AADT) on section Svilajnac - Medvedja is 2185 vehicles/day.

Summary of environmental impacts

Road rehabilitation works on proposed sections will have only minor impacts on the environment (environment category B). Most impacts are temporary and they will disappear after the road rehabilitation works are completed.

The possible temporary impacts as a consequence of construction activities will consist of, disruption of current traffic circulation, roadway safety, damage to access roads, dust nuisance, gaseous emissions, potential pollution of soils and water resources, brief disturbance to biota, and momentary interference to neighbouring settlements through various construction activities. The Contractor's base and workers camp can be potential sources of temporary adverse impacts.

No relocation and resettlement issues as defined by OP 4.12 are anticipated. Local residents will be affected with minor air and noise pollution during rehabilitation works on proposed road section.

In respect to future use of the rehabilitated road section – this section belongs to the inter-regional roads network, on which a significant increase of road traffic as a result of rehabilitation works is not expected.

Various cases of water contamination can occur during the rehabilitation of the road and future operation. Adequate mitigation measures (waste water collection from the road surface and bridges, installation of oil separators before discharging waste water) and monitoring activities are planned, in accordance with the Law on Water ("Official Gazette of RS", Nos. 30/2010, 93/2012, 101/2016 and 95/2018). As for the potential pollution during operation, these are limited to accidents only. In such a case, procedures for action in incidental situations, as defined by the Ministry of Interior and in the Law on Water, will apply.

In respect to impact of the potential increase of the vehicle speed on rehabilitated roads, this issue will be addressed through the project's road safety component, which will include implementation of the active and passive measures to control the vehicle speed on rehabilitated road sections.

The proper implementation of the EMP mitigation measures, as listed in Appendix I would offset or minimize any impact on local human and biotic environment that might be related with any long-term cumulative negative effects.

Environmental management plan

Possible environmental impacts that shall be mitigated during the rehabilitation and operation Phases, are summarized and shown in Appendix I.

The rehabilitation impacts will be minor, reversible and manageable if the mitigation measures, as given in the EMP, are properly implemented.

EMP has 2 main parts:

• Mitigation Plan (Appendix I),

Monitoring Plan (Appendix II).

With Institutional arrangements and reporting procedures as shown in Chapter C of this EMP document.

During the rehabilitation, the Contractor will work according to the Contractor's Environmental Plan (CEP) which is based on the EMP.

The findings and proposed mitigation measures have been compiled into an Environmental Mitigation Plan (Appendix I). It summarizes all the anticipated environmental impacts and its associated mitigation measures during the design, rehabilitation and operational phases. It makes reference to the laws and contract documents, approximate location, time-frame, and the responsibility for its implementation and supervision.

A monitoring plan for the proposed Project (Appendix II) has been prepared as well.

The main components of the monitoring plan are the following:

- 1. Environmental issues to be monitored and the means of verification,
- 2. Specific areas, locations and parameters to be monitored;
- 3. Applicable standards and criteria;
- 4. Duration and frequency;
- 5. Institutional responsibilities for monitoring and supervision.

Public consultations

As required by the IFIs Safeguards Policies, public consultations were organized during the preparation of EMP and before the start of the works. The EMP and other project information were disclosed to the Public and made available locally to the communities. All documents were delivered to the Municipalities, made publicly available on site, placed on PERS's web site and announced in the newspapers.

The public was informed through local media about the time and place of public consultations.

Detailed Report on Public Consultation process is presented within the Appendix VI of this EMP document.

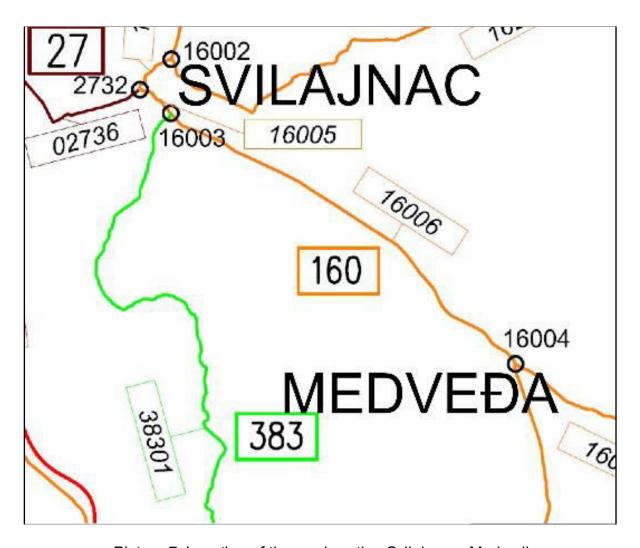
Beneficiary consultations will be conducted during the construction phase, and records of environmental and social issues raised and complaints received during consultations, field visits, informal discussions, formal letters, etc. will be followed up and the records will be kept by the Contractor.

A Grievance Mechanism will be implemented to ensure that all complaints from local communities are dealt with appropriately, with corrective actions being taken 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 IV and hard copies will be made available at community centres.

PROJECT DESCRIPTION

Location description

The subject section belongs to the Pomoravski Administrative District located in the central and eastern part of the Republic of Serbia. The section Svilajnac (Crkvenac) - Medvedja (Glogovac) in length of 14.774 km belongs to the State road of IIA 160 (old road mark R-103) (Decree on the categorization of state roads, "Official Gazette of RS ", No. 93/2015). It represents a traffic link between the Branicevo and Pomoravlie Administrative District, thus the subject section connects the Municipality of Svilajnac and the local community of Medvedja.



Picture 7. Location of the road section Svilajnac – Medvedja

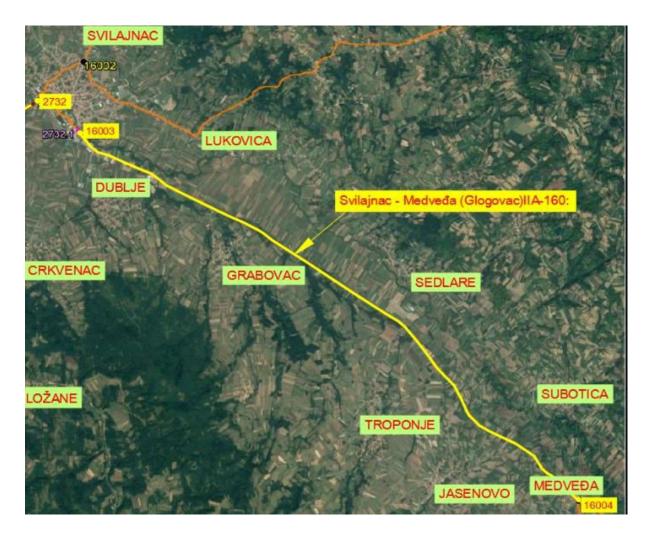
The area is mildly hilly, with an average altitude of 150 m. The section is typically rural and runs through agricultural land.

Planned construction works

Planned construction works on the section include strengthening existing road

construction, reconstruction of the existing waste water collection system from the road, collection and drainage of water from terrain and design of all components that will improve traffic safety conditions.

The width of existing asphalt pavement with marginal strips is within the range of 6.0 m to 6.2 m.



Picture 8. Location of road section Svilajnac – Medvedja

Culverts

In the subject section there are twenty-four existing structures which are classified as culverts due to span length less than 5.0 m. In the following document an overview Table No. 1 is given with structure data.

Beside the structures existing in the roadway section Svilajnac – Medvedja, there are also structures connecting the crossroads on mentioned section and structures entering on private plots.

These structures were processed after setting the parameters of traffic and roads, as well as after processing the hydraulic budget. The constructions are designed by the reinforced concrete with all the necessary elements.

Table 1: List of structures on subject section

Culvert no.	Chainage	Opening	Description
1	46+020.67	Ø1.5m	Concrete tube culvert
2	46+603.58	4.0m	Stone arch with RC expansion framing structure
3	47+791.36	4.5m	Stone arch with RC expansion framing structure
4	48+443.21	Up to 1.0m	Stone arch with RC expansion framing structure
5	48+014.95	-	
6	48+261.57	-	
7	48+940.76	Ø0.8 m	Concrete tube culvert
8	49+247.74	0.8 x 0.3m	Stone arch
9	49+386.67	0.6 x 1.0m	Concrete culvert
10	49+586.82	0.6 x 1.0m	Concrete culvert
11	49+840.53	1.5 – 2.0m	RC AB vaulted culvert with expansion structure
12	50+323.91	3.0m	Stone arch with RC expansion framing structure
13	50+832.46	-	
14	51+226.08	1.0m	Stone arch
15	51+783.36	1.5m	Concrete culvert
16	53+198.21	3.9m	Stone arch with RC expansion framing structure
17	53+903.21	0.6 – 0.8m	Concrete culvert
18	54+161.94	0.6 – 0.8m	Concrete culvert
19	54+478.77	3.4 – 4.0m	Stone arch with RC expansion framing structure
20	55+700.10	0.6 – 0.8m	Concrete culvert
21	55+887.48	4.0 – 5.0m	Stone arch with RC expansion framing structure on both sides
22	56+411.65	0.6 – 0.8m	Concrete culvert
23	56+777.92	-	
24	57+488.20	1.5 – 2.0m	Stone arch with RC expansion framing structure
25	58+289.98	6.0 x 2.5m	Concrete arch on stone supports - bridge
26	58+740.00	3.6 x 1.2m	Concrete culvert on stone walls with double expansion

Table 2: List of objects with planned works

Culvert no.	Chainage	Opening	Description
1	46+020.67	Ø1.5m	Expansion of structure with inflow and outflow culvert head
2	46+603.58	4.0m	Rehabilitation of existing structure and expansion of structure
3	47+791.36	4.5m	Replacement with tube culvert
4	48+443.21	Up to 1.0m	Replacement with tube culvert
5	48+014.95	-	Replacement with tube culvert
6	48+261.57	-	Replacement with tube culvert
7	48+940.76	Ø0.8m	Expansion of structure with inflow and outflow culvert head
8	49+247.74	0.8 x 0.3m	Replacement with tube culvert
9	49+386.67	0.6 x 1.0m	Replacement with tube culvert
10	49+586.82	0.6 x 1.0m	Replacement with tube culvert
11	49+840.53	1.5 – 2.0m	Replacement with new culvert
12	50+323.91	3.0m	Rehabilitation of existing structure and expansion of structure
13	50+832.46	-	Replacement with tube culvert
14	51+226.08	1.0m	Replacement with tube culvert
15	51+783.36	1.5m	Replacement with tube culvert
16	53+198.21	3.9m	Replacement with new culvert
17	53+903.21	0.6 – 0.8m	Replacement with tube culvert
18	54+161.94	0.6 – 0.8m	Replacement with tube culvert
19	54+478.77	3.4 – 4.0m	Replacement with new culvert
20	55+700.10	0.6 – 0.8m	Replacement with tube culvert
21	55+887.48	4.0 – 5.0m	Rehabilitation of existing structure and expansion of structure
22	56+411.65	0.6 – 0.8m	Replacement with tube culvert
23	56+777.92	-	Replacement with tube culvert
24	57+488.20	1.5 – 2.0m	Rehabilitation of existing structure and expansion of structure
25	58+289.98	6.0 x 2.5m	Rehabilitation of existing structure
26	58+740.00	3.6 x 1.2m	Rehabilitation of existing structure

Planned works

Planned works include widening of the road up to 6.5 m out of urban areas and 6.0 m in the settlements, milling of the existing asphalt layer, construction or replacement of waterproofing, construction of asphalt layers, demolition and reconstruction of the curbs, repair or replacement of the bearing paths, repair of fences and quardrails.

Since the road is passing through the suburbs of Svilainac and Medvedia, where there are no sidewalks, construction of sidewalks is planned on approximate length of 2,050 m in Svilajnac and 1,880 m in Medvedja.

The works will be done within the existing road alignment. The project entails no land acquisition.

All the road connections will be regulated. On the earth roads there will be designed flexible pavement structure. At the intersections with the local roads the radiuses will be regulated and necessary berms will be opened for better visibility. Wherever possible, on the main road there will be added left and right turn lanes.

Drainage of the road, in the registered watercourse areas, will be done by placing shallow channels in the bottom of embankment. Water from the road will be collected into channels and taken to waste water treatment systems (oil and fat separators placed close to recipient) wherever necessary.

Rehabilitation works description

According to the design, widening of the road is planned, resolving the problems concerning frequent intersections and connections, construction of satisfactory approaches on to the state road, solving problems of pedestrian's movement and improving traffic safety.

The road works covered by the Project will be carried on the existing road with no change of the alignments. The improvement of the road geometry shall be done, if necessary, with the goal of traffic safety in mind. The project entails no resettlement and land acquisition as defined by OP 4.01, nor long lasting disruptions to the natural environment and human settlements and activities.

The major planned construction works include improvement and widening of the existing road construction with corresponding elements on transversal profile within existing road alignment, reconstruction and remediation of existing drainage system, construction of elements in order to prolong the durability of the construction and improvement of traffic safety.

New intersections in level were designed, too. As well as new solutions for intersections, pedestrian and bicycle paths and bus stops in the settlements were designed, according to requirements of the locals and conditions on site.

Due to widening of the road, extension of existing (not damaged) or construction of new culverts is designed.

Reconstruction and extension of existing drainage systems (construction of ditches and open channels) were done in conformity with the Main Design.

On the locations where road is passing over watercourses, separators will be placed wherever necessary. They will treat water collected from road before it is discharged into the recipient.

