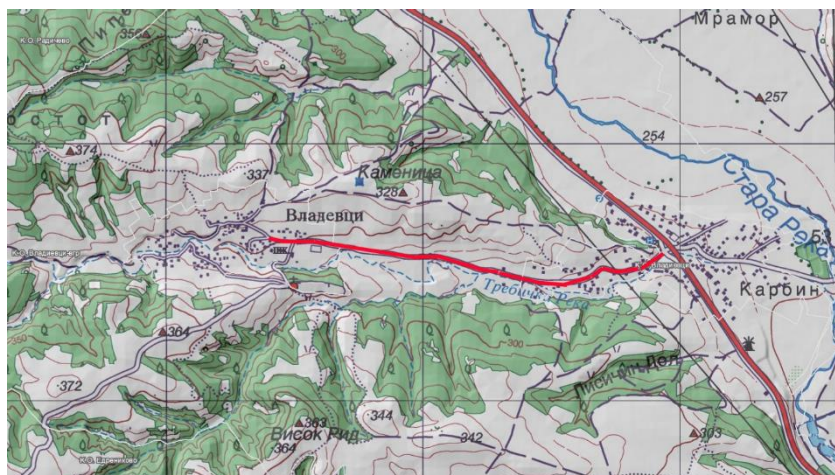




## ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

***Upgrading of local road connecting s. Novo  
Vladevci – s. Staro Vladevci, in Municipality of  
Vasilevo***



ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Project: Upgrading of local road connecting s. Novo Vldevci – s. Staro Vldevci, in Municipality of Vasilevo

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**ABBREVIATIONS**

EIA	Environmental Impact Assessment
ESMF	Environmental and Social Management Framework
ESMP	Environmental and Social Management Plan
ES	Environmental and social
ESS	Environmental and social standards
IPA	Important Plant Area
IBA	Important Bird Area
LRCP	Local Road Connectivity Project
MoEPP	Ministry of Environment and Physical Planning
MOSHA	Macedonian Occupational Safety and Health Association
MSC	Macro seismic
MoTC	Ministry of Transport and Communications
OH&S; OHS	Occupational Health and Safety
PCE	Public Communal Enterprise
PPE	Personal protection equipment
PIU	Project Implementation Unit
RM	Republic of Macedonia
RNM	Republic of North Macedonia
TMP	Traffic Management Plan
WB	World Bank
WHO	World Health Organization

## 1. INTRODUCTION

The transport sector in Republic of North Macedonia is characterized by poor condition of the local roads network, unsatisfactory level of financing of road maintenance on national level and there are weaknesses of international investment in distribution sector and transport sector. Such poor condition of the local roads is as a result of lack of financial capacity of the Local Self Government that differs from region to region in the country. Some local roads in the rural areas are in an unacceptable condition with no access to the hospitals, schools and markets so this issue brings social problems as well.

In order to support the municipalities in the Republic of North Macedonia by 70 million Euro investment secured by the World Bank, Ministry of transport and communications will implement the Local Roads Connectivity Project (LRCP) mostly in rehabilitation of existing local road infrastructure (urban / rural streets, regional and local roads), rehabilitation, upgrading, pedestrian paths, street lighting, water drainage and capacity building of the municipal staff.

When preparing these types of projects, according to the national environmental requirements (Law on Environment and secondary legislation), it is necessary to submit a Notification Letter for intention to start the project to the MoEPP which initiates the environmental impact assessment procedure and based on the Opinion, to prepare the EIA Report. If the issued Opinion of the MoEPP is positive and EIA Report has to be prepared,

The EIA Report shall be prepared in accordance with Article 24 of the Law on Environment (Official Gazette of the Republic of Macedonia No 53/05, 81/05, 24/07, 159/08, 83/09, 48/10, 124/10, 51/11, 123/12, 93/13, 187/13, 42/14, 44/15, 129/15, 192/15, 39/16 and 98/18) and the Rulebook on the form and contents of the EIA Report in accordance with the types of activities for which the report is being prepared, as well as in accordance with the entities performing the activity and the scope of activities being performed by the legal and natural entities, the procedure for their approval, as well as the method for keeping of the register of approved reports (Official Gazette of the Republic of Macedonia No 44/13, 111/14).

Since the project in accordance with the national legislation belongs to the Chapter X – Infrastructure projects, item 1 Upgrading of local roads, the EIA Report for the project “Upgrading of local road connecting S. Novo Vladevci – s. Staro Vladevci”, in Municipality of Vasilevo was prepared by the company “Biro 92 Fanula Stambolieva - Boneva” DOOEL Strumica in June 2019. The EIA Report was approved by the Mayor of the Municipality of Vasilevo and a Decision was issued on 18.07.2019 with number UP1 14-278.

The Municipality of Vasilevo needs to send a copy of the EIA Report together with the Decision for its approval to the MoTC with other technical documents.

In order to address Project’s potential environmental and social concerns in accordance with the requirements of the World Bank Environmental and Social Standards, Environmental and Social Management Framework (ESMF) was prepared for the whole LRCP project in September/October 2019. ESMF issued, as the most appropriate tool for addressing environmental and social aspects of sub-projects identified in the course of project preparation and implementation.

The sub-project has an aim to improve the road infrastructure in order to provide better connection of the s. Novo Vladevci – s. Staro Vladevci in the Municipality of Vasilevo. For this sub – project, a Main Design has been designed that defines the route of the road and the following elements in accordance with the requirements contained in the Terms of Reference submitted by the Investor.

The current state of the road that connects the s. Novo Vladevci – s. Staro Vladevci was previously asphalted and had a road-width of 3,5 – 3,6 m.

Near the subject location only arable land can be found. The road has a total length of approx. 1.842 m.

The road is planned to have a road profile width of 8,50 m, ie asphalt road with a width of 5,5 m and two sidewalks with a width of 1,5 m but at the settlements the width of the road will be 2 x 2 – 4 m to avoid property legal problems. The permitted speed for this type of road is 40-50 km/h.

A detailed road survey revealed that the existing asphalt was largely cracked and damaged. The asphalt is in better condition at one part of the road, but the leveling of the road inappropriate to the terrain conditions. Geomechanical investigations have shown that the existing asphalt is of inadequate quality, and the substrate of the buffer layer is of a low thickness of natural gravel material.

For this reason, the project task is defined by the reconstruction and revitalization of the road, and according to the Main design the new tampon layer will be consisted of existing asphalt that will be completely crushed and mixed with crushed stone, placement of ditches and three new drainage channels and bearing asphalt layer BNCS-16 with a thickness of 7.0 cm.

Taking into account the nature of project activities, technical specifications, size of the road, location of upgrading activities, as well as the specifics of the potential environmental impacts during the upgrading of the road that connects the s. Novo Vladevci – s. Staro Vladevci, ***the Project Upgrading of connecting the s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo was classified as project with substantial risks, which requires the preparation of Environmental and Social Management Plan (ESMP) in accordance with the WB environmental and social standards.***

## 2. PROJECT DESCRIPTION

### 2.1 Baseline condition of Municipality of Vasilevo

The territory of the municipality of Vasilevo covers the middle part of the Strumica-Radovis Valley, or the northwestern part of the Strumica field. The total area of the municipality is 220 km<sup>2</sup>.

The agrarian area of the municipality of Vasilevo is 16.091 ha, of which 6.773 ha or 42,1% are arable land, 1.082 ha or 11,2% are pastures, while 7.516 ha or 46,7% are forests.

In Figure1 is presented location of the project site regard the location of the Municipality of Vasilevo.

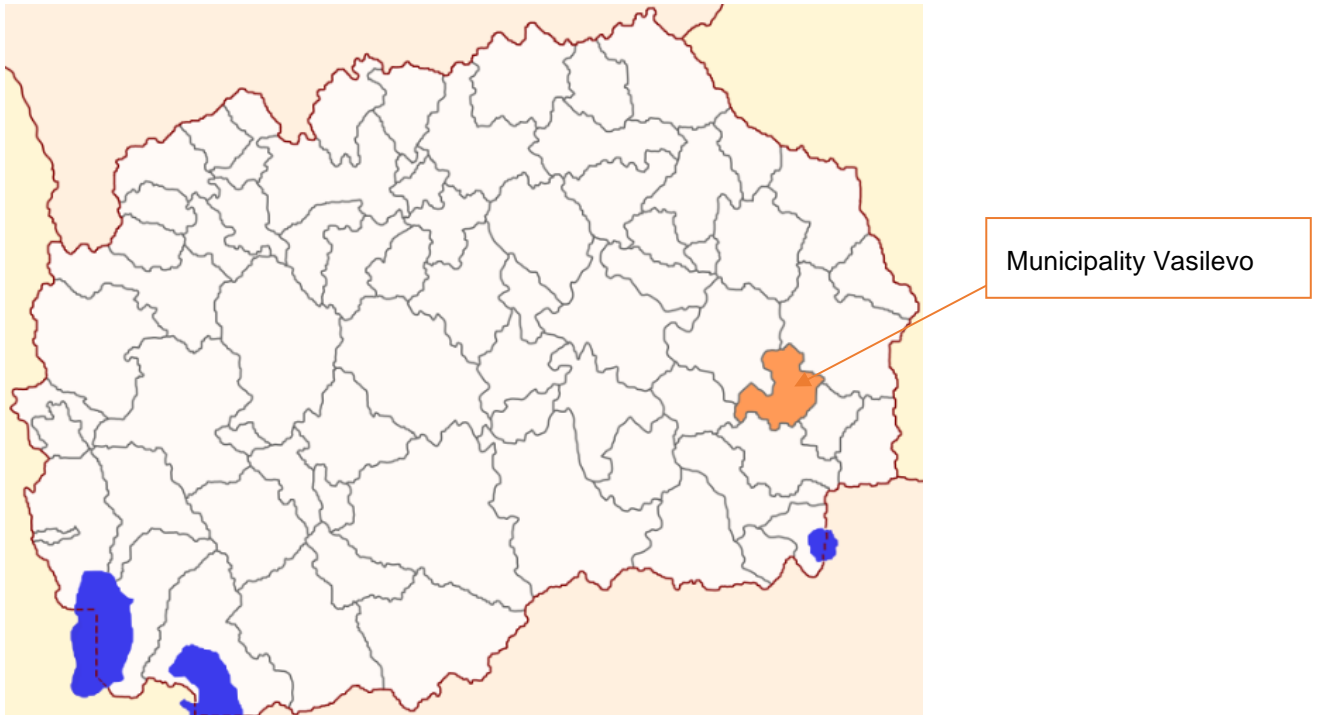


Figure1 Location of the project area in relation with the Municipality of Vasilevo

#### 2.1.1 Demography

The municipality of Vasilevo has 18 settlements with 12.122 inhabitants, according to the 2002 census. The population in 2014 is 12.866. The percentage of men in the municipality is 52,2 % and women represent 47,7 % of the population. In the municipality around 79,5 % are Macedonians and 21,5 % are Turks.