Hydraulic characteristics of the elements for drainage along the road will be checked and corrected with the goal to get efficient and controlled system for collection of rainwater.

POLICY, LEGAL AND ADMINISTRATIVE FRAMEWORK

Relevant institutions

The Ministry of Environmental Protection (MEP) is the key institution in Republic of Serbia responsible for formulation and implementation of environmental policy matters.

The other aspects of environmental management related to road rehabilitation projects are dealt with by several other institutions, among which are the Institute for Nature Conservation of Serbia (INCS) and the Institute for Protection of Cultural Monuments Kragujevac (IPCMK), and the Public Enterprise "Roads of Serbia" (PERS).

Existing Serbian legislation

Environmental protection in Republic of Serbia is regulated by several national and municipal laws and regulations. The environmental legislation in force in Serbia is summarized in Appendix III.

EIA procedure in the Republic of Serbia

In the juridical system of the Republic of Serbia, the Environmental Impact Assessment procedure is regulated by the Law on Environmental Impact Assessment ("Official Gazette of RS" Nos. 135/04 and 36/09), which is completely in line with European EIA Directive - 85/337/EEC. Therefore, Environmental Impact Assessment is not required for road rehabilitation projects unless the road is placed within or in the vicinity of natural/cultural protected areas. In that case Project proponent is obliged to submit Request for Decision-making on the necessity of preparation of the Environmental Impact Assessment to the MEP. Depending on the assessment of significance of potential environmental impacts of the project decision shall be made on whether it is necessary to implement full EIA procedure.

Based on the above criteria, EIA is not required for this project.

Relevant International Financing Institutions policies and statements

As the road rehabilitation will be funded by International Financing Institutions (IFIs) the following Lender requirements will need to be applied to any works:

- WB: Operational Policy OP 4.01 Environmental Assessment, which require partial EIA and development of site specific EMPs for projects belonging to Category B;
- EBRD: Environmental and Social Policy 2008;
- EIB: Statement of Environmental and Social Principles and Standards (2008).

Government of Serbia (GoS) regulations do not require separate section-specific EMP to be undertaken for this type of investments (road rehabilitation), while the WB policy requires partial EIA assessment and preparation of site-specific EMP for each section.

BASELINE CONDITIONS ASSESSED DURING ROUTE **SURVEY**

The subject section belongs to the Pomoravski Administrative District located in the central and eastern part of the Republic of Serbia. The section Svilainac (Crkvenac) - Medvedja (Glogovac) in length of 14.774 km belongs to the State road of IIA 160 (old road mark R-103) (Decree on the categorization of state roads, "Official Gazette of RS ", No. 93/2015). It represents a traffic link between the Branicevski and Pomoravski Administrative District, thus the subject section connects the Municipality of Svilajnac and the local community of Medvedja.

There will be no land acquisition as defined by OP 4.12 during the project implementation.

Natural resources and cultural heritage

Directly on the alignment of the State Road IIA 160, Svilajnac-Medvedja, there are no protected natural resources, which could be compromised during the heavy maintenance and elimination of damages at the road.

Under the terms issued by the Institute for Protection of Cultural Monuments Kragujevac there is one cultural monument of high importance for Republic of Serbia:

1. IDIMUM - Archeological site

On the left bank of the Resava River in the village of Medvedja near Despotovac at the sites of Bedem and Popov cair, there are remains of the Roman road station Idimum on the road Via publica (Viminacium - Naissus). Archaeological research of the site was performed between 1960 and 1962 by the National Museum in Belgrade. On that occasion, parts of the Roman road and the remains of architecture were discovered, among which there were thermae and other smaller buildings, and the analysis of the obtained data confirmed that there was a civilian settlement (vicus) next to the road station (mansio). Movable archaeological material revealed that the works on the site were originally undertaken in the end of the 3rd and 4th century.

Works on road rehabilitation are permitted under conditions mentioned in the received document. Conditions mainly apply to the excavation works and discovering of potential new archaeological sites. The Conditions are attached to this document, Appendix V.

Settlements

Section Svilajnac - Medvedja goes through settlements Svilajnac, Grabovac and Medvedja.

Watercourses

The route crosses the following river courses:

- Vodenica trough km 46+603.00;
- Jaruga km 47+791.00;
- Jaruga km 48+443.00;
- Jaruga km 49+840.00;
- Jaruga km 50+323.00;
- Troponje stream km 53 +200.00;
- Vlah Creek km 54+378.00;
- Jasenovac Creek km 55+887.00;
- Lipovac Creek km 57+488.00;
- Brestovac Creek km 58+288.00;
- Buk km 58+740.00.

Air pollution

Within the corridor of road section Svilajnac-Medvedja, there is no point of air pollution.

Noise

Existing state road of the IIA 160 on Svilajnac - Medvedja road direction as linear source is the only dominant noise source.

SUMMARY OF ENVIRONMENTAL IMPACTS

The following table provides a summary of the Environmental Impacts that are predicted for the project

Impact	Significance	Comment
Impacts on land use/ settlements	No impact	There will be no land acquisition as defined by OP 4.12 during the project implementation.
Ground and surface water	Low	Due to low amount of drainage water that can be drained the consequential impact is minimal to negligible
Air quality	Low	Temporary impact
Flora and fauna (protected areas and species)	Negligible	No specific issues
Monuments	Low	Under the terms of the Institute for Protection of Cultural Monuments Kragujevac
Noise	Low	Temporary impact
Access/crossing points of the main road and local roads	Low	The rehabilitation and widening works won't affect existing crossing points. No specific issues
Soil management	Low	With application of waste management measures
Waste	Low	Waste and wastewater management will be prepared and implemented
Cumulative impacts	Moderate/Low	Temporary, rehabilitation works may cause a slight increase of noise levels and air pollutants concentrations only during the works

Road rehabilitation works on Svilajnac - Medvedja section will have only minor impacts on the environment (environmental category B). Most of the impacts are of temporary character and they will disappear after the road rehabilitation works are completed.

The possible temporary impacts as consequence of the construction activities will consist of among others: disruption of current traffic circulation; roadway safety; damage to access roads; noise, waste and dust nuisance; and air emissions; potential impacts of soils and water resources; brief disturbance to biota, and momentary interference to neighbouring settlements through various construction and operation activities.

The Contractor's base and workers' camp can be potential sources of temporary adverse impacts, too.

Air and noise pollution within the residential areas

It is expected that local residents living along the road section will be affected with minor air and noise pollution during rehabilitation works. Local Air quality may experience some low and temporary deterioration due to dust from construction traffic and elevated levels of nitrogen oxide (NOx) and sulfur oxide (SOx) are the primary pollutants. The dust may settle on vegetation, crops, structures and buildings, and may cause some degree of impact.

Noise caused by the rehabilitation works will only be a temporary impact.

Noise barriers should be constructed only if they are determined to be "reasonable" and "feasible".

Section Svilajnac - Medvedja belongs to the state road network. On this section increase in road traffic due to road rehabilitation is not expected. Potentially increasing the speed limits of vehicles on the reconstructed section, shall be defined in the design part dealing with road safety. It will propose the use of active and passive measures for control of vehicle speed.

Potential Water Contamination

Cases of water contamination may occur during the rehabilitation of the project road, mainly spills and water from the equipment maintenance areas and sanitary wastewater effluent from the work camps.

As for the potential pollution during operation, these are limited to accidents only. In such a case, procedures for action in incidental situations, as defined by the Ministry of Interior and in the Law on Water, will apply.

Fuel and lubricant spills can, in most instances, occur at the Contractor's work camp and workshops while maintaining and washing equipment and work vehicles. The oily wash-water should be passed through an adequately sized, gravity oil separator prior to discharge.

Should spills occur in any part of the road, to mitigate the problem the Contractor should use absorbing materials, such as absorbent mats/fabrics, or sand and scrape off the contaminated soils and dispose them in an approved facility, in accordance

with the Law on Water ("Official Gazette of RS", Nos. 30/10, 93/12, 101/2016 and 95/2018).

Works over bridges will be done with special care in order to avoid water pollution. Prior to start of any activity, Method Statements for proposed works have to be submitted for approval to the Supervisor. Each Method Statement will have environmental protection section and proposed measures to be undertaken in order to avoid incidents and accidents during construction works. Mitigation measures or monitoring activities related to possible river contamination are part of this EMP.

Potential Cumulative impacts

The works execution on the heavy maintenance of the state road IIA 160, on the section Svilajnac – Medvedja could have some cumulative impacts.

Possible cumulative negative impacts, as a result of construction activities, are temporary and consist of:

- obstruction of traffic,
- road safety,
- damages on the access roads,
- noise, dust, waste and air pollution,
- potential impacts on soil and water resources.
- short term impact on flora and fauna and surrounding settlements.

The construction out of site activities involving work in the guarry and asphalt bases, which, if not managed properly, can cause local adverse impacts.

Temporary offices and ancillary facilities can be potential sources of short-term negative impacts.

However, they, due to their intensity, origin and duration are assessed to be moderate.

EMP focuses more on the stage of works involving heavy maintenance, because it is going to become a part of Contractor's obligations. Activities related to the regular maintenance of the section will not be in focus of the Environmental Management Plan but will only be presented in order to create an overall view.

ENVIRONMENTAL MANAGEMENT PLAN

Possible environmental impacts will be mitigated during the rehabilitation and operation phases, as summarized in the Environmental Management Plan.

A basic assessment of the proposed road reconstruction and rehabilitation project concluded that the rehabilitation impacts will be minor, reversible and manageable if the mitigation measures as given in the EMP are properly implemented.

The EMP (Appendix I and Appendix II) is based on the type, extent and duration of the identified environmental impacts. PERS (the Implementing entity) will guide the design and supervision engineers and Contractors on the implementation of the EMP.

A. MITIGATION PLAN

The findings and proposed mitigation measures have been compiled into an Environmental Mitigation Plan (Appendix I). It summarizes all the anticipated environmental impacts and its associated mitigation measures during the design, rehabilitation and operational phases. It makes reference to the preconditions obtained from the relevant institution (Institute for Nature Conservation of Serbia and Institute for Protection of Cultural Monuments Kragujevac), law and contract documents, approximate location, time-frame, and the responsibility for its implementation and supervision.

Contractor Management

The recommendations and proposed mitigation measures, as shown in Appendix I are Contractors obligations. Mitigation measures are incorporated in the design and rehabilitation practices and as such their costs will be included in the rehabilitation cost.

The EMP is part of the work program and will be carried out by the Contractor's qualified and experienced staff who will be responsible for the environmental compliance requirements of the EMP. The Contractor and its sub-contractors will fully comply with Republic of Serbia national laws, EU standards and Lender requirements.

The Contractor will use this document to cost his compliance with the EMP. It is the Contractor's obligation to include the cost of the implementation of environmental mitigation measures in his overall cost.

The Contractor will be required to provide a short statement that confirms that:

- the EMP conditions have been included into the bid price,
- the Contractor has a qualified and an experienced person on the Contractor 's team who will be responsible for the environmental compliance requirements of the EMP.
- The Contractor and its sub-contractors will comply with Republic of Serbia national laws, EU standards and Lender requirements.

Design Phase

In the Republic of Serbia, the Environmental Impact Assessment procedure is regulated by the Law on Environmental Impact Assessment ("Official Gazette of RS" Nos. 135/04 and 36/09). According to it, the Environmental Impact Assessment is not required for road rehabilitation projects if the route of the road is not within natural/cultural protected areas.

Since there are no protected natural or cultural areas which could be endangered by the road rehabilitation works on this road section, EIA is not required.

Mitigation measures are part of the design and rehabilitation practices and the costs will be included in the rehabilitation cost.

In addition to addressing the requirements of the Mitigation Plan the following additional activities were carried out during the design phase in preparation for the implementation of the project:

The Site Organization Plan will be prepared as part of Detailed design. Design phase will take place just after the appraisal of the project. Site organization study incorporates environmental, health and safety protection measures that meet legal and Lender requirements (including the measures defined in the EMP and Safety Labour Management Plan).

As for the potential pollution during operation, these are limited to accidents only. In such a case, procedures for action in incidental situations, as defined by the Ministry of Interior and in the Law on Water, will apply.

The plan will contain basic requirements related to:

- 1. Provision of materials needed for construction works;
- 2. Material transport;
- 3. Material placement;
- 4. Site organization;
- 5. Waste management;
- 6. The right-of-way arrangement (cleaning).

Technical specifications for work execution which address environmental, health and safety protection measures:

- 1. Preliminary works;
- 2. Rehabilitation works on the existing pavement;
- 3. Earth works:
- 4. Drainage;
- 5. Traffic signage systems.

Supervisor and PERS are responsible for checking that the EMP requirements are incorporated into the site organization.

Site Organization Plan

The plan of construction site organization is the responsibility of the Contractor. He is obligated to prepare it and to comply with it during construction period.

Preparation of site and establishment of Contractors facilities: this applies to all of the Contractors facilities, storage areas, workshops, labour camps (when needed), concrete batching areas, asphalt plant, etc. The location and development of the Contractors facilities will be approved by the Resident Engineer (RE).

Taking into account the conditions of nature protection, legislation and environmental requirements when choosing a location and organization of the construction site, as well as during the actual construction, it must comply with the following:

- 1. Temporary location for storing the necessary construction and other material and equipment is needed to be located outside the area with tall vegetation and river flooding zones, and limited only to the duration of the works execution:
- 2. 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 construction. Restrict storage / disposal in coastal area of smaller watercourses of a temporary nature, as well as on agricultural land;
- 3. Provide after completion of the works that all areas which are in any way degraded by construction works should be as soon as possible remedied;
- 4. During the works execution, strictly observe the planned alignment and corridor around it, in such a way that the earthworks and the use of machines would not leave consequences on the environment;
- 5. When performing the construction works on sections of the road which is next to the river, it should be predicted to maximize preservation of the coastline and coastal vegetation, wild species and their habitats;
- 6. In the zone of transition of the road (bridge) over the watercourses, where the earthworks are necessary, the project/design should foresee the usage of stone and other natural materials and largely avoid concreting of coast and riverbeds surrounding the watercourses;
- 7. Prohibit the servicing of machinery and vehicles along the road. In case of accidental spills of fuel, oils / lubricants and other harmful substances, the surface must be repaired and remedied;
- 8. The respective construction works on the road section which pass through the settlements should be executed only during the day (07.00hrs - 19.00hrs) because of the potential impact of noise from construction equipment and vehicles:
- 9. Protective fences and pedestrian crossings and passages are to be located at designated places where it is most appropriate, especially near existing settlements:

- 10. During construction, along the whole road section maximum level of communal hygiene should be maintained, with predefined locations for containers to be used for temporary storage of waste;
- 11. The size of contractor's facilities is limited to absolute minimum to reduce unnecessary removal of vegetation;
- 12. The contractor's facilities are to be surrounded with an adequate security fence:
- 13. The sites are properly drained. Paved areas, including vehicle parking areas, workshops and fuel storage areas are to be drained to an oil and water separator:
- 14. Sanitary waste and grey waters are treated before release into surface water systems, in accordance with the Law on Water ("Official Gazette of RS", Nos. 30/10, 93/12, 101/2016 and 95/2018);
- 15. Fuel storage areas are not located within 20m of a water course;
- 16. 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;
- 17. All workshops would be provided with oil and water separators;
- 18. The Contractor must have trained personnel who are competent in fuel handling procedures and for cleaning up accidental spills;
- 19. All waste oil, oil and fuel filters will be collected and disposed of in secure landfill areas. At the closure of the site, all contaminated soil will be excavated, removed and replaced with fresh topsoil;
- 20. Cleared material is to be piled into manageable sized heaps according to disposal or re-use requirements:
- 21. 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;
- 22. Apply soil conservation protection methodology to susceptible areas to prevent / minimize storm water runoff carrying eroded materials off-site;
- 23. Avoid excavation and operating machinery in wet ground conditions;
- 24. 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;
- 25. 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.

PERS is obliged to check through the engaged consultant for monitoring/supervision whether the requirements of the environmental management plan and management safety organization plan are implemented at the site.

Rehabilitation Phase Mobilization - Contractor EMP

During the rehabilitation, the Contractor will work according to the requirements of the Contractor's Environmental Plan (CEP) (based on the EMP) which will be prepared by the Contractor and approved by PERS. Supervision and monitoring of the CEP activities will be undertaken as follows:

- I. The Contractor has the initial responsibility for preparing and implementing the CEP as per the works contract.
- The Resident Engineer (RE) will direct the Contractor with regard to II. compliance with the CEP.
- PERS will carry out independent monitoring of the work and can issue Defect Ш Notices to the RE who will transmit these to the Contractor.
- IV. The Contractor will have his own representative on site – the Site Engineer (SE) who will be responsible for implementing the contract and complying with the CEP.

Contractor prepares CEP before commencing the work. The Contractor will prepare a Contractor's Environmental Plan (CEP) that addresses the conditions of the rehabilitation in the EMP and include measures to comply with national legalization and Lender requirements. The CEP will detail how the Contractor will address the activities in the rehabilitation section of the EMP. The Contractor will submit the CEP to the PERS for approval.

Following the approval of the CEP, the Contractor together with the person on the Contractor's staff who will be responsible for supervising the CEP will meet the Project Supervision Consultant for Environment (PSC) on-site. If the plan is appropriate and implementable, the PSC will advise the PERS that the Contractor can now commence work.

Rehabilitation works

Preparation of site and establishment of Contractor's facilities: This applies to all of the Contractor's facilities, storage areas, workshops, labour camps (when needed), concrete batching areas, asphalt plant, etc.

The location and development of the Contractor's facilities will be approved by the RE.

Locations will be selected so that:

- 1. Do not interfere with the environment and social well-being of the surrounding communities regarding noise, dust, vibration;
- 2. The size of contractor's facilities is limited to absolute minimum to reduce unnecessary removal of vegetation;
- 3. Sanitary waste and waste waters are treated before release into surface water systems, in accordance with the Law on Water ("Official Gazette of RS", Nos. 30/10, 93/12, 101/2016 and 95/2018);
- 4. 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;
- 5. Fuel storage areas are not located within 20m of a water course. The contractor's facilities are to be contained within an adequate security fence;
- 6. Clearing of sites and removal and disposal of vegetation is minimized;
- 7. Wherever possible limit area to be cleared and avoid excessive machine disturbance of the topsoil;

- 8. Cleared material is to be piled into manageable sized heaps according to disposal or re-use requirements:
- 9. Prevention of soil erosion on construction site. The contractor will be responsible for ensuring that the erosion is contained by soil conservation protection methods.

The Contractor will:

- 1. Limit the extent of excavation to reduce soil erosion potential;
- 2. Apply soil conservation protection methodology to susceptible areas to prevent / minimize storm water runoff carrying eroded materials off-site;
- 3. Avoid excavation and operating machinery in wet ground conditions:
- 4. 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;
- 5. All workshops would be provided with oil and water separators;
- 6. The Contractor must have trained personnel who are competent in fuel handling procedures and for cleaning up accidental spills;
- 7. All waste oil, oil and fuel filters will be collected and disposed of in secure landfill areas. At the closure of the site, all contaminated soil will be excavated, removed and replaced with fresh topsoil.

Environmental Management during Rehabilitation works

Considering all identified impacts, it becomes essential for the Contractor to prepare and later conscientiously implement the EMP throughout the duration of the project to ensure compliance with legislative and Lender requirements.

The emphasis of the EMP shall be on the following:

- 1. Layout of the work camp and details of the proposed measures to address environmental impacts resulting from its installation. Description and layout of equipment maintenance areas and lubricant and fuel storage facilities including distance from water sources/bodies;
- 2. Sewage and waste water management plan for provision of sanitary latrines and proper sewage collection and disposal system to prevent pollution of watercourses:
- 3. A plan (grievances mechanism and organizational structure) detailing the means by which local people and other project affected persons (PAP) can raise grievances arising from the rehabilitation process and how these will be addressed (e. g. through dialogues, consultations, etc.) (see Appendix IV for the Project grievance mechanism);
- 4. Soil Management Plan detailing measures to be undertaken to minimize effects of wind and water erosion on stockpiles, measures to minimize loss of fertility of topsoil, time-frames, haul routes and disposal site:
- 5. Dust management plan which shall include schedule for water spraying on access roads 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 rehabilitation, when dust may be generated, the Contractor will monitor the work-site conditions and apply dust control measures, which

- include reducing construction traffic movements and spraying water on exposed areas:
- 6. A plan indicating the location of the proposed material extraction site as well as rehabilitation measures to be implemented for the borrow areas and access roads upon project completion;
- 7. Waste and waste water management plan. 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 approved landfill sites for safe disposal. 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", Nos. 36/09, 88/10, 14/16 and 95/2018). The CEP should cover all aspects of waste management, including implementation of practice standards such as reduce, re-use and recycle. It should specify final disposal alignments for all waste and demonstrate compliance to national legislation and best practice procedures on waste management. 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 shall keep one copy of the form and the driver shall 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;
- 8. Oil and fuel storage management plan. The CEP should cover all procedures for storage, transportation and usage of oils and fuels, refueling 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. Refueling 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 "continued training" and following any significant incident;
- 9. In-river works management plan. The CEP should cover procedures and plans for safeguarding aquatic habitats and fish during in-river work and will complement the Construction Method Statements;
- 10. Camp management plan. The CEP should contain procedures for establishing and operating construction camps in order to safeguard nearby communities and environmental resources;
- 11.Emergency response plan. The CEP should 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;
- 12. Noise all equipment is licensed and approved in accordance with EU standards. This applies to all machinery, vehicles and construction sites

where noise and vibration may affect susceptible receptors. The Contractor will be responsible for ensuring that noise and vibration does not affect the adjacent communities, in accordance with the Law on Noise protection ("Official Gazette of RS", Nos. 36/09 and 88/10). While it is unlikely that noise and vibration 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;

13. Rehabilitation Plan: Clearance and rehabilitation of construction sites and removal of Contractor's septage facilities. It is Contractor 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 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", Nos. 36/09, 88/10, 14/16 and 95/2018). 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", Nos. 135/04, 36/09, 72/09, 43/11, 14/16, 76/2018 and 95/2018). Should the Contractor fail to remove the waste, the PERS is entitled to withhold payment and arrange the clean-up and deduct the cost of the clean-up and administrative charges from the final payment.

Safety

Safety and Hazard Assessment:

Before commencing work, the Contractor will be required to identify potential hazards. Provisions for emergency responses are to be included in the Contractor site safety plan which is to include nomination of a person who will be immediately contacted should an accident occur. The site safety plan will be submitted to the PSC for approval one week prior to starting work.

- 1. The Contractor will be required to keep the site free of drugs and alcohol;
- 2. The Contractor site safety plan will include provision for a safe work environment and provide safety measures and protective equipment to all workers including; hand, head, eye and ear protection and safety footwear;
- 3. The site safety plan will include provision for first aid facilities on-site and employ a trained first aid person, in accordance with the Law on Safety and Health at work ("Official Gazette of RS", Nos. 101/05, 91/15 and 113/2017);
- 4. The Contractor will provide supplies of water, portable toilets and wash water to the workers:
- 5. Safety and Labour Management Plan (SLMP) prepared by the PERS has to ensure H&S provisions during rehabilitation works;

6. Contractor is obliged to perform all project activities by respecting SLMP recommendations and all Serbian laws and regulations which are covering H&S issues

The PERS and Contractor together have responsibility for reporting and investigating incidents.

Community safety from increased vehicle movements must be considered. This applies to all vehicles and particularly to haul trucks that pass-through settlements. The Contractor shall ensure that all vehicles which pass through villages are operated safely without endangering these communities.

The Contractor shall ensure that:

- 1. All trucks and equipment are maintained in a safe operating condition;
- 2. All drivers and machinery operators are trained and act responsibly (to be stipulated in the Contractor site safety plan);
- 3. All loads are secured and all loads with potential dust generating materials (e. g. excavated soil and sand) will be covered with tarpaulins;
- 4. The Contractor will immediately remove any drivers that ignore any of the community safety requirements:
- 5. Speed limits will be observed.

Prior to commencement of construction activities/site works, all of the above plans will be submitted by the Contractor to the Sector for Investments within the PERS for approval.

Following the completion of works a Site restoration will take place. It's Contractor obligation to restore location of the project as it was at beginning of the project.

Operational Phase

People Safety: During operation, according to the assessment performed within the design phase, road safety features will include:

- 1. Measures to slow the traffic; e. g. decreasing of speed at selected places (e.g. settlements, schools, markets, etc.);
- 2. Dust suppression sealing;
- 3. Improvements in road signage and pavement markings, and
- 4. Attention to road accident black spots.

Road Maintenance:

- Routine maintenance (grading, grass cutting, drain clearing, and pothole patching and shoulder repairs, together with regular control and maintenance of drainage structures and retention) will be undertaken on regular basis;
- Seasonal maintenance such as flood repairs, emergency maintenance to reinstate roads after major failures, and the regular upkeep of safety features and road signs will be undertaken as necessary;

- Major maintenance that include resurfacing and repairs are typically scheduled over periods of several years.

B. MONITORING PLAN

A monitoring plan for the proposed Project (Appendix II) has been prepared. The main components of the monitoring plans include:

- Environmental issue to be monitored and the means of verification;
- Specific areas, locations and parameters to be monitored;
- Applicable standards and criteria;
- Monitoring of noise levels near residential areas;
- Monitoring of the procurement of materials (checks that valid permits are in place):
- Duration and frequency and estimated monitoring costs; and
- Institutional responsibilities for monitoring and supervision.

A field monitoring checklist has been prepared based on the EMP and monitoring plan (Appendix II). The field monitoring checklist will be used by the supervising field engineers. The signed checklists will be provided to the PERS who will be responsible for the follow-up and compliance reporting.

The PERS will maintain a Complaints Database, which will contain all the information on complaints or grievances received from the communities or other stakeholders. This would include: the type of complaint, location, time, actions to address these complaints, and final outcome.

C. INSTITUTIONAL IMPLEMENTATION AND REPORTING **ARRANGEMENTS**

Project Implementation

PERS is the institution responsible for implementing the Project and will be responsible for the implementation and compliance with the EMP and Monitoring Plan. Day-to-day implementation and compliance will be the task of PSC.

Prior to the commencement of works PERS submitted to the Bank for its approval this section specific Environmental Management Plan.

The Contractor will provide "Zero monitoring" results prior to commencement of earth works, during its own mobilization phase.