According to the data as of 2011, the total number of students in the Municipality of Vasilevo in 2011 increased by 4,4% compared to the total number of students in 2007. Vasilevo is the third municipality after the increase in the total number of students.

#### 2.1.2 Climate features

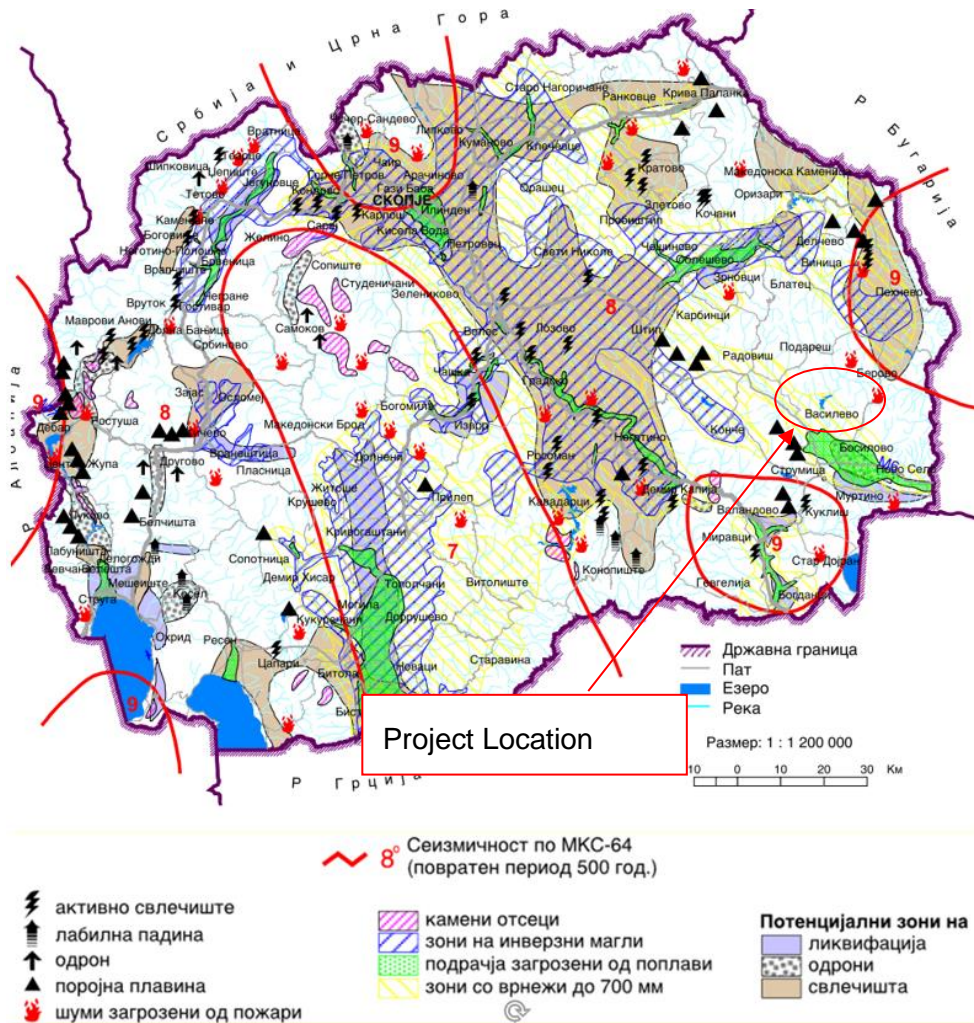
The specific geographical and topographic position of the Strumica region is characterized by two zonal climates. Sub-Mediterranean and eastern-continental, this mixture of types is presented by long hot summers with high average daily temperatures and reduced annual rainfall, reduced winter temperatures and winds from all directions.

Characteristic for that region are the northwest, southwest, and less often the north and south warm wind. In terms of light, the Strumica region is characterized by 230 sunny days. Sunshine lasts an average of 2.377 hours per year. Fog has an average of 20 days at most. Due to the sub-Mediterranean influences from the Aegean Sea

and the influence of the continental climate, the climatic conditions in the Strumica Region are characterized by reduced annual rainfall, increased aridity, and a changing pluometric regime with reduced winter temperatures.

Floods and erosion

Municipality of Vasilevo is part of Southeast planning region. According to desk research, the territory of Municipality of Vasilevo is prone to flooding. In Figure 2 is presented location of the project area regards the potential natural hazards (erosion, floods, landslides and earthquakes) in RNM.



source: <http://app.gov.mk/wp-content/uploads/2015/04/%D0%9030104-PP-na-RM-2002-2020.pdf>

Figure 2 Map with potential natural hazards (erosion, floods, landslides and earthquakes) in RNM

According to Figure 2, the project location in Municipality of Vasilevo is characterized as area with low level of risk of floods.

2.1.3 Seismology

The wider area of the project location belongs to the epicenter area Stip - Vasilevo, on the eastern side of the Vardar seismogenic zone, close to its border with the Strumica seismogenic zone. Having in mind the regional context of the seismic activity and the impacts of the earthquakes on objects at significant distances, in the following text, an overview of the two seismogenic zones, relevant to the project location, is given.



Vardar Seismogenic Zone The epicenter areas in this seismogenic zone include Skopje, Kumanovo, Veles, Sv. Nikole - Stip, Stip - Vasilevo, Gradsko - Kavadarci - Negotino), Demir Kapija, Kavadarci, Valandovo, Gevgelija - Gumenida and Dojran - Kukush. The epicenter area Stip - Vasilevo, where the project area is located, are characterized by low seismic activity.

Strumica seismogenic zone extends on the territory of RNM and the border areas. This zone includes the epicenter areas Zletovo, Kocani, Delchevo - Berovo, Pehchevo - Kresna and Strumica.

In this region, catastrophic earthquakes are relatively common, reaching epicenter intensity up to X MSC and magnitude up to 7,8 (the highest magnitude ever observed on the Balkan Peninsula). Earthquakes in the region are mostly shallow ( $x = 60$  km), with most having hypocenters up to 40 km, and most often up to 20 km.

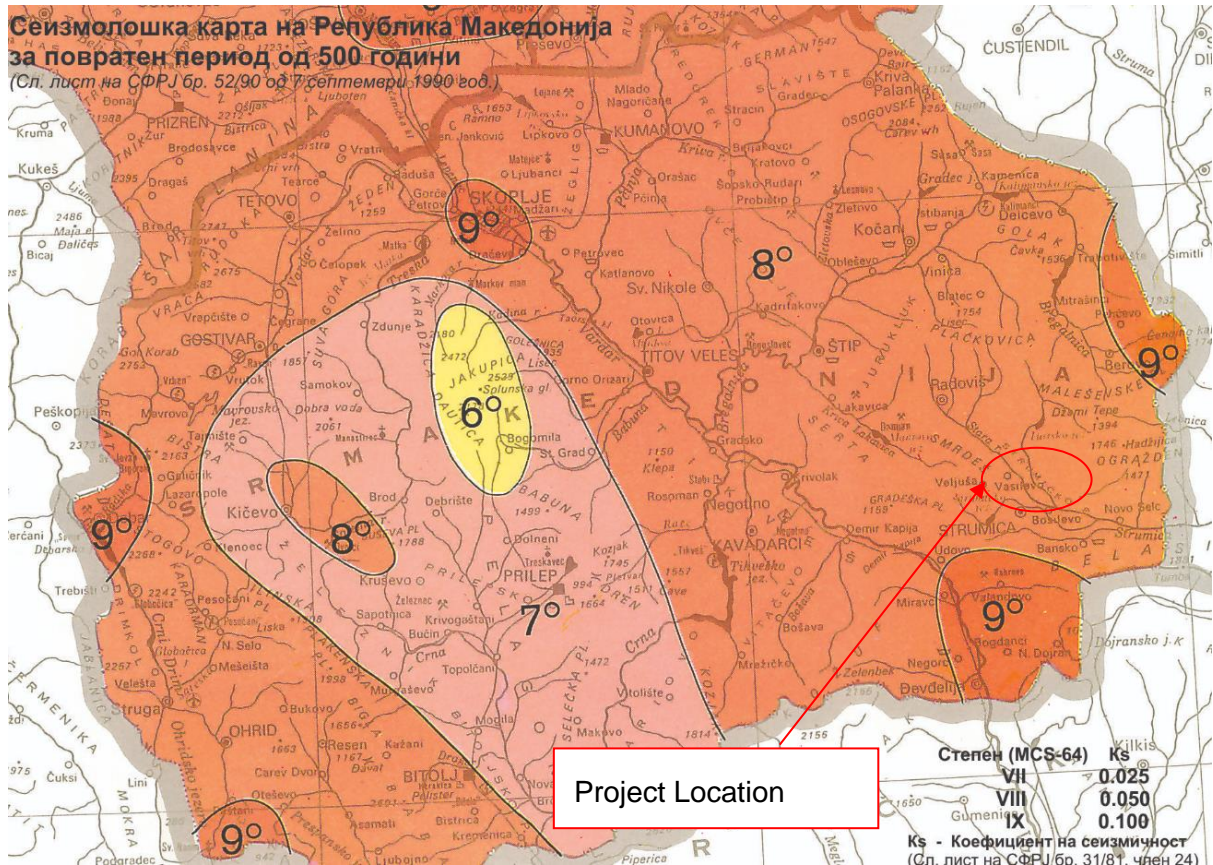


Figure 3 Seismology card for RNM

### 2.1.4 Water

The wider project site is characterized by one hydrological structure, river Trebicka, which is a small river that is not used for irrigation due to the fact that this river is dependent on the spring and autumn rains. The river Trebicka flows near the road.