To ensure that the proposed mitigation measures will be carried out by the Contractors during the construction stage, the Project Proponent undertook the following:

- I. Clearly set out in the tender and contract documents the Contractor's obligation to prepare CEP and undertake environmental mitigation measures as specified in the Environmental Mitigation Plan in Appendix I (appended to Contract specifications);
- II. No compensation for the costs of the required environmental mitigation measures and monitoring activities in the form of the particular item in the Bill of Quantities (BoQ) shall be given to the Contractor, except for the water quality analysis and noise measurement. The Contractor had to include these costs in the other items of the BoQ. Real expenditures of water quality analysis and noise measurement in scope defined by the Bidding Documents (BD) and the Contract shall be compensated to the Contractor in the form of the particular item in the BoQ.

For non-compliance with requested environmental mitigation measures and monitoring activities the Contractor shall suffer specific liquidated damages in a form of demerit points. Demerit points are provided as a measure that should stimulate the Contractor to carry out his obligations in an organized and timely way and to perform his duty meeting high standards even though those tasks does not appear to be of a serious nature. Demerit points simultaneously have two meanings – numeric and monetary.

Each demerit point has associated monetary value which represents permanent payments reduction for determined noncompliance of the contracted obligations.

Number of received demerit points has a cumulative effect. If during the Contract the Contractor receives more than certain number of demerit points specified in the BDs and the Contract, the Contractor will for a period of 2 years not be allowed to compete for any other PERS works contract.

Also, if the Contractor is awarded over a specified number of demerit points, the Employer has a right to terminate the Contract. Monetary value of each demerit points as well as limits for other possible actions by the Employer is specified in the BDs and the Contract.

Application of explained two measures - compensation for specific costs and penalties for noncompliance - should assure implementation of all requested environmental mitigation measures and monitoring activities;

The Contractor must be explicitly requested to recruit an environmental III. specialist. The Contractor will be responsible for the implementation of environmental mitigation measures during construction and shall employ an environmental specialist who will supervise implementation of the Contractor's environmental responsibilities and coordinate with the PERS and MoCTI. The Contractor, in coordination with PERS, shall set-up a grievance mechanism that will address any complaints during project implementation. During project implementation, the PERS shall monitor the compliance of the Contractor with the EMP provisions. It is proposed that the project supervision consultants (PSC) employ environmental specialist (with engineering/environmental management background) assist the environmental supervision.

Upon Project completion, PERS will be in charge of the operation and maintenance of the Project Road. Routine and random monitoring will be undertaken as scheduled in the monitoring plan.

Contractor will make a proposal for environmental protection, including safety of persons associated with the works and the public, during a pre-construction period within the Environmental Management Plan. This proposal will be reviewed by PERS in order to obtain the "no objection" to the proposal's recommendations. In this regard, attention will be given to:

- Taking all reasonable steps to protect the environment on and off site and avoid damage or nuisance to persons or property arising from its operations,
- Maintaining conditions of safety for all persons entitled to be on site and
- Provision of all lights, guards, fencing, warning signs, traffic control and watching for protection of the works and other property and for the safety and convenience of the public.

During the implementation of this Project, the public has the right to participate either directly or indirectly, which introduces the possibility to present its interests and opinions in the process of decision making. In order to reach the best option during this process, PERS disclosed this EMP document to public, including local municipalities and all relevant non-government organisations (See Appendix VI). Draft EMP document was also published on PERS web site (www.putevi-srbije.rs). process of public consultations. all relevant the (recommendations, opinions etc.) were collected from the public, including all environmental issues related to this project. Opinions and suggestions are incorporated within the final version of EMP document.

During rehabilitation works, a public liaison officer, named by the Contractor will establish communication with local residents affected by the project and will be responsible to inform them about all project activities, especially related to environmental impacts of the project and planed mitigation measures.

Reporting Arrangements

Public consultations and presentation of EMP were held and detailed Report on Public Consultation process is presented within the Appendix VI of this EMP document.

The Contractor will provide quarterly reports to the PERS which will document the environmental mitigation and protection measures, together with prescribed monitoring activities carried out during the reporting period. Contractor will take care on environment quality according to the mitigation and monitoring plan and will report to the PERS.

If any kind of accident or endangerment of environment happens, reporting will be immediate. The Contractor will inform the Project Manager and local authorities about accidents immediately after they happen. If the Project Manager is not responding to the call, the Contractor will inform PERS about the accident.

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 IV and hard copies will be made available at community centres.

Appendix I **MITIGATION PLAN**

MITIGATION PLAN

Dhaca		Mitigating measure	Respo	onsibility	Comments
Phase	Issue	Contractor	Supervision		
PRE- CONSTRUCTION		Main Design Phase			
	Design in conflict with EMP	Contractor is obliged to obtain preconditions from Institutions dealing with environmental issues in order to avoid environmental risks during rehabilitation works	Designer	Technical control / PERS	
	Selected location for contractor's site facilities not appropriate	It has to be approved by the PERS. Locations will be selected so that they do not interfere with the environment and social well-being of the surrounding communities (noise, dust. vibration, etc.), limited size of contractor's facilities, reduce unnecessary clearing of vegetation, production of waste. Waste waters will be treated before being released into surface water systems Paved areas, including vehicle parking areas, workshops and fuel storage areas to be equipped with oil and water separator, and fuel storage areas to be located more than 20m from a water course. Avoid excessive machine disturbance of the topsoil. Prevention of soil erosion on construction site. Limit the extent of excavation to reduce soil erosion potential. Avoid excavation and operating machinery in wet ground conditions.	Designer / Contractor	Technical control / PERS	

Phase	Issue Mitigating measure	Mitiactica	Respo	onsibility	Comments
Pilase	issue	Mitigating measure	Contractor	Supervision	
	Road safety issues associated with pedestrian crossing	Plan for safe and adequate pedestrian crossing facilities equipped with ramps and structures that allow the use of wheelchairs, pushcarts, bicycles and prams.	Designer	Technical Control / PERS	
CONSTRUCTION		Site Induction			
	Safety on the site	All workers and visitors to site shall pass Health& Safety and Environment training and be instructed in the need and use of Personal protective equipment (PPE).	Contractor H&S and environmental officer	Supervisor	
	Stakeholder engagement	Details of the proposed road works, access points and safety features will be disclosed in the locality of the planned works. Feedback from local stakeholders will be sought and recorded. Evidence of how feedback has been considered in the final design will be recorded.	PERS and Main Design Consultant	Main Design Technical Control PERS	
	 compliance with legislative Site organization procession in Sewage and septions Project grievance Soil Management Dust management A plan indicating the 	c management, mechanism, Plan,	Contractor	Supervisor/ PERS	

Dhasa	Mitiroting managers	Respo	onsibility	Comments	
Phase	Issue	Mitigating measure	Contractor	Supervision	
	areas and access roads upon project completion, Waste and wastewater management plan in accordance with the Law on Waste management ("Official Gazette of RS", Nos. 36/09, 88/10, 14/16 and 95/2018), Oil and fuel storage management plan, In-river works management plan, Camp management plan. Emergency response plan. Rehabilitation Plan Safety and Hazard Assessment Safety and Labour Management Plan (SLMP).				
CONSTRUCTION		Material Supply			
	Asphalt base dust, fumes, health effects and work safety, ecosystem disturbances	Utilization of existing asphalt bases, requirement of official approval or valid operation license	Asphalt plant	Asphalt plant	Supplier from the offer / approved supplier
	Stone quarry dust, fumes, health effects and work safety, ecosystem disturbances	Utilization of existing quarries, requirement of official approval or valid operation license	Contractor / Stone quarry	Supervisor	
	Sand and gravel borrow- pits; riverbed and water quality disturbances, ecosystem disturbances	Utilization of existing excavation sites or purchase of material from registered producers, Requirement of official approval or valid operation license	Contractor / sand and gravel Excavation management	Supervisor	

Phase	Issue	Midianating management	Respo	onsibility	Comments
Pilase	issue	Mitigating measure	Contractor	Supervision	
	Concrete base dust, fumes, health effects and work safety, ecosystem disturbances	Utilization of existing concrete base or purchase of concrete slabs from registered dealers, material should include appropriate quality attestation	Contractor / concrete base management	Supervisor	
CONSTRUCTION	Т	ransport of Materials			
	Asphalt: dust, fumes	All trucks are to be covered	Contractor	Supervisor	
	Stone: dust	Wet or covered truck load	Contractor / truck driver	Supervisor	
	Sand and gravel: dust	Wet or covered truck load	Contractor / truck driver	Supervisor	
	Cement, concrete	Remove fresh concrete that has spilled from the in-transit mixers from transport roads within 6 hours	Contractor / truck driver	Supervisor	
	Traffic management noise, vehicle exhaust, road congestion	Respect working hours (preferably 8 AM- 4PM); use alternative routes to minimize use of main roads; Adequate temporary road signalization.	Contractor / Transport manager; Truck operator	Supervisor	
	Chance of Archaeological finds	In case of chance finds Contractor is obliged to stop the works immediately and inform the Institute for Protection of Cultural Monuments and PERS about it.	Contractor	Supervisor	

Phase	leave	Mitigating massure	Respo	onsibility	Comments
Pilase	Issue	Mitigating measure	Contractor	Supervision	
CONSTRUCTION		Construction Site			
	Negative impact of noise on workers and local community	Limit activities to daily working hours (no works between 8 PM and 7 AM) or conduct them during the cited period, but with consent of the residents and management; Utilization of construction machinery with noise abatement equipment; ensure maximum functionality of machinery by regular (periodic) or extraordinary technical check-ups of vehicles and equipment;	Contractor	Supervisor	
	Dust	Implement measures to avoid/minimize dust emissions, wetting /spraying the site, accesses, materials stockpiles and during loading/unloading activities; covering of vehicles carrying dusty materials; wheel washing/spraying of vehicles; speed limit of vehicles, site cleaning	Contractor	Supervisor	
	Vibrations	Limit activities to daily working hours (no works between 8 PM and 7 AM) or conduct them during the cited period, but with consent of the residents and management	Contractor	Supervisor	
	Traffic disruption during construction activity	Traffic management plan with measures to redirect traffic that are easily seen or easy to follow; include traffic police assistance if needed. Construction Traffic Management Plan will establish speed limits for construction vehicles	Contractor	Construction Contractor	

Dhasa	laawa.	Mitiactica	Respo	Comments	
Phase	Issue	Mitigating measure	Contractor	Supervision	
		and organize traffic to avoid as much as possible populated areas. Local residents will be kept informed of planned works.			
	Reduced access to roadside activities	Provide alternative access to roadside activities at all times	Construction Contractor	Construction Contractor	
	Vehicle and pedestrian safety when there is no construction activity			Construction Contractor	
	Water and soil pollution from improper material storage, management and usage	Organize and cover material storage areas; isolate concrete, asphalt and other works from watercourse by using sealed formwork or covers; isolate areas for washing the concrete and asphalt trucks and other equipment from watercourse by selecting areas for washing that are not freely draining directly into watercourse. Operate construction site in a way to reduce the risk of generating sediments and wastewater that may pollute local soils or receiving water bodies (considering situations such as including storm water runoff, wastewater generated from facilities on site such as wheel washing facility). Soil Management Plan shall be prepared for the controlled removal of top soil, storage and reuse. Prevent sediments flowing into surface waters and drainage channels by localized control measures (e. g. sediment fences, check dams, mulch barriers, rock groins, or geotextil barriers,	Construction	Construction Contractor	

Dhasa	I	Balti meting managemen	Respo	onsibility	Comments
Phase	Issue	Mitigating measure	Contractor	Supervision	
		sediment basins), contouring to optimize slope angle and steepness, Prevent wind erosion via fencing, covering, etc.			
	Water and soil pollution from improper disposal of waste materials	Dispose waste material at location protected from washing out, should be marked in the site plan; if not on site, then at authorized landfill.	Construction Contractor	Construction Contractor	
	Water and soil pollution from improper disposal of waste materials	Storage of wastes according to international best practice (IFC, EHS General Guidelines). Apply additional measures for storage of hazardous wastes (such as use of secondary containment, access restriction, provision of PPE etc.) as necessary to prevent harm to construction staff, environment and local community. The labelling and use of containers provided for waste collection and storage areas for different kinds of wastes (hazardous and non-hazardous).	Construction Contractor	Construction Contractor	
	Potential contamination of soil and water from improper maintenance and fuelling of equipment	Apply best engineering practice in safe storage and handling of lubricants, fuel and solvents by secured storage; ensure proper loading of fuel and maintenance of equipment; collect all waste and dispose to permitted waste recycling facility	Construction Contractor	Construction Contractor	
	Water and soil pollution from improper disposal of waste materials	Transport of waste in marked vehicles designed to the type of waste to minimize the risk of release of materials (hazardous and non-hazardous) and windblown debris. Training of drivers in handling and disposal of their cargo and the documentation	Construction Contractor	Construction Contractor	

Dhasa	lanua .	Miti mating management	Respo	Comments	
Phase	Issue	Mitigating measure	Contractor	Supervision	
		of the transport describing the nature of the waste and its degree of hazard.			
	Workers safety	Provide workers with safety instructions and protective equipment; safe organization of bypassing traffic.	Construction Contractor	Construction Contractor	
	Landscaping	Along the road, take measures to gradually restore vegetation by covering crops with native endemic species and monitor effectiveness. Avoid invasive species and species that are determined as allergens. In places where the initial planting has failed, plant replacement will be done.	Construction Contractor	Construction Contractor	
	Culture Heritage Protection	If Contractor finds archaeological sites or objects, the Contractor is obliged to suspend works and notify the competent Institute for the protection of cultural monuments and take measures to not destroy it, not damage it and save it in place and in a position in which it was discovered. At the archaeological site, the presence of the experts of the competent Institute is obligatory when performing all earth works; The Investor is obliged to notify the Institute, 15 days before commencement of works; If during earthworks archaeological material arises, all costs of protection and conservation are at the expense of the Investor.	Construction Contractor	Construction Contractor/PERS ICH	

Phase	Issue	Mitigating magazine	Respo	onsibility	Comments
Pilase	issue	Mitigating measure	Contractor	Supervision	
		Monuments Kragujevac to the project is necessary.			
OPERATIONAL		Maintenance			
	Noise disturbance to human and animal population and workers	Limit activities to daylight working hours (not between 8 p.m. and 7 a.m. or as agreed with public); equipment operating with noise mufflers installed.	Road maintenance company	Road maintenance company	To be specified in maintenance contract documents - Technical Specifications for realization of maintenance works
	Possible air, water and soil pollution dust, vehicle exhaust, fuel and lubricants spills	Apply best engineering practice in safe storage and handling of lubricants, fuel and solvents by secured storage; ensure proper loading of fuel and maintenance of equipment; collect all waste and dispose in line with the Law on Waste management; organize and cover material storage areas; isolate asphalt from watercourse by using sealed formwork; selecting areas for washing that are not free draining directly or indirectly into watercourses; dispose waste material at location protected from washing out.	Road maintenance company	Road maintenance company	

Phase	Issue	Mitigating macause	Respo	Comments	
Pilase	issue	Mitigating measure	Contractor	Supervision	
	Vibrations	Limit activities to daylight working hours (between 8 p.m. and 7 a.m. or as agreed with public and authorities)	Road maintenance company	Road maintenance company	
	Workers safety	Provide safety measures for the workers along with the appropriate equipment; safe organization through alternative roads and appropriate traffic signalization. All workers and visitors to site shall be given a Health, Safety and Environment Instruction and instructed on the need to use of PPE.	Road maintenance company	Road maintenance company	
	Maintenance	Regularly maintain curbs; mow and maintain the grass and dispose of it in a landfill; regularly clean drainage structures (drains) and dispose of the waste material in a registered landfill; regular cleaning of road surface, filling of holes, binders and cracks; the remains of asphalt originating from works on hole filling should be transported and disposed of in an appropriate landfill for construction materials; conduct regular and timely interventions of cleaning road surface and surrounding road structures in case of a traffic accident or tanker and other trucks overturning; conduct repairs	Road maintenance company	Road maintenance company	
	Increased vehicle speed	Install traffic signs for speed limit	Road maintenance company	Road maintenance company	To be specified in TS for maintenance works

Phase	Issue	Midiantina	Respo	Comments	
Filase	issue	Mitigating measure	Contractor	Supervision	
	Possible air, water and soil pollution dust, vehicle exhaust, fuel and lubricants spills	Ensure proper handling of lubricants, fuel and solvents by secured storage; ensure proper loading of fuel and maintenance of equipment; collect all waste and properly dispose; properly organize and cover material storage areas; isolate asphalt from watercourse by using sealed formwork; selecting areas for washing that are not free draining directly or indirectly into watercourse; dispose waste material at appropriate location protected from washing out	Road maintenance company	Road maintenance company	
	Erosion, rock fall, hazardous conditions	Install warning signs (rock fall, landslide, wet or slippery conditions, dangerous curve, animal or pedestrian crossing, school, slow moving vehicles, merge), reflective markers to indicate steep edge or convex mirrors to see oncoming traffic at blind curves; locate warnings at points considered necessary by good engineering practice, or as agreed in writing with public and authorities.	Road maintenance company	Road maintenance company	

Appendix II **MONITORING PLAN**

MONITORING PLAN

Phase paramete	What is the parameter to	parameter to parameter	How the parameter should be monitored? / type	should be When the parameter should	Why the parameter should be	Institutional responsibility
	be monitored?	should be monitored?	of monitoring equipment	measurement or continuous)	monitored? (optional)	Operate
CONSTRUCTION			Material Supply			
Asphalt plant	Possession of official approval or valid operating license	Asphalt plant	Inspection / supervising engineer	Before work begins	Assura compliance	Plant Operator
Stone quarry	Possession of official approval or valid operating license	Stone quarry	Inspection / supervising engineer	Before work begins	Assure compliance with environment, health and safety requirements	Quarry Operator
Sand and gravel borrow pit	Possession of official approval or valid operating license	Sand and gravel borrow pit or separation	Inspection / supervising engineer	Before work begins		Borrow pit or Separation Operator

Phase	What is the parameter to be monitored?	Where the parameter should be monitored?	How the parameter should be monitored? / type of monitoring equipment	When the parameter should be monitored? (frequency of	Why the parameter should be	Institutional responsibility
				measurement or continuous)	monitored? (optional)	Operate
CONSTRUCTION			Material Transpo	rt		
Asphalt	Truck load covered	Job site	Supervising engineer	Unannounced inspections during work, at least once a week		
Stone	truck load covered or wetted	Job site	Supervising engineer	Unannounced inspections during work, at least once a week	Assure compliance of performance with environment, health and safety requirements	Supervision Contractor
Sand and gravel	truck load covered or wetted	Job site	Supervision	Unannounced inspections during work, at least once a week	Assure compliance of performance with environment, health and safety requirements	Supervisor/ Contractor
Traffic management	hours and routes selected	Job site	Supervision	Unannounced inspections during work, at least once a week	Assure compliance of performance with environment, health and safety requirements and enable as little as possible disruption to traffic	Supervisor / Contractor

Phase	What is the parameter to be	Where the parameter should be monitored?	How the parameter should be monitored? / type of monitoring equipment	When the parameter should be monitored? (frequency of	Why the parameter should be	Institutional responsibility
	monitored?			measurement or continuous)	monitored? (optional)	Operate
CONSTRUCTION			Construction Site			
Noise disturbance to workers and neighbouring population	Noise levels	Job site; nearest homes of settlements along the site	Equipment – hand- held analyser with application software	Once at the beginning of the project, on half basis, and on complaint. If the results of monitoring are not satisfactory, monitoring should be conducted on monthly basis	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Contractor
Water and soil pollution from improper material storage, management and usage	Water and soil quality (suspended solids, oils, pH value, conductivity)	Watercourses	Unannounced sampling; analysis at accredited laboratory with necessary equipment	Monitoring should be done prior construction (on a referent point upstream of construction site) and once during rehabilitation works. If the results of monitoring are not satisfactory, monitoring should be repeated on monthly basis till the completion of works on the location	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Contractor
Dust	Air pollution (solid particles)	At and near job site	Inspection and visual observation	Unannounced inspections during material delivery and construction	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Supervision / Contractor

Phase	What is the parameter to be	Where the parameter should be monitored?	How the parameter should be monitored? / type of monitoring equipment	When the parameter should be monitored? (frequency of	Why the parameter should be	Institutional responsibility
	monitored?			measurement or continuous)	monitored? (optional)	Operate
Vibrations	Limited time of activities	Job site	Supervision	Unannounced inspections during work and on complaint	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Supervision Contractor
Traffic disruption during construction activity	Existence of traffic management plan; traffic patterns	At and near job site	Inspection; observation	Before works start; once per week at peak and non-peak periods	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Supervision Contractor
Reduced access to roadside activities	Provided alternative access	Job site	Supervision	Random checks at least once per week during construction activities	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Supervision Contractor

Phase	What is the parameter to be monitored?	Where the parameter should be monitored?	How the parameter should be monitored? / type of monitoring equipment	How When the parameter should Why the parameter should be monitored? (frequency of should beforing measurement or continuous) monitored? (optional)		Institutional responsibility Operate
Vehicle and pedestrian safety when there is no construction activity	Visibility and appropriateness	At and near job site	observation	Random checks at least once per week in the evening	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Supervision Contractor
Workers safety	protective equipment; organization of bypassing traffic	Job site	inspection	Unannounced inspections during work.	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	Supervision Contractor
OPERATIONAL			Maintenance			
Noise disturbance to local residents and workers	Noise levels	Job site; nearest homes	Equipment – hand- held analyser with application software	Unannounced inspections during maintenance activities and on complaint	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	PERS

Phase	What is the parameter to be monitored?	Where the parameter should be monitored?	How the parameter should be monitored? / type of monitoring equipment	When the parameter should be monitored? (frequency of measurement or continuous)	Why the parameter should be monitored? (optional)	Institutional responsibility Operate
Vibrations	Limited time of activities	Job site	Supervision	Unannounced inspections during maintenance activities and on complaint	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	PERS
Workers safety	protective equipment; organization of bypassing traffic	Job site	Inspection	Unannounced inspections during maintenance activities and on complaint	Assure compliance of performance with environment, health and safety requirements and enable as little disruption to traffic as it is possible	PERS
OPERATIONAL			Road Safety			
Increased vehicle speed	Condition of traffic signs; vehicle speed	Road section included in project	Visual observation; speed detectors	During maintenance activities; unannounced	Enable safe and economical traffic flow	Maintenance Contractor; Traffic Police
Erosion, rock fall, hazardous conditions	Condition of hazard signs	Road section included in project	Visual observation	During maintenance activities	Enable safe and economical traffic flow	Maintenance Contractor

Proposed Template - additional data that should be incorporated into monitoring plans:

1. General		
Is the project materially compliant with all relevant Performance Requirements (taking account of agreed action plans, exemptions or derogations)?	Yes □ No □	If no, please provide details of any material non-compliances:
Is the project materially compliant with all applicable environmental and social laws and regulations?	Yes □ No □	If no, please provide details of any material non-compliances:
Have there been any accidents or incidents that have caused damage to the environment, brought about injuries or fatalities, affected project labour or local communities, affected cultural property, or created liabilities for the company?	Yes □ No □	If yes, please describe, including details of actions to repair and prevent reoccurrence:
Have there been any changes to environment, social, labour or health and safety laws or regulations that have materially affected the company?	Yes □ No □	If yes, please describe:
How many inspections did you receive from the environmental authorities during the reporting period?	Number:	Please provide details of these visits, including number and nature of any violations found:
How many inspections did you receive from the health and safety authorities during the reporting period?	Number:	Please provide details of these visits, including number and nature of any violations found:
How many inspections did you receive from the labour authorities during the reporting period?	Number:	Please provide details of these visits, including number and nature of any violations found:

Have these visits resulted in any penalties, fines and/or corrective action plans?	Yes □ No □	If yes, please describe, including status of implementing corrective actions to address any violations found:				
Has the Company engaged any Contractors for project-related work in the reporting period?	Yes □ No □	If yes, please state for which types of work, and how the company has monitored the compliance of Contractors with Performance Requirements and the Environmental and Social Action Plan:				
Were any of the violations stated above the responsibility of Contractors?	Yes □ No □	If yes, please provide details, including how the Company is ensuring that corrective actions are implemented by the Contractor?				
Have any operations been reduced, temporarily suspended or closed down due to environmental, health, safety or labour reasons?	Yes □ No □	If yes, please describe:				
Please describe any environment or social programs, initiatives or sub-projects undertaking during the reporting period to improve the company's environmental or social performance and/or management systems:						
Please indicate the level of associated expenditure (capital expenditure and operating expenditure), and whether this relates to the requirements of the Environmental and Social Action Plan, or to any other initiative:						

Appendix III **LEGISLATION**

REGULATION AND REQUIREMENTS

This section sets out the regulatory context regarding consultation and public disclosure in Serbia as it relates to this Project. Specific reference is made to relevant Serbian legislation, regional regulatory instruments, and relevant EBRD requirements, the World Bank Policy on Access to Information and WB OP 4.01 Environmental Assessment.

In the juridical system of the Republic of Serbia, the Environmental Impact Assessment procedure is regulated by the Law on Environmental Impact Assessment ("Official Gazette of RS" Nos. 135/04 and 36/09), which is completely in line with European EIA Directive (85/337/EEC, 97/11/EC, 2003/35/EC and COM 2009/378).

The main laws and regulations currently in force in Republic of Serbia which are relevant to the environmental protection during planning, design, construction and operating of this Project are listed below:

- 1. Law on Planning and Construction ("Official Gazette of RS" Nos. 72/2009, 81/2009, 64/2010, 24/2011, 42/2013, 145/2014, 83/2018 and 31/2019),
- 2. Law on Nature Protection ("Official Gazette of RS", Nos. 36/09, 88/10, 91/10, 14/16 and 95/2018).
- 3. Law on Environmental Protection ("Official Gazette of RS" Nos. 135/04, 36/09, 72/09, 43/11, 14/16, 76/2018 and 95/2018),
- 4. Law on EIA ("Official Gazette of RS" Nos. 135/2004 and 36/2009),
- 5. Law on Strategic EIA ("Official Gazette of RS" Nos. 135/2004 and 88/2010),
- 6. Law on Waste management ("Official Gazette of RS", Nos. 36/09, 88/10, 14/16 and 95/2018),
- 7. Law on Noise protection ("Official Gazette of RS", Nos. 36/09 and 88/10),
- 8. Law on Water ("Official Gazette of RS", Nos. 30/10, 93/12, 101/2016 and 95/2018),
- 9. Law on Forest ("Official Gazette of RS", Nos. 30/10, 93/12, 89/15 and 95/2018).
- 10. Law on Air protection ("Official Gazette of RS", Nos. 36/09 and 10/13),
- 11.Law on Safety and Health at Work ("Official Gazette of RS", Nos. 101/05, 91/15 and 113/2017),
- 12. Agricultural Land Law, ("Official Gazette of RS", Nos. 62/06, 65/08, 41/09, 112/2015, 80/2017 and 95/2018).