The supply of sanitary and drinking water is through the regional water supply network connected to the Turija reservoir. The supply of water for irrigation of agricultural areas is also done through a regional irrigation system connected to the Turija reservoir.

### 2.1.5 Air quality

In the Republic of North Macedonia, monitoring of the ambient air quality is performed by the Ministry of Environment and Physical Planning, which manages the State automatic air quality system composed of 17 measuring stations of which 5 are located in Skopje, and the closest measuring station to the project location is

the one in City of Strumica, located south-west from the project location in Municipality of Berovo. In this air quality measuring station, monitoring is performed of the following: sulphur dioxide, nitrogen dioxide, carbon monoxide, ozone and suspended particles with size of 10 micrometers (PM<sub>10</sub>)

The sources of suspended particles are burning of fossil fuels and biofuels, different industrial processes, traffic, incineration of waste and wild fires. One of the most important sources is heating of homes and administrative capacities, mainly due to the incomplete incineration of wood in the old furnaces. The number of times the average daily threshold limit value of PM<sub>10</sub> at the Strumica measuring point in 2019 was exceeded for 109 days, in the year of 2020 (until July) there were 57 days in which the average daily threshold limit value was exceeded.

In the Republic of North Macedonia, the key and dominant source of sulphur oxides in the air are the processes of burning of fuels (coal and fuel-oil). The average daily SO<sub>2</sub> concentrations at this measuring station have not exceeded the threshold value for the year of 2019 and the year 2020 (until July).

Carbon monoxide is formed during the incomplete incineration of fuels in internal combustion engines and energy plants, as well as during different industrial processes, public institutions and households. The maximum daily 8 hour average values of CO concentrations at this measuring station for the year 2019 and the 2020 (until July) there have not been any exceedance of the threshold value.

The maximum daily 8-hour average values for the ozone concentration in the year 2019 were exceed 59 times, in the year 2020 (until July) the threshold limit value has not been exceed. For the 1-hour average values of NO<sub>2</sub> for the year 2019 and 2020 (until July) there were no exceedances of the upper threshold limit.

#### 2.1.6 Waste

Deposition of municipal solid wastes, is one of the most serious problems in the Municipality of Vasilevo.

The waste in Municipality of Vasilevo is disposed of at the landfill "Vasilevo", located around 5 km to the east of the settlement Vladevci. The landfill does not meet the minimum sanitary standards and regulations. There are no infrastructures (water, electricity), no disinfectant, no death animal pits etc. The waste is disposed of without any treatment (only leveled and filled with soil and sand).

In the municipality Vasilevo the solid municipal waste is collected and disposed by PCE "Turija", with own vehicles.

Because there is no appropriate alternative landfill for waste disposal from project activities, the generated inert waste and communal waste should be disposed at landfill "Vasilevo" (located about 5 km east from the project area in the s. Novo Vladevci – s. Staro Vladevci).

#### 2.1.7 Geology and soil

The entire Strumica Region is composed of hills and mountains, which includes plain soils, as well as alluvial, resinous and carbonate soils. Most or 46% of the arable land belongs to the plain relief which is located at an altitude of 250 - 300 m and are of primary importance for agriculture in the region. These are the areas along the riverbed of the rivers Strumica, Trkanja and Kriva Reka. The remaining 52% of the areas belong to the sloping part, and 2% to the hilly relief part. Due to these soil characteristic 87 % of the land is arable and used for agriculture.

#### 2.1.8 Flora and fauna

The project site is geographically part of the northwest side of the Strumica valley and Strumica region. The richness and heterogeneity of species and ecosystems are the basic features of biodiversity in the Strumica region. This condition is a result of the specific geographical location, climate, pedological, geomorphological and other characteristics and the changes that have occurred in the past geological periods in this territory. Forest ecosystems extend on the territory of the mountains Belasica and Ograzden, mostly dominated by deciduous oak,

hornbeam, chestnut and beech forests. The grass flora has numerous kinds of flowers, herbs and fruits as well as low-trunk plants: rosehips (*Rosa canina*), currants (*Ribes ribrum*), blackberries (*Rubus fruticosus*), raspberries (*Rubus idaeus*), nettle (*Urticaceae*), geranium (*Geranium macrorrhizum*), dandelion (*Taraxacum officinale*), etc. The fauna is diverse and includes squirrel (*Sciurus vulgaris*), wolf (*Canis lupus*), wild cat (*Felis silvestris*), doe (*Cervus capreolus*), owl (*Strix aluco*), jay (*Garrulus glandarius*), pheasant (*Phasianus colchicus*), wood pigeon (*Columba palumbus*), etc. Some flora and fauna representatives of the Municipality of Vasilevo are given in Figure 4.

Blackberries (*Rubus fruticosus*)owl (*Strix aluco*)wild cat (*Felis silvestris*)

Figure 4 Some biodiversity representatives within Municipality of Vasilevo

Few protected areas are located in the wider surrounding of the project site in Municipality of Vasilevo: a) Important Plant Area (IPA) "Monospitovo swamp" (located about 17,8 km southeast from the project site); b) Important Bird Area (IBA) "Lake Mantovo and river Lakavica" (located about 19 km northwest from the project site); c) Emerald site "Monospitovo swamp" (located about 17,8 km southeast from the project site) and d) Nature Park "Cham Chiflik" (located about 9,8 km southeast from the project site). The location of these protected areas, regards the project location, is given in Annex 1.

### 2.1.9 Noise

In the RNM only in the bigger cities, the environmental noise is monitored, whereas in the Municipality of Vasilevo there is no monitoring station, therefore the noise pollution is not monitored.

There are no recorded complains about increased level of noise at the project site.

### 2.1.10 Cultural heritage

The most important representatives of the cultural heritage near the project location in the municipality of Vasilevo (cultural-historical sites, archaeological and religious) is the Orthodox Temple "St. Assumption of the Most Holy Mother of God", then archeological sites such as Granica and Manastir (1 km to the east), Stranata and Veljusa (5 and 6 km to the south-west), Gradiste (6 km to the west), Pilat (5 km to the north-east) and many more.

## 2.2 Project location

The project area, where the project activities for upgrading of local road that connects two settlements will be performed, is located in the northwest part of the Municipality of Vasilevo, precisely between the s. Novo Vladevci – s. Staro Vladevci . The road starts from the connection with the road A4 Strumica – Skopje and extends to the center of the settlement Vladevci.

Along the project location live 684 people (181 household) out of which 359 are men (52%) and 325 are women (48%). In the settlement Vladievci the population is Macedonian.

The main income for the population of the settlements is from agriculture.

The project location length is 1.842 m. The existing local road connects the s. Novo Vladevci – s. Staro Vladevci.

The road starts from the junction with the highway Strumica-Skopje, and continues along the right side of the Trebicka river. Passing through the s. Novo Vladevci with length of 686 m and on both sides of the road there are residential houses located in large village yards.

The road from the end of the s. Novo Vladevci to the beginning of the s. Staro Vladevci in a length of 900 m. The road is surrounded by arable land.

After the entrance to the s. Staro Vladevci, until the end of the route, on both sides of the road there are residential houses.

The current state of the road that connects the s. Novo Vladevci – s. Staro Vladevci was previously asphalted and had a road-width of 3,5 – 3,6 m.

Near the subject location only arable land can be found. The road is planned to have a road profile width of 8,50 m, i.e. asphalt road with a width of 5,5 m and two sidewalks with a width of 1,5 m but at the settlements the width of the road will be 2 x 2 – 4 m to avoid property legal problems. The permitted speed for this type of road is 40-50 km/h.

A detailed road survey revealed that the existing asphalt was largely cracked and damaged. The asphalt is in better condition at one part of the road, but the leveling of the road inappropriate to the terrain conditions. Geomechanical investigations have shown that the existing asphalt is of inadequate quality, and the substrate of the buffer layer is of a low thickness of natural gravel material.

For this reason, the project task is defined by the reconstruction and revitalization of the road, and according to the Main design the new tampon layer will be consisted of existing asphalt that will be completely crushed and mixed with crushed stone, placement of ditches and three new drainage channels and bearing asphalt layer BNCS-16 with a thickness of 7 cm.

To the east of the project location the settlement Sushevo is located, on the northwest side of the project location there is the settlement Radichevo and to the south the settlement Edrenikovo can be found.