Regulations established on the basis of the Law on EIA include the following:

- 1. Decree on establishing the List of Projects for which the Impact Assessment is mandatory and the List of projects for which the EIA can be requested ("Official Gazette of RS" No. 114/08),
- 2. Rulebook on the contents of requests for the necessity of Impact Assessment and on the contents of requests for specification of scope and contents of the EIA Study ("Official Gazette of RS" No. 69/05).

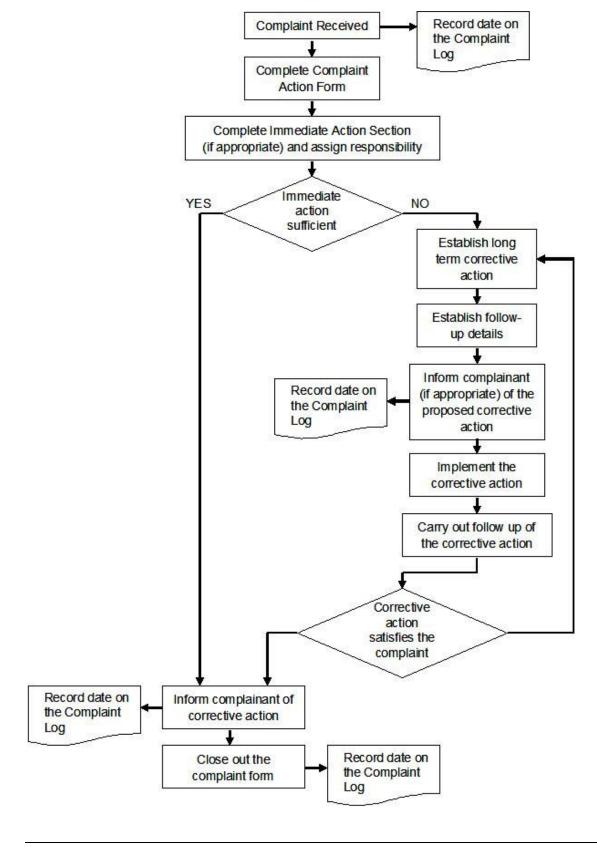
Other relevant Serbian legislation:

- 1. Law on Confirmation of convention on information disclosure, public involvement in process of decision making and legal protection in the environmental area ("Official Gazette of RS", No. 38/09),
- 1. Law on Roads ("Official Gazette of RS", Nos. 41/2018 and 95/2018).

Appendix IV **GRIEVANCE MECHANISM**

Grievance mechanism and form

Flowchart of Complaints/Grievance Procedure



Grievance Reference Number (to be filled with number):							
Contact Details		Name:					
		Address:					
		Tel:					
		e-mail:					
			· - · · · · · · · · · · · · · · · · · ·				
How would you pref		By post	By phone	B	y e-m	ıail	
be contacted? Please	e tick						
box							
Name and the identific	cation i	information (from	identity card).			
Details of your grieva	ance.	Please describe	the problem	ns, who	it ha	appened to,	
when, where and how	many	times, as relevan	t				
,	,	,					
What is your suggeste	ed resc	olution for the grie	vance?				
, 00		· ·					
How to submit this	By Po	ost to: [tbc]					
form to / [name of	By ha	and: please drop t	his form at [t	bc]			
concessionaire]	Ву є	e-mail: Please	email your	grieva	nce,	suggested	
	resolu	ution and preferre	d contact de	tails to:	[tbc]		
Signature:		<u> </u>		Date:			
	1				1		

Appendix V

DECISIONS OF THE COMPETENT INSTITUTIONS

Appendix V - 1

TABORGA SELENCIA VEROSTRIBAKA KZISTPS A FASZIFSAN

Comit 438-00/4 Jana, 24.4

Завод за заштиту споменика културе Крагујевац, на основу члана 27, 99. став2. тачка 1, 100. став 1. и 104. Закона о културним добрима ("Сл. Гл. РС "бр. 71/94) и члана 131. Закона о општем управном поступку ("Сл. Лист СРЈ" бр. 33/97), а на захтев предузећа Јавно Предузеће "ПУТЕВИ СРБИЈЕ", Булевар краља Александра 282, 11050 Београд 22, Сектор за инвестиције, Влајковићева 19а, Београд, бр. 438-02/1 дана 11.04.2017.год, доноси

1. Idimum - археолошки локалитет

I. Услови и мере техничке заштите, за израду техничке документације пројекта Појачаног одржавања деонице државног пута ПА реда 160 (стара ознака: регионални пут Р-103), деоница Свилајнац – Медвеlја (Деспотовац), могу се предузети на основу следећих услова:

Мере заштите археолошког локалитета:

- 1. На археолошком локалитету обавезно је присуство стручњака надлежног Завода приликом извођења свих земљаних радова.
- 2. Трошкови надзора над извођењем радова падају на терет
- 3. Инвеститор је дужан да обавести Завод за заштиту споменика културе у Крагујевцу 15 дана пре почетка планираних радова.
- 4. Уколико се током земљаних радова наиђе на археолошки материјал трошкови археолошких истраживања, конзервације откривених налаза, заштите и чувања евентуалних непокретних археолошких остатака падају на терет инвеститора, под условима које прописује надлежни Завод за заштиту споменика културе.
- 5. На осталом простору је обавезно поштовање чл. 109. Закона о културним добрима (Сл. гласник РС бр. 71/94) који гласи:

"Ако се у току извођења радова наиђе на археолошка налазишта или археолошке предмете, извођач радова је дужан да одмах, без одлагања, прекипе радове и обавести надлежан Завод за заштиту споменика културе 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"

П. Пројекат и документација морају бити израђени у свему у складу са издатим условима из тачке І овог решења.

III. По изради пројекта и документације у складу са овим условима, подносилац захтева је дужан да на исте прибави сагласност Запода за заштиту споменика културе у Крагујевцу.

IV. Ово реглење не ослобађа подносноца захтева обавезе прибављања и других услова, дозвола и сагласности предвиђених прописима о планирању и уређењу простора и насеља и изградњи објеката.

V. Ово решење важи годину дана од дана издавања.

VI. Жалба не одлаже извршење овог решења.

Образложење

Дана 03.04.2017. год. Заводу за заштиту споменика културе Крагујсвац достављен је захтев предузећа Јавио Предузеће "ПУТЕВИ СРБИЈЕ", Булевар краља Александра 282, 11050 Београд 22, Сектор за инвестиције, Влајковићева 19а, Београд. Захтевом се траже услови потребни за израду техничке документације, Главии пројекат, који обухвата радове ојачања постојеће коловозне конструкције, (на појединим местима до дубине 50-60 цм од постојског коловоза), у постојећим габаритима коловозне конструкције са постојећим и сапираним системом одводњавања.

Почетак деонице је на изласку из Свилајица према Деспотовцу, код раскренице за Црквенац, а крај деонице је у атару села Медвеђа на месту укрштања државних путева ПА реда бр.160 и бр.185 (раскреница за Јагодипу).

Накоп изласка на терен и увида у постојећу документацију утврдили смо да у оквиру планираног захвата се налази Утврђено културно добро, архсолошки локалитет "Idimum " у атару села Медвеђа, римско војно упориште и цивилпо пасеље, датовано у период I -IV в.н.е., и као такво представља веома значајан културно-историјски локалитет, на основу чега су и утврђени услови за извођење мера техничке заштите и других радова из диспозитива овог решења.

ПРАВНА ПОУКА: Против овог решења дозвољена је жалба Републичком заводу за заштиту споменика културе, Београд у року од 15 дана од дана његовог достављања. Жалба не задржава извршење овог решења.

Александра Стефановић, дипл. ист. уметности (теруслявић). Спежана Станковић, дипл. инж. арх (Спекана Ворђевић, дипл. археолог (Доруг фова).

Предраг Вукашиновић, дипл. прав.

ДОСТАВИТИ.

-Подносноцу захтева

-архиви завода

-досијеу

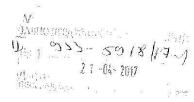
ДИРЕКТОР Марко Грковић

Appendix V - 2

РепубликаСрбија ЗАВОД ЗА ЗАШТИТУ ПРИРОДЕ СРБИЈЕ

03 Број: 020-728/З

Датум: 20 04 2014 Нови Београд, Др Ивана Рибара бр. 91 Тел: +381 11/2093-802; 2093-803 Факс: + 381 11/2093-867



Завод за заштиту природе Србије, на основу члана 9. Закона о заштити природе ("Службени гласник РС", бр. 36/2009, 88/2010, 91/2010-исправка и 14/2016) и члана 192. став 1. Закона о општем управном поступку ("Службени лист СРЈ", бр. 33/1997 и 31/2001 и "Службени гласник РС", бр. 30/2010), ноступајући по захтеву ЈП "Путеви Србије", за израду техничке документације пројскта Појачаног одржавање деонице државног пута IIA реда 160 (стара ознака: регионални пут P-103), деопица Свилајнац-Медвеђа, општина Деспотовац, доноси

РЕШЕЊЕ

- 1. Предметно подручје се не налази унутар заштићеног подручја за које је спроведен или покрепут поступак заштите, не налази се у просторном обухвату еколошке мреже пити у простору евидентираног природног добра. Сходно томе, издају сс следећи услови заштите природе:
 - 1) Дефинисати да се одводњавање саобраћајнице врши гравитационим отицањем површинских вода и по потреби изградьом отворених канала за прихват површинских вода;
 - 2) За воде које настају спирањем са коловоза и оптерећене су уљима и другим нафтним дериватима мора се предвидсти изградња таложника и сепаратора масти и уља. Пре упуштања у реципијент или канализацију, обавезна је контрола њиховог квалитета;
 - 3) Као коловозни застор користити материјале који могу, са аспекта заштите, обезбедити смањење нивоа букс и вибрација и омогућити ефикасно дренирање воде са површине коловоза;
 - 4) Дефинисати ужу и ширу зону утицаја саобраћајнице на животну средину (посебно са аспекта очувања пољопривредног земљишта и производње хране одговарајућег квалитета), на основу тога утврдити мере и препоруке за коришћење земљишта;
 - 5) Дуж саобрћајнице предвидети заштитно зеленило формирати травњаке, уз примену ниског зеленила, чиме би се омогућила визуелна заштита контактних зона и естетско обликовање простора;
 - 6) Препоручује се примена претежно аутохтопих, брзорастућих врста, које имају фитонцидно и бактерицидно дејство и изражене сстстске вредности. Избегавати врсте кој су детерминисане као алергене (тоноле и сл.), као и инвазивне (багрем, кисело дрво и др.);
 - 7) Прибавити сагласност надлежних институција за извођење радова који изискују евентуалну сечу одраслих, вредних примерака депдрофлоре, како би се уклањање вегетације свело на најмању меру;
 - 8) Утврдити обавезу санације или рекултивације свих деградираних површина. Уз сагласпост надлежне комуналне службе, предвидети локације на којима ће се трајно депоновати неискоришћени геолошки грађевински и остали материјал пастао предметним радовима;

- 9) Предвидети постављање специјалних судова за сакупљање отпада на одговарајућим бетонским површинама;
- 10) Предвидети све мере заштите природе у акцидентним ситуацијама уз обавезу обавещтавања надлежних инспекцијских служби и установа;
- 11) Уколико се током радова наиђе на геолошко-налсонтолошке или минералошко-петролоніке објекте, за које се претпоставља да имају својство природног добра, извођач радова је дужан да у року од осам дана обавести министарство падлежно за послове заштите животне ерсдине, односно предузме све мере како се природно добро не би опитетило до доласка овлашћеног лица;
- 2. Ово решење не ослобађа подносноца захтева да прибави и друге услове, дозволе и сагласности предвиђене позитивним прописима.
- За све друге радовс/активности на предметном подручју или промене пројектис документације, потребно је поднети пови захтев.
- Уколико подносилац захтева у року од две године од дана достављања овог решења не отпочне радовс 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 2, тачка 5 Правилника о висини и начину обрачуна и наплате таксе за издавање акта о условима заштите природе ("Службени гласник РС", бр. 73/2011, 106/2013). Подносилац захтева је дужан да наведену таксу уплати у корист рачуна Завода у року од 5 дана од дана достављања предрачуна.

Образложење

JП "Путеви Србије", ул. Булсвар краља Александра 282, 11050 Београд, обратило сс захтевом II бр. 953-5918 од 23.03.2017. године за издавање услова заштите природе за израду техничке документације пројекта Појачаног одржавање деопице државног пута ПА реда 160 (стара ознака: регионални пут Р-103), деоница Свилајнац-Медвеђа, општина Деспотовац.