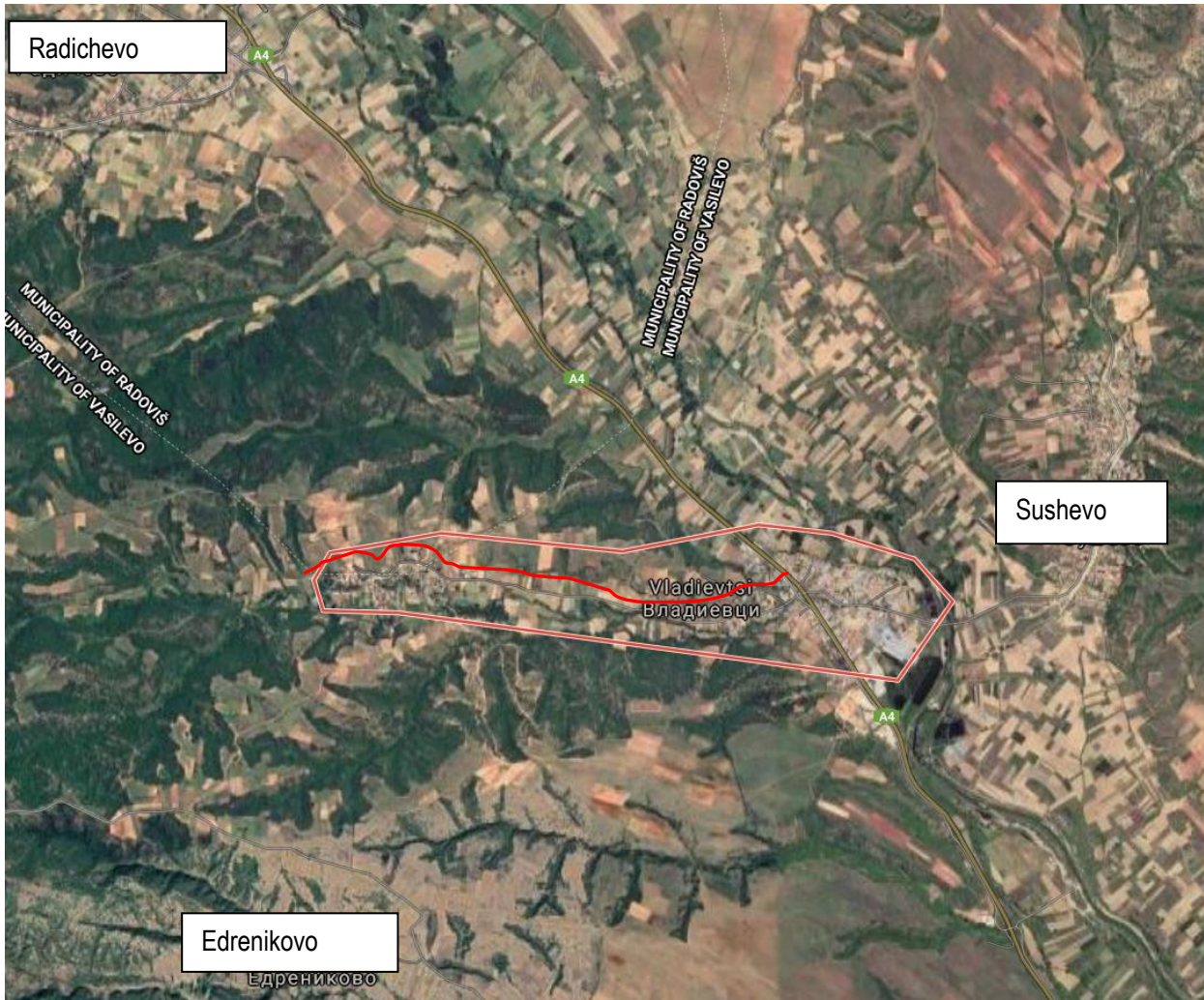


Figure 5 Location of the upgrading road in s. Novo Vladevci – s. Staro Vladevci

### 2.3 Project Activities

The planned project activities will be performed in three phases: preparatory activities (marking out and clearing up of the project site to be upgraded), upgrading of the local road (installation of crushed stone material, putting asphalt layer, etc.), and operational phase – activities related to regular and preventive maintenance of local road. The main project activities are presented in Table1.

Table1 Planned project activities for the upgrading local road between s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo

Local road - s. Novo Vladevci – s. Staro Vladevci (length =1.842 m)	
Project phases	Project Activities
<b>Preparatory activities</b>	<ul style="list-style-type: none"> <li>• Marking and securing the route at the project location;</li> <li>• Removal/ clearance of vegetation is not planned;</li> <li>• Demolition of asphalt pavement.</li> </ul>
<b>Upgrading phase</b>	<ul style="list-style-type: none"> <li>• Mechanical excavation of soil (loading and transport to landfill) 1.739,6 m<sup>3</sup>;</li> <li>• Compacting the bed to the required compaction;</li> <li>• Mechanical making of embankment obtained from excavation;</li> <li>• Continuation of the existing ø500 concrete culvert for 1,5 m with an reinforced concrete;</li> <li>• Placing of tampon layer with crushed stone and crushed asphalt pavement;</li> <li>• Placing of road shoulders, gutters.</li> </ul>

Local road - s. Novo Vladevci – s. Staro Vladevci (length =1.842 m)	
Project phases	Project Activities
<b>Operational phase</b>	<ul style="list-style-type: none"> <li>• Clean up the upgrading site;</li> <li>• Regular maintenance (especially in the winter period);</li> </ul>

## 2.4 Sensitive receptors

Local population (who will gravitate along the local road between the two settlements s. Novo Vladevci – s. Staro Vladevci) and workers (who will be engaged during the project activities) will be defined as **sensitive** receptors during the implementation of the project. Potential environmental impact and risk and impact and risk assessment for each aspect, is given below. The road is used by the communities for transit to bigger urban centers for work, to visit health centers, attending elementary school (other than the one in s. Vladevci), high school or faculty in the city of Strumica. During implementation of the project activities there will be a part of the road that will not be under construction in order for the people of the settlements to be able to use it.

## 3. POTENTIAL ENVIRONMENTAL IMPACT AND RISK AND IMPACT AND RISK ASSESSMENT

For this sub – project land acquisition is not envisaged as the property of the land where the local road is located is state owned. For the needs of the Contractor for temporary placement of machinery and equipment at a location in the immediate vicinity to the project that is privately owned (if there is a need), it is necessary to sign a Contract with the owner of the parcel for temporary land usage during project implementation period. The Contract will define terms and obligations for land usage or other premises (ex. garage, storage area, etc.) in line with the Project RPF Furthermore, all compensation will be paid before the respective land is accessed.

In addition to the planned project activities presented in Table 1 the potential impact and risks that can occur during implementation of the project phases are given in Table 2 .

Table 2 The potential impact and risks during implementation of the project

Possible impacts		
<ul style="list-style-type: none"> <li>• OHS risks</li> <li>• Safety risk for local population (especially near houses)</li> </ul>	<ul style="list-style-type: none"> <li>• OHS risks</li> <li>• Community safety risks,</li> <li>• Air quality,</li> <li>• Noise,</li> <li>• Waste generation</li> <li>• Water pollution</li> <li>• Temporary land acquisition/damage to private property</li> </ul>	<ul style="list-style-type: none"> <li>• Waste generation,</li> <li>• Noise</li> <li>• Air emissions</li> </ul>

As a result of implementation of project activities in the rural area of Municipality of Vasilevo, the main adverse environmental impact can be seen through: expected increased level of noise (generated from construction machinery), possible air emissions, improper waste management, non-compliance with the OHS requirements and possible risk on local population. Preceding the project activities, the Contractor is required to prepare and implement **OHS Plan for risky terrains including Labor management procedures** (for prevention of worker injuries); **Traffic Management Plan** with time schedule of project activities and directions for re-routing the traffic flow (provision of proper transportation of goods, directions for re-routing the traffic and secure passage of the local people as well as horizontal or vertical signalization along the project road ); **Community Safety Plan** (with proper preventive measures which should be part of the project design documentation, marking and securing the project site (placement of alert signalization for the pupils attending the school in s. Vladevci the Contractor should provide easy access. In order to prevent possible risk on pupils (attending the school), the Contractor should schedule the project activities in the summer period, when the frequency of the pupils is decreased because of the summer break)) and c) marking and securing the project site (placement of alert signalization) and Grievance mechanism and forms for complaints by the surrounding population to be on their disposal during the upgrading activities. The forms could be post in the municipality office and local community office); **Information note/Press**

should contain information about the type of upgrading activities should be submitted to the municipal staff to post on their web-site (<http://opstinavasilevo.gov.mk/>) and place on their municipal information board.

The workers on the project location need to always wear their PPE in order to avoid possible injuries, also they must be informed about the Grievance Redress Mechanism and their rights to organize workers organization by their employer (Contractor/Sub-contractor). The current workers must be employed fulltime, have their health and pension insurance covered in full for their engagement by the employer. The grievance forms could be post in the mobile containers for the workers.

Considering the current situation with COVID-19 in the country (the number of cases is increasing, so, on 22<sup>th</sup> of July there are 3.998 active cases, total deaths 442 and total number of healed persons is 5.076) in addition to the measures for safety and protection at work, the OH&S plan also should include measures for prevention of COVID -19. Detailed description of the measures and recommendations from the World Bank/WHO and MOSHA are presented in Annex 2. The COVID-19 prevention measures contains recommendations from the World Bank / WHO, as well as recommendations from the Macedonian Occupational Safety and Health Association in the form of a Guide that the Contractor of the construction works needs to implement. The Contractor is required to follow/update and implement the measures that are currently in force and adopted by the Government as binding at national level. Official site for information related to COVID 19 on national level is [www.koronavirus.gov.mk](http://www.koronavirus.gov.mk).

During the preparatory and upgrading project activities the possible **air emissions** will be caused by the operation of the mechanical machinery and equipment (dust and gas emissions). During the operational phase the air emissions will be mostly generated by mobile sources like the vehicles using the road. For the prevention and mitigation of the adverse environmental impacts the Contractor should see the Mitigation Plan (table below).

Increased **level of noise and vibration** is expected during the preparatory and upgrading phase of the project. Taking into consideration the noise sensitivity of the project location and national legislation for noise protection (Official Gazette of RM No.79/07, 124/10, 47/11, 163/13 and 146/15) the project for upgrading of local roads connecting s. Novo Vladevci – s. Staro Vladevci is considered to be an area with III degree of noise protection because of the mixed area with a few houses and agricultural fields (the maximum limit values should not exceed 55 dB(A) for night and 60 dB(A) for evening and day).

The Contractor should properly manage the different waste streams (such as soil, asphalt and communal waste) that will be generated at the project location by proper selection, transportation and final disposal. It is expected that the Contractor will prepare and implement a Waste **Management Plan** so that no waste will be no disposed unregularly. The waste in the municipality is collected and disposed by the PCE "Turija" at the municipal landfill "Vasilevo" (located about 5 km east from the project area in the s. Novo Vladevci – s. Staro Vladevci ). The estimated values of excavated soil (17 05 04) is 1.739,6 m<sup>3</sup>, and the existing asphalt (17 09 04) will be crushed and used for the new tampon layer (according to the Main Design).

The closest river passing by the project location is the river Trebicka that flows near the road another river close by is the river Stara located at about 400 m to the east. The water categorization of river Stara is III class (moderately eutrophic water, which in its natural state can be used for irrigation, and according to the usual methods of processing in industry that does not need quality drinking water) according Regulation for Categorization of Water Courses and Lakes - Official Gazette of the RM No. 18/99. The Contractor should forbid temporary or final waste disposal near or in river bands of this water recipient, in order to prevent **decreasing of the water quality of river Stara**.

As mentioned before, few protected areas are located in the wider surrounding of the project site in Municipality of Vasilevo: a) Important Plant Area (IPA) "Monospitovo swamp" (located about 17,8 km southeast from the project site); b) Important Bird Area (IBA) "Lake Mantovo and river Lakavica" (located about 19 km northwest from the project site); c) Emerald site "Monospitovo swamp" (located about 17,8 km southeast from the project site) and d) Nature Park "Cham Chiflik" (located about 9,8 km southeast from the project site). Because of

the wider distance between them and the project site, the implementation of the project activities will not cause adverse impacts.

The proposed preventive and mitigation measures are presented in the Mitigation and Monitoring Plan tables in Chapter 4.

#### Implementation of ESMP

This ESMP is a part of the contract that the PIU will sign with the Contractor for implementation of the project activities. The proposed preventive and/or mitigation environmental and social measures in this plan must be executed by the Contractor and therefore the respected documentation related to applying these measures (e.g., letter asking the municipality for disposal of inert waste, records on OHS training performed for all workers before start of activities, all developed OHS plans, etc.). For all the workers especially those at high risk must attend an OHS training organized by the Contractor prior the start of the project activities. The training should be delivered by the authorized OHS company and everyday OHS risks should be assessed by the Contractor's OHS responsible person working on the location on daily basis. Evidence for all trainings delivered should be kept.

*Measures prescribed in the EIA Report including measures within the ESMP will be a mandatory requirement for the Contractor during the implementation of the construction activities.*

The implementation of proposed measures by the Contractor and Contractor's subcontractors will be monitored by the Supervising Engineer by doing visual checking, reviewing the records of evidence that the measures have been applied and ask the Contractor to apply the measures as soon as possible. If there are any non-compliances they need to be recorded and the Report containing them needs to be sent immediately to the municipality (Project Manager), and from here it will be reported to the PIU. The Environmental/Social Specialist engaged by the PIU will report the non-compliance and accidents/ emergencies cases to the Bank immediately upon occurrence. Each incompliance needs to be addressed and the evidence of the appropriate measures taken need to be kept. The regular monthly report should contain all environmental and social issues raised during that period and the evidence on solutions should be provided as well.

The main responsibilities of the PIU will be in regards to the Project implementation, project coordination, monitoring activities and reporting.

The Environmental/Social Specialist engaged by the PIU will be responsible for ensuring proper environmental management of all Project activities, conduct environmental supervision by carrying out document reviews, site visits and interviews with Contractor, Supervising Engineer and municipality staff. He/she will supervise Contractors' compliance with ESMP and visit the project location at least once a month and the Monitoring Report reflecting main issues and arrangements and timing for their solution will be prepared and submitted to the PIU. The semi-annual Project Report should contain a chapter with Environmental/Social risks/impacts of the project and the status of implementation the ESMP proposed measures.

The municipality is tasked with daily monitoring of the project activities engaging the Supervising Engineer and coordinating all activities on location nominating the responsible person – Project Manager.

The PIU needs to organize regular meetings with the Project Manager, Contractor, representatives from MoTC, responsible person from the Municipality of Vasilevo and the ES specialist on a monthly basis or during any site visit.

Good communication between all involved stakeholders (Contractor, Supervisor, municipal staff, Environmental Inspector, Communal Inspector, PIU from MoTC and other relevant persons from Municipality of Vasilevo) is very important for providing continuous performance of the project activities and successful completion of overall project. The PIU from MoTC and project manager from the Municipality of Vasilevo will facilitate good communication and coordination of the project activities on spot.



## Grievance mechanism

PIU within the MoTC has introduced a Grievance Mechanism to ensure that it is responsive to any concerns and complaints particularly from affected stakeholders and communities.

For the purposes of receiving comments from the stakeholders (local citizens and workers onsite) PIU established a Grievance Form for the construction phase of the project (Annex 4) that will be available in electronic form on the MoTC web site, Municipality web site and the Contractors web site.

Grievance Form for the construction phase of the project is prepared for the local population (if an incident or damage to private property occurs) and for the workers (grievance for lack of protective equipment, increased working hours, no period for rest, etc...) who will be involved in the construction activities.

Before starting with construction activities Contractor should inform the workers about the Grievance Form and the opportunity to express their compliances regarding the operation on the construction site. Local population will be introduced with this possibility by the Information posted on the Informative board within the Local Community, Municipal web site, and via local radio and TV station.

The PIU will ensure that the GRM is responsive to any concerns and complaints particularly from affected stakeholders and vulnerable groups.

Following steps are to be taken to ensure full GRM functioning:

**Step 1:** Recording received grievance in the GRM registry;

**Step 2:** Providing the person who filed the grievance with an acknowledgment of receipt within 5 days of receipt;

**Step 3:** Investigating the grievance;

**Step 4:** Resolution of Grievance within 15 days of grievance receipt;

**Step 5:** Follow up.

In cases when the grievance/complaint is indefinite or not clear enough, the PIU will assist and provide advice in formulating/redrafting the submission, in order for the grievance/complaint to become clear, for purposes of an informed decision by the PIU, in the best interests of persons affected by the Project.

If the PIU is not able to address the issues raised by immediate corrective action, a long-term corrective action will be identified. The complainant will be informed about the proposed corrective action and follow-up of corrective action within 25 calendar days upon the acknowledgement of grievance. In situation when the PIU is not able to address the particular issue verified through the grievance mechanism or if action is not required, it will provide a detailed explanation/ justification on why the issue was not addressed. The response will also contain an explanation on how the person/ organization that raised the complaint can proceed with the grievance in case the outcome is not satisfactory. At all times, complainants may seek other legal remedies in accordance with the legal framework of Republic of North Macedonia, including formal judicial appeal.

Grievances can be filled verbally, by phone, in writing (by post or e-mail) or by filling in a grievance form (Annex 1). The grievance form will be made available on the implementing agencies website together with clear information on how feedback, questions, comments, concerns and grievances can be submitted by any stakeholder and information concerning the PIU's managing of the GRM both in terms of process and deadlines. Furthermore, the website will include the possibility to submit grievances electronically.

In order to capture and track grievances received under the project, a dedicated GRM register is planned. Specifically nominated members of staff will record grievance information in the grievance registry. This will include:

- Number of Grievance;
- Date of receipt;

- Stakeholder name, sex, age and contact details;
- Date of acknowledgement;
- Description of grievance;
- Description of action taken;
- Date of grievance resolution.

The PIU will share the Grievance Registry with the WB on a monthly basis.

### Public disclosure and citizen engagement

The Municipality of Vasilevo will submit draft version of this ESMP to PIU Environmental and Social Experts to review and approve it, who will then (when confident that the document meets WB quality and content requirements) submit the draft document for the review and clearance by the World Bank. After the clearance is obtained, the document will be publicly disclosed.

The Draft ESMP will be available for the public on web site of the Municipality of Vasilevo (<http://opstinavasilevo.gov.mk/>) and the web site of the MoTC PIU (<http://www.mtc.gov.mk/>) accompanied by a Form for submitting comments (Annex 3). The social Media channels of the Municipality of Vasilevo that will be used for the purpose of raising awareness about the Project implementation and identified E&S risks, impacts and mitigation measures is the facebook page (<https://www.facebook.com/>).

During the 14 days after the disclosure of the prepared ESMP document, the Municipality of Vasilevo will conduct video public consultation in order to inform the public on the proposed sub-project activities, anticipated impacts and the ways of their mitigation.

Public announcement will be developed with brief description about the purpose of the project, project activities and duration of the activities, environmental and social impacts, proposed measures, availability of the ESMP together with the Form for submitting comments on the MoTC web site and Municipality web site, Informative board within the Local Community. Announcement will also contain information about the possibility for citizens to raise opinion/ suggestion/comments on the prepared ESMP by filling the Form for comments and submission to the responsible person from MoTC Mrs. Irena Paunovikj (e-mail: [irena.paunovikj.piu@mtc.gov.mk](mailto:irena.paunovikj.piu@mtc.gov.mk)). Form for submitting can be filled with a full identity or anonymously, and the comment or suggestion should be fully described in order to take it into account in the final version of ESMP. Information about the date and time for conducting the and the video public consultation, way how the stakeholder can take part on the video public consultation will also be a part of the announcement.

Public announcement will be published on the local radio or TV station and on the Informative board within the Local Community.

### **Public consultation**

Considering the current situation with COVID 19 and the inability for organizing an ordinary public hearing event in the premises of the Municipality where the project will be implemented, the video public consultation will be organized, The MoTC PIU in cooperation with the municipality will define the date for the video public consultation (by using Vebex operational tool).