На основу достављеног захтева и документације подносноца захтева утврђено је да је предметни Пројскат саставни део пројекта рехабилитације путева и унапређења безбедности саобраћаја на мрежи државних путева, који је подршка међународних финансијских институција Националном програму рехабилитације државних путева Републике Србије. Први циљ је израда техничке документације у виду Главног пројекта појачаног одржавања којим се обезбеђује повећање употребне вредности и трајности пута, унапређење безбедности саобраћаја, укључење захтева локалне заједнице и поштовање захтева заштите животне средине. Почетак деонице је на изласку из Свилајнца према Деспотовцу код раскренице за Црквенац, а крај деонице је у селу Медвеђа на месту укрштања државних путева ПА реда 160 и бр. 185 (раскреница за Јагодину). Планирани радови обухватају ојачање постојеће коловозне конструкције у постојећим габаритима, са постојећим и сапираним системом одводњавања уз пројектовање свих елемената који подржавају трајност радова и унапређују систем безбедности саобраћаја и у потпуности је регулисана одредбама (чл. 57-60) Закона о јавним путевима Србијс природе ("Службени гласник РС", бр. 101/2005, 88/2010, 123/2007 и 104/2013).

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

Законски основ за доношење решења је Закон о заштити природе ("Службени гласник РС", бр. 36/2009, 88/2010, 91/2010 и 14/2016).

Израда техничке документације пројекта Појачаног одржавање деонице државног пута IIA реда 160 (стара ознака: регионални пут Р-103), деоница Свилајпац-Медвеђа, општина Деспотовац, може се реализовати под условима дефинисаним овим решењем, јер је процењено да неће угрозити основне природис вредности подручја.

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

Подносилац захтева је ослобођен од плаћања таксе у складу са чланом 18. Закона о републичким административним таксама ("Службени гласник РС", бр. 43/2003, 51/2003, 61/2005, 5/2009, 54/2009, 50/2011, 93/2012 и 45/2015).

Упутство и правном средству: Против овог решења може се изјавити жалба министарству надлежном за послове заштите животне средине у року од 15 дапа од дана пријема решења. Жалба се предаје Заводу за заштиту природе Србије уз доказ о уплати Републичке административне таксе у износу од 440,00 динара на текући рачун бр. 840-7/12221843-57, познв на број 59013 по моделу 97.

Достављено:

- Подносноцу захтева
- Архива х 2

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Републички завод за заштиту споменика културе - Београд Institute for the Protection of Cultural Monuments of Serbia - Belgrade

 Радослава Грујића 11
 Radoslava Grujića 11

 11118 Београд
 11118 Belgrade

 Србија
 Serbia

 Тел. (011) 24 54 786
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33-02-707 Датум / Date: дагул. Број/Ref. Д Olay Mh/Mh

ЈАВНО ПРЕДУЗЕЋЕ "ПУТЕВИ СРБИЈЕ"

Сектор за инвестиције
Госпођа Гордана Суботички Ђорђевић, извршни директор за инвестиције

БЕОГРАД Влајковићева 19а

Предмет: Деопице државног пута IБ реда бр. 27 и IIA реда 160

Поштована госпођо Ђорђевић,

Вашим дописима бр. 953-5909 и 953-5919 од 23. марта 2017. доставили стс захтеве за издавање услова за израду техничке документације пројеката Појачаног одржавања деоница државног пута IБ реда бр. 27 Марковац-Свилајнац и IIA реда 160 Свилајнац Медвеђа (Деспотовац).

Обавсштавамо вас да се на наведеним деоницама не налазс културна добра од изузстног значаја и тиме овај захтев није у надлежности Републичког завода за заштиту споменика културе - Београд, а допис прослеђујемо Заводу за заштиту споменика културе Крагујевац на даљи поступак.

С поштовањем,

Обрађивач Мија Ђорђевић, археолог Maypromit

Доставити: - Наслову,

- Завод за заштиту споменика културе Крагујевац

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Република Србија **МИНИСТАРСТВО** ЗАШТИТЕ ЖИВОТНЕ СРЕДИНЕ

Број: 011-00-0101/2017-02 Датум: 03.08.2017. Београд



"Сапутник - М" д.о.о. Сомбор -Мериди<mark>јанпроје</mark>кт -Огранак Нови Сад

> Ул. Светог Ђорђа 6 25000 Сомбор

Предмет: Допис у вези са захтевом за давање мишљења

Министарству заштите животне средине обратили сте се Захтевом за давање мишљења о потреби покрстања процедуре у складу са Законом о процени утицаја животну средину ("Сл.гласник РС", бр. 135/04, 36/09) за пројекат појачаног одржавања државног пута Па-160 (стара ознака пута Р-103) деоница: Свилајнац - Медвеђа (Глоговац), дужина 14.774 км, стационажа: км 44+057 - км58+831, заведен под бројем 011-00-0101/2017-02 од 31.07.2017 године.

У допису наводите да је предметни пројекат обухваћен и интегралним "Пројектом Рехабилитације путева и безбедности саобраћаја ("Road Renabilitation and Safety Project - RRSP"), који се финансира из међународног кредита. Пројекат подразумева грађевинско – путарске радове у оквиру трасе већ постојећег пута. Предметна деоница припада Поморавском управном округу лоцираном у средишњем и источном делу Републике Србије. Предметна деоница представља део саобраћајне везе између Браничевског и Поморавског управног округа, при чему предметна деоница повезује општину Свилајнац и месну заједницу Медвеђа.

Планирано је да се Главним пројектом за појачано одржавање путева обезбеди: повећање употребне вредности пута, трајност пута, побољшање безбедности саобраћаја, укључивање захтева локалне заједнице и усаглашеност са захтевима заштите животне средине у највећој могућој мери под датим условима просторног ограничења и ограничења који произилазе из типа дозвољених грађевинских и саобраћајних интервенција.

Сва решења приликом израде пројектне документације - Главни пројекат за појачано одржавање пута, морају бити у оквиру постојећег путног појаса (укупна ширина коловоза је 6.5 м), без експропијације нових површина земљишта. За рехабилитацију предметне саобраћајнице употребили би се уобичајсни грађевински материјали за ову врсту радова (агрегат, цемент, бетонско гвожђе, итд.). Побољшање предметне деонице захтева коришћење енергената, укључујући електричну енергију и течна горива. Радови ће обухватити постојећу коловозну конструкцију, у постојећем путном профилу, са постојећим и санираним системом одводњавања уз пројектовање свих елемената који продужавају трајност радова и унапређују систем безбедности саобраћаја.

На предметној деоници нема евидентираних станишта нити заштићених биљних и животињских врста. Гакође нема регистрованих рекреативних центара. У близини пројектне деонице једино се палази непокретно културно добро "Idimum" - археолошки локалитет. У току извођења радова неће се произвести никакви материјали који загађују животну средину и који би могли доспети у земљиште и подземне воде.

Грађевинске машине ће током радова производити буку повишеног нивоа али се тај утицај сматра привременим и неће представљати трајну сметњу за становништво у окружсњу. Потенцијално загађење ваздуха ће се огледати у појави прашине током извођења радова и транспорта материјала као и кроз привремено загађење ваздуха услед рада мотора грађевинских машина

Уз Захтев је приложена и додатна документација:

- Закон о јавним путевима ("Сл. гласник РС" 101/2005), којим су дефинисане врсте радова, технички услови и начин извођења радова;
- Кратак опис пројекта;
- Решење о условима заштите природе бр. 020-728/3 од 20.04.2017. које је издао Завод за заштиту природе
- Решење бр. 438-0/4 од 24.04.2017. које је издао Завод за заштиту споменика културе у Крагујевцу;
- Графички прилог прегледна карта;

На освову увида у захтев обавештавамо вас о следећем:

- У складу са члановима 3. и 4. Закона о процени утицаја животну средину ("Сл.гласник РС", бр. 135/04, 36/09) предмет процене утицаја на животну средину су пројекти који се планирају и изводе, промене технологије, реконструкције, проширење капацитета који могу имати значајан утицај на животну средину, а притом су садржани у Уредби 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.114/08).
- Пројекат појачаног одржавања пута не представља предмет процене утицаја на животну средину и није сврстан у Листама пројеката из поменуте Уредбе, па сагласно томе носилац пројекта није у обавези да отпочне процедуру процене утицаја на животну средину у складу са чланом 8. Закона о процени утицаја на животну средину.
- Носилац пројекта је обавези да се приликом извођења радова на појачаном одржавању предметне саобраћајнице у потпуности придржава услова и мера заштите животне средине из 1) Решења о условима заштите природе и заштите животне средине бр. 020-728/3 од 20.04.2017 које је издао Завод за заштиту природс Србије, и 2) Решења са условима и мерама заштите непокрстних културних добара бр. 438-0/4 од 24.04.2017. годинс које је издао Завод за заштиту споменика културе у Крагујевцу.

ПОМОЪНИК МИНИСТРА по решењу 6 овлашћењу бр. 021-01-5/2/2017-01

> од 26.07.2017. Александар Весић

Лоставити:

- Наслову
- Архиви

Appendix VI

REPORT ON PUBLIC CONSULTATIONS

1. BACKGROUND

The Republic of Serbia has applied for financing towards the costs of the Road Rehabilitation and Safety Project (RRSP). International financing institutions are: World Bank, European Investment Bank and European Bank for Reconstruction and Development.

The Republic of Serbia plans to invest part of the funds for the project of heavy maintenance (road rehabilitation – upgrading) of the State road IIA 160, Section: Svilajnac - Medvedja, from km 44+057.00 to km 58+860.00.

This Environmental Management Plan (EMP) has been prepared for heavy maintenance (road rehabilitation - upgrading) of subject road section, to ensure application of the good environmental practice and document compliance with the requirements of the International Financing Institutions (IFIs) which finance Serbian Road Rehabilitation and Safety Project (RRSP).

Company SAPUTNIK-M, as partner in Joint Venture AIC PROGETTI, SAPUTNIK-M & ENCODE which is preparing the subject design, has prepared a draft document, the Environmental Management Plan, for the rehabilitation of the State road IIA 160, Section: Svilajnac - Medvedja, from km 44+057.00 to km 58+860.00, which has been submitted for pre-final review on April 8th, 2018. The World Bank approved the document with minor remarks that needs to be corrected immediately and the procedure launched for scheduling public consultations.

The Environmental Management Plan was created with the aim to ensure the implementation of best practices in accordance with the requirements of international financial institutions in environmental protection, which are funding the Road Rehabilitation and Safety Project.

Creating an Environmental Management Plan was carried out through study and research in the field, including consultations with representatives of the regional and local participants. The Environmental Management Plan is based primarily on field studies conducted in July, August and September 2017.

On April 16th 2018 the Public Enterprise "Roads of Serbia" was approved by the World Bank to start the public consultation process of the Environmental Management Plan.

Public Enterprise "Roads of Serbia" has started a public consultation and disclosure of the document on May 10th, 2018.

PE "Roads of Serbia" on May 10th, 2018 issued a call for a public discussion to the authorities, organizations and the public concerned for the Environmental Management Plan for the rehabilitation works on the State road IIA 160, Section: Svilajnac - Medvedja, from km 44+057.00 to km 58+860.00. Public auditorium, organizations and other interested parties were invited to participate in the public debate on the pre-final document of the Environmental Management Plan. Before its advertising in newspapers, Environmental Management Plan had been submitted to the Municipalities of Svilajnac and Despotovac. Municipal representatives informed the public through local media and municipality website about the time and place of the public discussion. The call was also published on the website of PE "Roads of Serbia".

Access to a document was provided at the following addresses:

- The headquarters of PE "Roads of Serbia", Sector for 0 Investments, Vlajkoviceva 19a, Belgrade, on the first floor, every weekday from 11:00 AM to 01:00 PM, within 14 days from May 10th, 2018.
- On the premises of the Municipality of Svilajnac, Svetog Save 0 Street, No. 102, on weekdays from 9:00 AM to 12:00, within 14 days from May 10th, 2018. Contact person: Nebojsa Petrovic B.Sc.C.E
- On the premises of the Municipality of Despotovac, Milosava 0 Zdravkovica Resavca Street No. 4, on weekdays from 9:00 AM to 12:00, within 14 days from May 10th, 2018. Contact person: Nikola Milosevic, Bachelor of Economics
- On the PE "Roads of Serbia" website: www.putevi-srbije.rs 0
- Announcement of public consultation published in daily 0 newspaper "Politika" on May 14th, 2018.

Public discussion and presentation of the Environmental Management Plan was held in the premises of local community of Svilajnac on May 25th 2018 with the beginning at noon.

2. REPORT ON PUBLIC CONSULTATIONS, SVILAJNAC MAY 25th, 2018

In accordance with OP 4.01 World Bank, PE "Roads of Serbia" has prepared a document - Environmental Management Plan for work on rehabilitation of State road IIA 160, Section: Svilajnac - Medvedja, from km 44+057.00 to km 58+860.00.

On May 14th, 2018 the invitation to interested parties was published in the daily newspaper "Politika", inviting the public auditorium, authorities and institutions to inspect the proposed rehabilitation works and environmental impact with present mitigation measures and monitoring. Prior to announcement in the newspaper, all the documents were submitted to the Municipality of Svilainac and Despotovac and made publicly available on the premises, and also placed on the website of PE "Roads of Serbia".

Representatives of the local self-government informed the public about the time and place of the public consultations. Publication of the pre-final document of the Environmental Management Plan ended on May 25th 2018, when the public meeting was held in the Municipality of Svilajnac.



Photo 1: Public discussion in Svilajnac, May 25th, 2018



Photo 2: Public discussion in Svilajnac, May 25th, 2018



Photo 3: Public discussion in Svilajnac, May 25th, 2018



Photo 4: Public discussion in Svilajnac, May 25th, 2018

Public discussion in Svilajnac was attended by 13 people, of which 10 persons were from municipality of Svilajnac and 3 persons from Despotovac.

Public consultations were attended by representatives of the local departments of urbanism, agriculture and finance of the municipality of Svilajnac and of the department of traffic of the Municipality of Despotovac.

The meeting began as planned at 12:00. A representative of the Saputnik-M, road designer and environmental specialist Aleksandar Kitanovic, B.Sc.C.E., presented in detail the Environmental Management Plan to the participants.

During the public discussion, there were no complaints regarding the environmental issues.

During the public consultation, the following questions were raised:

Q1 (Katarina Krunic, Municipality of Svilajnac): Are the sidewalks included in the section design?

Answer: The sidewalks are designed on the subject section:

- At the beginning of the section, on both sides of the carriageway in the peri-urban area of Svilajnac,
- in the zone of the intersection with the local road leading to Jasenovo and
- in Medvedja, where the sidewalks are designed through the settlement, on both sides of the carriageway.

Q2 (Marko Pavlovic from the Department of Agriculture of Svilajnac Municipality): Is it possible to use asphalt removed by cold-grinding for the needs of the local community?

Answer: Cold grinding asphalt can be used in rehabilitation of the earth roads, in shoulder rehabilitation. It is necessary to ask the Investor whether they are ready to provide cold grinding asphalt for the needs of local self-government.

Q3 (Nikola Milosevic from municipality of Despotovac): For the settlement of Medvedja, there is a traffic regulation project approved by PE "Roads of Serbia", is the Designer aware of this project?

Answer: The investor did not inform the Designer that there is an approved traffic regulation project for the settlement of Medvedja. The Designer requested an approved version of the project that needs to be implemented in the main enhanced maintenance project.

The issues raised during the consultations related to the preliminary design solution. Aleksandar Kitanovic, the responsible designer and developer of environmental management plan, explained that the preliminary project solution would be presented separately and that the citizens would have the opportunity to react to the answers to these and other issues related to the project.

The public discussion ended at 1:45 PM local time.

3. PARTICIPANTS LIST

СПИСАК ПРИСУТНИХ НА ЈАВНИМ КОНСУЛТАЦИЈАМА

Предмет:	em:	Место одржавања КОНСУЛТАЦИЈА И ЈАВНЕ ПРЕЗЕНТАЦИЈЕ	ЗЕНТАЦИЛЕ:
План	План управљања заштитом животне средине	ЛІ "Путеви Србије" – Сектор за инвестиције, Влајковићева 19а, Београд	ije, Влајковићева 19a, Београд
-	Јавне консултације -	Општина Свилајнац, Светог саве 102	
Пут: Пројев ДРЖ. Деон км 44	Пут: државни пут II А реда, бр. 160 Пројекат: Главни пројекат појачаног одржавања ДРЖАВНОГ ПУТА IIА 160 Деоница: Свилајинац - Медвеђа км 44+057.00- км 58+860.00, дужина: 14.803 км	Термин јавних консултација: 08. мај 2018. до 25. мај 2018. Место и термин јавне презентације: Општина Свилајнац, Светог саве 102, 35210 Свилајнац	мај 2018. вилајнац, Светог саве 102,
p.6.	Име и презиме	Организација / адреса	Телефон.;Факс; Е-таіl
-	Haprolout Colba	Other ancro yapaleg Byyelt a bahoutage fapatakalenur	065/359-78-25 Hijicsanja@.gn@guail.com
2	Maprobut Irlama	Ogenoere sa chypett a transmentaje 0691795-955	0691795-955 Warkoviejokaggs Ogwail.com.
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9	Kumaputa Javutupeluh	Ogenetie nokanne adpocke	OES/ESTOLY KOTORIVEJOUNTJOEN PEGUVAL-COM
7	Huscone Muso we soul	Onwine Leaveloag	064-877-47-25 whole-wilestricabetwail.com

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Предмет:	lem:	Место одржавања КОНСУЛТАЦИЈА И ЈАВНЕ ПРЕЗЕНТАЦИЈЕ:	ЗЕНТАЦИЈЕ:
Плав	План управљања заштитом животне средине	JII "Путеви Србије" – Сектор за инвестиције, Влајковићева 19а, Београд	ije, Влајковићева 19a, Београд
'	Јавне консултације -	Општина Свилајнац, Светог саве 102	
Пут: Пројен ДРЖ. Деон км 44	Пут: државни пут II А реда, бр.160 Пројекат: Главни пројекат појачаног одржавања ДРЖАВНОГ ПУТА IIА 160 Деоница: Свилајинац - Медвеђа км 44+057.00- км 58+860.00, дужина: 14.803 км	Термин јавних консултација: 08. мај 2018. до 25. мај 2018. Место и термин јавне презентације: Општина Свилајнац, Светог саве 102, 35210 Свилајнац	мај 2018. Вилајнац, Светог саве 102,
p.6.	Име и презиме	Организација / адреса	Телефон.;Факс; Е-тай
∞	KATAPULLA Sportut	Onwrung Bustouna,	064/2626333 Krunic, Katarina artiOgmulian
6	AHG MUNDERBROCKEUT	Oscurante Chuazheay	Burazbey ana.milosavyevic 32 agmail.com
10	Hawanija Hunwebut	Ourwana Wounghay	064/498 40 57 Milosevic nutuliju 02. gminl. Com
111	Satejengewoodne lut	ONWTHEN CREWASHAY	063611474 084841273@Yaloo.com
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4. DOCUMENTATION

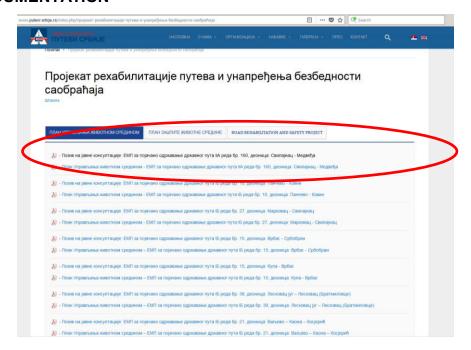


Photo 5: Announcement of public consultations on the web site of PE "Roads of Serbia"

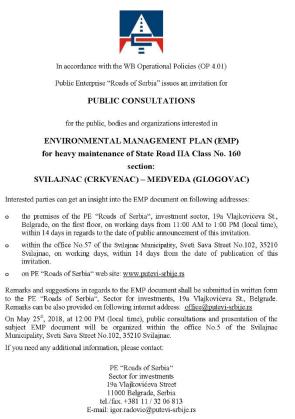


Photo 6: Announcement of public consultations on the web site of PE "Roads of Serbia"



In accordance with the WB Operational Policies (OP 4.01)

Public Enterprise "Roads of Serbia"

issues an invitation for

PUBLIC CONSULTATIONS

for the public, bodies and organizations interested in

ENVIRONMENTAL MANAGEMENT PLAN (EMP)

for heavy maintenance of State Road IIA Class No. 160 section: SVILAJNAC (CRKVENAC) - MEDVEĐA (GLOGOVAC)

Interested parties can get an insight into the EMP document on following addresses:

- · the premises of the PE "Roads of Serbia", investment sector, 19a Vlajkovićeva St., Belgrade, on the first floor, on working days from 11:00 AM to 1:00 PM (local time), within 14 days in regards to the date of public announcement of this invitation.
- · within the office No.57 of the Svilajnac Municipality, Sveti Sava Street No.102, 35210 Svilajnac, on working days, within 14 days from the date of publication of this invitation.
- on PE "Roads of Serbia" web site: www.putevi-srbije.rs

Remarks and suggestions in regards to the EMP document shall be submitted in written form to the PE "Roads of Serbia", Sector for investments, 19a Vlajkovićeva St., Belgrade. Remarks can be also provided on following internet address: office@putevi-srbije.rs

On May 25st, 2018, at 12:00 PM (local time), public consultations and presentation of the subject EMP document will be organized within the office No.5 of the Svilajnac Municipality, Sveti Sava Street No.102, 35210 Svilajnac.

If you need any additional information, please contact:

PE "Roads of Serbia" Sector for investments 19a Vlajkovićeva Street 11000 Belgrade, Serbia tel./fax. +381 11/32 06 813 E-mail: igor.radovic@putevi-srbije.rs

Photo 7: Announcement of public consultations in the daily newspaper "Politika"

5. REPORT ON THE PRESENTATION OF THE PRELIMINARY DESIGN **SOLUTION, SVILAJNAC, JANUARY 24th, 2019**

The public consultations in Svilajnac was attended by 13 people. Most of them were representatives of the Municipalities of Svilajnac and Despotovac.



Photo 1: Public consultations in Svilajnac, January 24th, 2019



Photo 2: Public consultations in Svilajnac, January 24th, 2019

Presentation started at noon.

Representative of the Consortium, responsible design engineer Aleksandar Kitanovic, B.Sc.C.E., presented the preliminary design solution in detail to the attending public.

Presentation of the preliminary design solution lasted until 01:30 PM.

After the presentation, the representative of the Municipality of Svilajnac, Ljiljana Nikolic asked questions related to the extension of the road, from 6.0 to 6.5 m. sidewalks and biking paths and design speed Vr=60 km/h as a low speed for IIA 160 road category.

Nikola Milosevic, an economist from Despotovac who works for the municipal administration, submitted the Project for the organization of the passage at the elementary school in the village of Medvedja, the municipality of Despotovac.

In addition to the project, the submission contained the agreement of PE "Roads of Serbia" and the decision of the Ministry of Construction. Transport and Infrastructure.

Mr. Milosevic insisted that the project had to be implemented in the main project of enhanced maintenance.

On this occasion, clarifications were requested regarding the exclusion of the Svilajnac Center from the project, which was also raised at the presentation of LOT 2 - section Markovac - Svilajnac.

The public consultations ended at 01:55 PM local time.

6. GENERAL CONCLUSION FROM PUBLIC PRESENTATION OF THE PRELIMINARY DESIGN SOLUTION

The results of the public presentation are the following conclusions that contain answers to the questions from the local municipalities of Svilajnac and Despotovac:

1. The real need of local self-government for the project solution that ensures the continuity of pedestrian-biking trails in the peri-urban area of Svilajnac is partially solved within the framework of the enhanced maintenance project. The designer Aleksandar Kitanovic advised the representatives of the municipalities of Svilainac and Despotovac that it was important to prepare a plan for the construction of this type of facility on the basis of which it would be possible to implement it within the project solution.

Although there is no spatial planning basis for the construction of a pedestrian path at the exit from Svilajnac towards Medvedja, in the preliminary design solution, Designer provided their continuity from km 44+070.73 to km 46+111.00, on the right side in the direction of growth of the station (existing reconstruction) and from km 44+090.00 to km 45+595.00, on the left side in the direction of growth of the station as a newly-designed sidewalk. The new sidewalk is designed from km 54+640.00 to km 55+565.00, on the left side in the direction of the growth of the station, in the zone of the intersection with the local road for Jasenovo, up to the crossroads with the railway line.

In Medvedja, new sidewalk is designed along both sides of 57+940.00 and up to the end of the section.

- 2. The issue of exclusion from the scope of the project of the central area of Svilajnac, where the cooperation of the local self-government and PE "Roads of Serbia" will contribute to joint solving of traffic problems and improvement of the road network, is the question of defining the scope in the design brief prepared by the Investor. The Designer believes that a stronger cooperation between local governments and the PE "Roads of Serbia" on road projects would be of great importance.
- 3. Bus stops are designed according to positions obtained from local selfgovernments. All the bus stops except one in the urban area of Medvedja are designed out of the carriageway with all the facilities.
- 4. Rehabilitation of existing intersections has been carried out so that attention is paid to safer traffic. At km 49+920.00 and 51+960.00 reconstructions of the intersections were performed (the intersections are reduced to type1). At km 52+980.00 reconstruction was carried out so that a four-track intersection of two T junctions was formed.
- 5. Continuous road width is provided, including sections over culverts.
- 6. All connections, intersections, access roads were treated in the project within the road belts.
- 7. Drainage of the road is examined in detail and solutions are given within the limits of the road plot, i.e. within the limits of the possible. The system of absorbent or drainage channels is provided, depending on the spatial possibilities of running the channel to the existing recipes, i.e. culverts with secured continuity below the junctions and intersections with pipe culverts.
- 8. The project of the regulation of the crossing near the primary school in the village of Medvedja, the municipality of Despotovac, will be implemented and adapted to the

new conditions dictated by rehabilitation. The graphic attachment from the project can be found below the text.

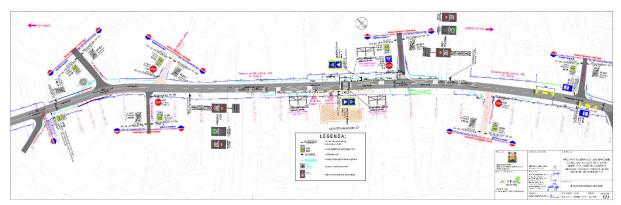


Photo 3. Graphic attachment of the traffic signalization from the regulation project

- 9. The general conclusion is that the rehabilitation project improves the usability and durability of the road related to the movement of motor vehicles, and that traffic safety, pedestrian traffic and accessibility are improved.
- 10. All road facilities on the route (26 culverts) will be rehabilitated and the continuous width of the road shall be provided.
- 11. The reconstruction of the crossing with the railway tracks will be done in accordance with the conditions of the Serbian Railways.

The conclusions from the presentation of the preliminary design solution indicate that the project documentation will not suffer any changes and that it is fully harmonized with the Environmental Management Plan of the state road IIA 160, section Svilajnac Medvedja.