Municipalities will need to inform all relevant stakeholders on its territory about the timing of the video public consultation (and to ask them for their e-mail address if they like to join the event), so that all from their homes/offices can follow the event and be active participants. If the stakeholders do not have the technical capabilities, the municipality will ensure an appropriate solution in order to be able to follow the event. The mailing list for participants will be prepared taking into account all relevant stakeholders and Invitation will be sent to those with brief explanation for the:

- Purpose of the video public consultation;
- Registration link and instructions for connection;
- Exact time and date for the event;
- Availability of the disclosed draft ESMP for comments and
- Possibility for submitting comments on the prepared ESMP by filling in the Form for submitting comments and suggestions on the ESMP to the responsible person from PIU

During the video consultation event after the presentation of the main project activities and main findings from the ESMP, attending stakeholders can raise their comments/questions/suggestions and any concern about the project.

After maintaining the video public consultation and the 14-day period for submitting comments, the final version of the ESMP will be prepared and will include the public consultation report (including announcement of the event (media or personal) detailed description of the event, list of participants, minutes of meeting, the expressed comments) and the appropriate corrections in the document according to the received comments and remarks.

Approved Final version of ESMP should be included in the Grant Agreement with sub-project proponent, and then into the respective bidding documents and construction contracts.

Final version of the ESMP will be available on the MoTC web site and Municipality web site for the whole period of the sub project implementation.

**Contact person for project awareness and public consultation from MoTC:**

**Mrs. Irena Paunovikj**, Responsible for public relations for the project,

e-mail: [irena.paunovikj.piu@mtc.gov.mk](mailto:irena.paunovikj.piu@mtc.gov.mk)

**Contact person for project awareness and public consultation from Municipality of Vasilevo:**

**Mr. Goran Andonov**, Representative from the Department for urbanism,

e-mail: [andonov\\_goran1990@yahoo.com](mailto:andonov_goran1990@yahoo.com)

mob.tel: 071/239-344

#### 4. ENVIRONMENTAL AND SOCIAL MITIGATION PLAN

Potential impact	Impact scale	Proposed mitigation measures	Responsibility
<b>Project activities: Preparation activities before upgrading the local road: Marking out the route for upgrading of local road connecting S. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo</b>			
<p><b>Possible adverse social and health impacts to the population, drivers and workers due to:</b></p> <ul style="list-style-type: none"> <li>– Lack of ensured safety measures at the start of upgrading works;</li> <li>– Injury passing near by the upgrading sites;</li> <li>– No compliance with strict OHS standards and work procedure.</li> </ul>	<p>Local/ Short term during the upgrading period with major significance along the local road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo</p>	<ul style="list-style-type: none"> <li>➤ Preparation, approval and implementation of <b>OHS Plan for risky terrains</b> prior start of activities;</li> <li>➤ Preparation, approval and implementation of <b>Traffic management Plan</b> during project activities (in correlation with municipality staff, prior start the upgrading activities);</li> <li>➤ Preparation, approval and implementation of <b>Community Safety Plan</b> including Labor management procedures prior the start of activities;</li> <li>➤ Preparation, approval and implementation of <b>Waste Management Plan</b> (with reuse/recycling activities included) prior the start of activities;</li> <li>➤ Provision of the information about the type and duration of upgrading activities on the municipal web site (<a href="http://opstinavasilevo.gov.mk/">http://opstinavasilevo.gov.mk/</a>), local community, and municipal board;</li> <li>➤ The Contractor is required to submit a preliminary Traffic management Plan, which will be part of the ESMP. Before the start of the project activities, the updated Traffic management Plan with Community Safety Plan will be submitted to the ESS. It will be presented to the workers on regular basis. Traffic management Plan will specifically deal with safety of the pupils and local population using the road (walking / driving);</li> <li>➤ Contractor will make assessment and record the state of the property and objects that are close to the road, prior commencement of any works. Records should be kept in case of future damage claims by the local property owners;</li> <li>➤ Application of good upgrading practice for marking out the project site including:                             <ul style="list-style-type: none"> <li>• Appropriate marking out the project site, section by section along the road;</li> <li>• Placement of alert signs especially for limitation of speed driving near the road that will be upgraded especially at the places where there are road exits to the agricultural fields;</li> <li>• Placement of warning tapes;</li> <li>• Installation of Notice board with general information about the project, Contractor and Supervisor at project location;</li> <li>• Forbidden of entrance of unemployed persons within the warning tapes;</li> <li>• Community and Worker’s OH&amp;S measures should be applied (first aid, protective clothes for the workers, appropriate machines and tools);</li> <li>• During the project activities the Contractor should provide easy access of the local population to their houses, primary school, health center, etc.;</li> <li>• The road should be kept clean;</li> <li>• Mobile toilets should be placed on the project sites;</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Contractor – Bidder</li> <li>• Supervisor</li> <li>• Municipality staff (Communal Inspector and Environmental Inspector)</li> </ul>

Potential impact	Impact scale	Proposed mitigation measures	Responsibility
		<ul style="list-style-type: none"> <li>• Machines should be handled only by experienced and trained personnel, thus reducing the risk of accidents;</li> <li>• Trying to avoid compliance, if any appeared recording grievances and promptly response and overcome the problem;</li> <li>• Constant presence of firefighting devices should be ensured in case of fire or other damage;</li> <li>• All workers must be familiar with the fire hazards and fire protection measures and must be trained to handle fire extinguishers, hydrants and other devices used for extinguishing fires;</li> <li>• Larger quantities of flammable liquids should not be kept on the site along the road that will be upgraded.</li> <li>• All engaged workers on this project must have regulated employment status by Contractor/sub-contractor and must receive full health and pension insurance, all in compliance with local labor related legislation and International labor standards.</li> </ul>	
<b>Project activities: Upgrading of local road connecting S. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo</b>			
<p><b>Possible emissions by transportation vehicles and impact on air quality along the road that connects s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo due to:</b></p> <p>–Gases emissions of operation with construction machinery (CO<sub>2</sub>, NO<sub>x</sub>, PAH, SO<sub>2</sub> and suspended particulates (PM<sub>10</sub>, PM<sub>2.5</sub>))</p>	Local/ Short term with major significance along the road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo	<ul style="list-style-type: none"> <li>➤ The construction site and the sites for handling materials as well as the transportation routes should be water-sprayed on dry and windy days;</li> <li>➤ The upgrading materials should be stored in appropriate places covered to minimize dust;</li> <li>➤ When using vehicles for transportation of loads likely to emit dust they need to be covered;</li> <li>➤ The workers must always use protective masks especially when there is increase of the emitted dust at the project location;</li> <li>➤ The vehicle speed within the upgrading locations must be restricted;</li> <li>➤ Perform regular maintenance of the vehicles and upgrading machinery in order to reduce the leakages of motor oils, emissions and dispersion of pollution;</li> <li>➤ Burning of debris from ground clearance not permitted.</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor – Bidder</li> <li>• Supervisor</li> </ul>
<b>Temporary land acquisition/ damage to private property</b>	Local within the project location in Municipality of Vasilevo	<ul style="list-style-type: none"> <li>➤ Avoidance of the use of private lands;</li> <li>➤ In case avoidance is not possible, minimization of size of the area used and impacts on the vegetation;</li> <li>➤ Implementation of RPF provisions;</li> <li>➤ Arrangements with owner and payment must be executed prior to land access.</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor, PIU</li> </ul>
<b>Possible noise disturbance as a result of outdoor equipment usage and</b>	Local/ short term with medium significance along the project	<ul style="list-style-type: none"> <li>➤ According to national legislative ambient noise and vibration (Official Gazette No. 79/07, 124/10, 47/11, 163/13 and 146/15), the project location belongs to an area with III degree of noise protection because of the mixed area with family houses and agricultural fields (the maximum limit values should not exceed 55 dB(A) for night and 60 dB(A) for evening and day).</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor – Bidder</li> <li>• Supervisor</li> </ul>

Potential impact	Impact scale	Proposed mitigation measures	Responsibility
<p><b>transportation vehicles driving around the sites</b></p>	<p>location in Municipality of Vasilevo</p>	<ul style="list-style-type: none"> <li>➤ The upgrading work should be not permitted during the nights; the operations on sites shall be restricted to the hours 7.00 -19.00.</li> <li>➤ The control of noise level should be performed before the start up with the working activities and during work peaks;</li> <li>➤ The equipment should be fitted with appropriate noise devices that will reduce sound level;</li> <li>➤ Limitation of the generated noise as road conditions allows, implementation of road speed limitation barriers (speed road barriers, road shoulders, convex wide-angle mirrors, etc.). All mitigation measures should be in compliance with national regulative for traffic safety - Law for road traffic safety (Official Gazette of RM, No.54/07, 86/08, 98/08, 64/09, 161/09, 36/11, 51/11,114/12, 27/14 and 169/15).</li> </ul>	
<p><b>Possible adverse environmental impact and health effects could occur as a result of generation of the different waste streams</b></p> <p>The inappropriate waste management and not in time collection and transportation of waste streams</p> <p>In the Municipality of Vasilevo the solid municipal waste is collected and disposed by PCE "Turija", with their own vehicles.</p> <p>Because there is no appropriate alternative landfill for waste disposal from the project activities, the generated waste streams should be disposed at landfill "Vasilevo", located around 5 km to the east of the project area in the s.</p>	<p>Local/ Short term with major significance within the project location in Municipality of Vasilevo</p>	<ul style="list-style-type: none"> <li>➤ Identification of the different waste types at the upgrading sites (soil, humus, bottles, food, etc.);</li> <li>➤ Classification of waste according the national List of Waste (Official Gazette no.100/05);</li> <li>➤ The main waste would be classified under the Waste Chapter 17 "Construction and demolition wastes (including excavated soil from contaminated sites)" with the waste code, 17 05 – Excavated soil and stones and 17 09 04 – Mixed waste from construction site with estimated values 1.739,6 m<sup>3</sup>, and the existing asphalt (17 09 04) will be crushed and used for the new tampon layer (according to the Main Design);</li> <li>➤ The recycle and re-use of some waste materials is obligatory (not to dispose them as a waste);</li> <li>➤ Small amount of solid municipal waste could be found (food, beverages), as well as packaging waste (paper, bottles, glass, etc.). Proper containers/waste bins should be provided at the project site during the upgrading activities;</li> <li>➤ Collection and transportation of the inert and communal waste by the PCE "Turija" from Vasilevo (the waste disposal will be performed on landfill "Vasilevo", located around 5 km to the east of the project area in the s. Novo Vladevci – s. Staro Vladevci );</li> <li>➤ The options for reuse/recycling of the generated waste streams should be taken into consideration (e.g. reuse of the removed layer of excavated soil, etc.).</li> <li>➤ Possible hazardous waste (motor oils, vehicle fuels) should be collected separately and authorized collector and transporter should be sub-contracted to transport and finally dispose the hazardous waste;</li> <li>➤ The materials should be covered during the transportation to avoid waste dispersion;</li> <li>➤ Burning of waste along or around the project location is prohibited.</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor – Bidder</li> <li>• Supervisor</li> <li>• Municipality staff (Communal Inspector)</li> <li>• Mayor of the Municipality of Vasilevo</li> <li>• PCE "Turija" from Vasilevo</li> </ul>

Potential impact	Impact scale	Proposed mitigation measures	Responsibility
Novo Vladevci – s. Staro Vladevci ).			
<b>Possible environmental impact on the relevant water recipients could occur due to ground contamination</b> (from the spillage of materials such as vehicle fuel, motor oils and lubricants) and waste disposal near or in the river bed of Trebicka and Stara	<b>Local/Short term with medium significance near the water recipients Trebicka river and Stara river</b>	<ul style="list-style-type: none"> <li>➤ Possible hazardous waste (motor oils, vehicle fuels, lubricants) should be collected separately and authorized company should be sub-contracted to transport and finally dispose the hazardous waste;</li> <li>➤ According to national legislative for waste management, it is forbidden for temporary or final disposal in or near the river bed of Trebicka and Stara river in order to prevent decreasing of the ecological status of the river Stara - III class (moderately eutrophic water, which in its natural state can be used for irrigation, and according to the usual methods of processing in industry that does not need quality drinking water).</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor – Bidder</li> <li>• Supervisor</li> <li>•</li> </ul>
<b>Possible adverse impact on cultural heritage sites in municipality Vasilevo</b> (churches, monasteries, chapels, archeological sites)	Local/ short term with minor significance within the project location in Municipality of Vasilevo	<ul style="list-style-type: none"> <li>➤ Possible damages of the churches, monasteries, chapels, archeological sites due to the improper handling and manipulation of the construction machinery and equipment – only competent and trained staff should be working with this equipment during the upgrading activities;</li> <li>➤ Possible noise disturbance during the upgrading activities – the Contractor should provide usage of construction machinery and equipment that generate lower noise level.</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor – Bidder</li> <li>• Supervisor</li> <li>• Municipality staff (Communal Inspector)</li> </ul>

**Project activities: Operational phase of the local road connecting S. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo**

No adverse impact is expected in the operational phase of the project. Regular maintenance of the local road in the Municipality of Vasilevo, should be carried out (e.g. removal of snow in winter period, regular repair of the road surface, etc.). The vehicles that will gravitate in his project phase of the local road, should limit their speed according to the road conditions.

The Investor should develop and implement the mitigation measures in the operational phase of the projects like: post of the horizontal and vertical traffic signalization for speed limitation of the vehicles, limitation of the generated noise as road conditions allows, implementation of road speed limitation barriers (speed road barriers, road shoulders, convex wide angle etc.). All mitigation measures should be in compliance with national legislation for traffic safety - Law for road traffic safety (Official Gazette of RM, No.54/07, 86/08, 98/08, 64/09, 161/09, 36/11, 51/11,114/12, 27/14 and 169/15).

5. ENVIRONMENTAL AND SOCIAL MONITORING PLAN

What parameter to be monitored?	Where is the parameter to be monitored?	How is the parameter monitored?	When is the parameter monitored (frequency of measurement)?	Why is the parameter monitored?	Cost		Responsibility	
					Upgrading	Operations	Upgrading of the local road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo	Operations of the local road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo
<b>Project stage: Preparation activities before upgrading the local road: Marking out the route for upgrading of local road connecting S. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo</b>								
Constant wearing of the PPE and compliance with the protection measures for workers in order to minimize possible injuries at the construction site	At the project site	Visual checks	During the clean-up activities  At the beginning of each working day during the sub-project activities	To prevent health and safety risks – mechanical injuries  To be in compliance with national communal health regulation and OH&S standards	Included in the project budget		Contractor/sub-contractors - Bidder Supervisor Communal Inspector at the Municipality of Vasilevo	
Preparation of required documents related to OH&S, Community safety and Traffic Management	Within the project location	Review of the prepared documentation (OHS Plan Community safety Plan Traffic Management Plan (TMP)	During the clean-up activities  At the beginning of each working day during the sub-project activities	To prevent health and safety risks – mechanical injuries;  To be in compliance with national communal health regulation and OHS standards.	Included in the project budget		Contractor - Bidder Supervisor Communal Inspector at the Municipality of Vasilevo	
Training of workers and informing of the local population about	At the project site	OHS training by an authorized OHS company	Before the start of the project activities	To prevent health and safety risks – mechanical injuries of the worker and local population;	Included in the project budget		Contractor - Bidder Supervisor Communal Inspector at the Municipality of Vasilevo	



ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Project: Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo

What parameter to be monitored?	Where is the parameter to be monitored?	How is the parameter monitored?	When is the parameter monitored (frequency of measurement)?	Why is the parameter monitored?	Cost		Responsibility	
					Upgrading	Operations	Upgrading of the local road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo	Operations of the local road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo
the project activities		engaged by the Contractor  Provision of the information via TV, radio and municipality web site <a href="http://opstinavasilevo.gov.mk/">http://opstinavasilevo.gov.mk/</a> about the project activities		To be in compliance with national communal health regulation and OHS standards.				
<b>Project stage: Upgrading of local road connecting S. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo</b>								
Applicable Traffic Management Plan for the project and Notices for the availability of the plan and information on traffic regulation set on bulletin board in the settlements	Within the project locations	Visual monitoring	During the working day	To ensure the coordinated traffic flow through the project location and easy access of local population	Included in the project budget		Contractor - Bidder Supervisor Communal Inspector at the Municipality of Vasilevo	

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Project: Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo

What parameter to be monitored?	Where is the parameter to be monitored?	How is the parameter monitored?	When is the parameter monitored (frequency of measurement)?	Why is the parameter monitored?	Cost		Responsibility	
					Upgrading	Operations	Upgrading of the local road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo	Operations of the local road connecting s. Novo Vladevci – s. Staro Vladevci , in Municipality of Vasilevo
Use of PPE by the workers	At the upgrading site	Visual monitoring	During the works	To ensure workers safety on site	Included in the project budget		Contractor /Sub-contractor Supervisor Municipality of Vasilevo, Labor inspection	
Primary selection of the generated different waste streams at the project location	On the upgrading sites	Review the documentation	At the beginning of work with new material/s	In order to ensure separation of hazardous from the non-hazardous waste as well as inert from biodegradable waste	Included in the project budget		Contractor – Bidder Supervisor	
Collection and transport of hazardous waste (if any occurs)	On safety temporary storage	Review the transportation list and conditions at the storage facility	Before the transportation of the hazardous waste (if there is any)	To improve the waste management practice on municipality and national level/ Not to dispose the hazardous waste on the waste disposal spots	Included in the project budget		Authorized Contractor for collection and transportation of hazardous waste (if any occurs)	
Collection transportation and final disposal of the solid waste	Along and around the upgrading site	Visual monitoring and reviewing the transportation and disposal lists from the sub-contractor	After the collection and transportation of the solid waste on regular base each day	Not to leave and dispose the waste streams on the sites in order to avoid the environmental and health impact on local population  To have the real data for generated waste streams and to improve the waste management	Included in the project budget		Contractor – Bidder Supervisor and PCE “Turija” from Vasilevo	

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Project: Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo

What parameter to be monitored?	Where is the parameter to be monitored?	How is the parameter monitored?	When is the parameter monitored (frequency of measurement)?	Why is the parameter monitored?	Cost		Responsibility	
					Upgrading	Operations	Upgrading of the local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo	Operations of the local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo
Possible waste disposal (solid and liquid) near or in the river bed of Trebicka and Stara	Near the project site	Visual check if the waste is disposed near relevant water recipient	During the project activities (once per week)	To ensure good status of water quality To prevent possible water pollution of the rivers Trebicka and Stara	Included in the project budget		Contractor - Bidder Supervisor	
Fulfilled Annual Report for collection, transportation and disposal of waste	Local self-government administration	Review of documentation – Identification of waste list	After the accomplishment the task of collection, transportation, temporary disposal and final disposal of waste	To improve the waste management on local and national level  To be in compliance with national legal requirements	Included in the project budget		Mayor of Municipality of Vasilevo / Ministry of Environment and Physical Planning	
Baseline monitoring of noise and additional upon public complaint (if happens)	Along the road where are located family houses	With noise measurement calibrated equipment	Before the start of the project activities and during the work peaks	To ensure noise level limits according to the national regulation	Part of the regular Contract		Contractor;  Accredited company for measuring the level of provided by the contractor;  Authorized environmental inspector, Construction inspector	
<b>Project stage: Operational phase of the local road connecting S. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo</b>								

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Project: Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo

What parameter to be monitored?	Where is the parameter to be monitored?	How is the parameter monitored?	When is the parameter monitored (frequency of measurement)?	Why is the parameter monitored?	Cost		Responsibility	
					Upgrading	Operations	Upgrading of the local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo	Operations of the local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo
<p>Implementation of mitigation measures (e.g. placement of the horizontal and vertical traffic signalization for speed limitation of the vehicles, convex wide-angle mirrors, etc.)</p> <p>Limitation of the generated noise as road conditions allow.</p>	Along the road	Decreased number of traffic accidents along the local roads	Continuously (the parameter should be monitored in compliance with - Law for road traffic safety (Official Gazette of RM, No.54/07, 86/08, 98/08, 64/09, 161/09, 36/11, 51/11,114/12, 27/14 and 169/15).	To achieve safety of the local population and their private properties and to be in compliance with national regulative for traffic safety		Municipality budget		Ministry of internal affairs (branch office in Municipality of Vasilevo)
Road maintenance from the overgrown vegetation, generated waste, clearing of snow drifts, rocks or soil sediments	Along the road	Traffic flow without congestion	Continuously – during the entire period of the	To ensure safe traffic		Municipality budget		Communal services in the municipality - PCE “Turija” from Vasilevo

6. ANNEX

Annex 1 Map of sensitive areas in the wider surrounding of the project location in Municipality of Vasilevo

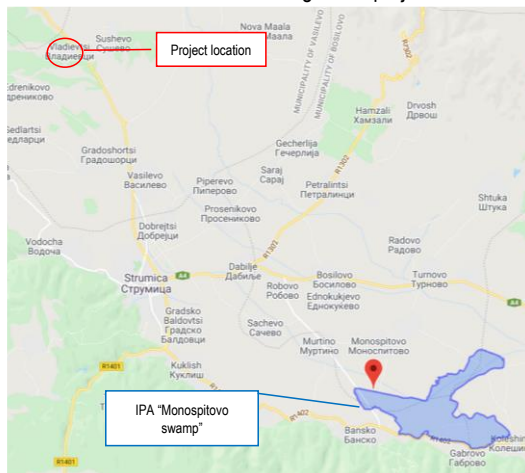


Figure 6 Location of IPA "Monospitovo swamp" related to project location

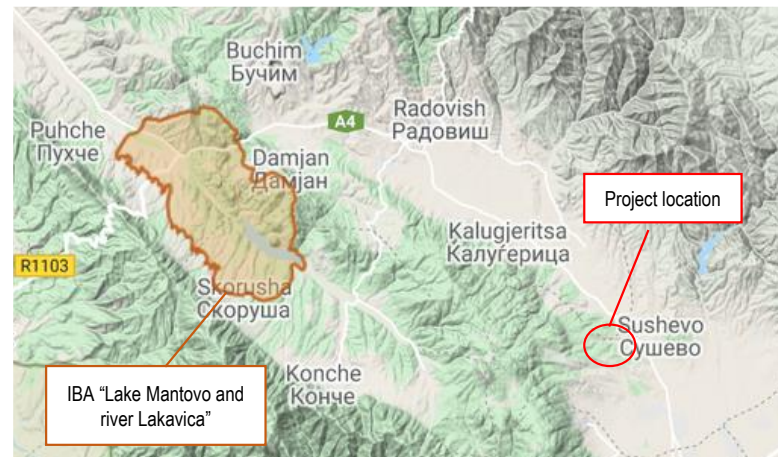


Figure 7 Location of IBA "Lake Mantovo and river Lakavica" related to project location

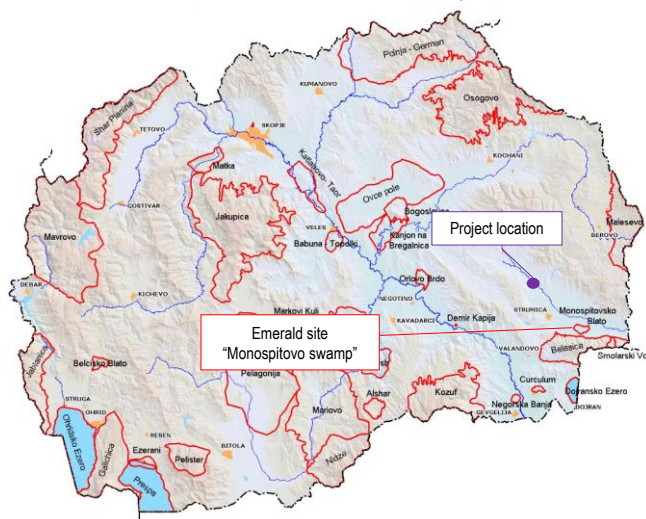


Figure 8 Location of Emerald site "Ovce Pole" related to project location

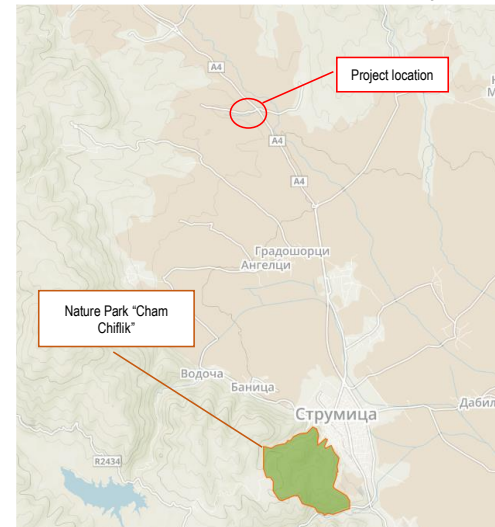


Figure 9 Location of Nature Park "Cham Chiflik" related to project location

## Annex 2 COVID-19 considerations in construction/civil works projects

Taking into account the new situation with the appearance of the virus COVID 19, besides the standard measures for safety and protection at work it is necessary to implement measures for protection from COVID 19.

Undoubtedly, the Contractors will face many challenges in the new situation, such as:

- Inability to purchase protective equipment and disinfectants due to lack on the market,
- Lack of labour due to limited movement and absences from work,
- Inability to provide materials and work equipment due to congestion in all segments of life in the country,
- Employees' concerns about their livelihoods due to reduced workload, etc.

First, it is necessary to implement the measures for protection from COVID 19 adopted by the Government of the Republic of Northern Macedonia at the proposal of the Commission for Infectious Diseases and the Ministry of Health. **These measures should be constantly updated in accordance with the latest provisions introduced by the Government.** The Contractor is required to nominate a responsible person who will follow the measures adopted by the Government and will apply them in the operation of the construction site at the project location.

Links of the national institutions responsible for COVID 19 where the Contractor could find updated information and recommendations:

- **Government of the Republic of North Macedonia** - <https://vlada.mk/node/20488?ln=en-gb>
- **Ministry of Health** - <http://zdravstvo.gov.mk/korona-virus/>
- **Ministry of Labour and Social Policy** - <http://mtsp.gov.mk/covid-19.nspix>
- **Ministry of transport and communications** - <http://mtc.gov.mk/Preporaki%20od%20Vlada>
- **Official site for COVID – 19** - <https://koronavirus.gov.mk/en>

On national level in addition to the measures introduced by the Government for protection from COVID 19, the Macedonian Occupational Safety and Health Association developed a Guide to Safety and Health at Work in Construction Prevention from the Corona virus. The Guide contains measures that the Contractor is required to implement in order to eliminate the possible ways of obtaining and transmitting COVID 19 among the workers on construction site.

In more detail in several chapters, the Guide contains:

- Challenges in construction;
- Obligations for the Contractor;
- Obligations for workers;
- Liabilities for Investors;
- Ways of proceeding in cases of suspected case or cases infected with COVID 19;
- Contact phones of national institutions responsible for contacting the occurrence of the event infected with COVID 19.

The text of the Guide to Safety and Health at Work in Construction Prevention from the Corona virus on the Macedonian language is given on the following link <http://mzzpr.org.mk/wp-content/uploads/2020/04/covid19-%D0%B3%D1%80%D0%B0%D0%B4%D0%B5%D0%B6%D0%BD%D0%B8%D1%88%D1%82%D0%B2%D0%BE.pdf>.

**The Contractor also needs to implement the requirements introduced by the World Bank related to the protection of COVID 19.**

Regarding the COVID-19 considerations in construction/civil works projects given by the World Bank, they are divided in several segments/issues and in details are shown on Table 3.

Table 3 COVID-19 considerations in construction/civil works projects recommended by WB

<b>COVID-19 considerations in construction/civil works projects</b>	
<b>Covid-19 issues</b>	<b>Type of activities</b>
	<p>The Contractor should identify measures to address the COVID-19 situation taking into account the location, existing project resources, availability of supplies, capacity of local emergency/health services, the extent to which the virus already exist in the area.</p> <p>PIU and Contractor should establish specific procedures for addressing COVID 19 issues on the construction site. Procedures should be implemented, documented and updated in accordance with the latest changes introduced by the Government and the conditions on the construction site.</p>
Assessing workforce characteristics	<ul style="list-style-type: none"> <li>• The Contractor should prepare a detailed profile of the project work force, key work activities, schedule for carrying out such activities, different durations of contract and rotations;</li> <li>• This should include a breakdown of workers who reside at home (i.e. workers from the community), workers who lodge within the local community and workers in on-site accommodation (i.e. workers camp). Where possible, it should also identify workers that may be more at risk from COVID-19, those with underlying health issues or who may be otherwise at risk;</li> <li>• Consideration should be given to ways in which to minimize movement in and out of site. This could include lengthening the term of existing contracts, to avoid workers returning home to affected areas, or returning to site from affected areas.</li> </ul>
Entry/exit to the work site and checks on commencement of work	<ul style="list-style-type: none"> <li>• Establishing a system for controlling entry/exit to the site, securing the boundaries of the site, and establishing designating entry/exit points (if they do not already exist). Entry/exit to the site should be documented;</li> <li>• Training security staff on the (enhanced) system that has been put in place for securing the site and controlling entry and exit, the behaviors required of them in enforcing such system and any COVID - 19 specific considerations;</li> <li>• Training staff who will be monitoring entry to the site, providing them with the resources they need to document entry of workers, conducting temperature checks and recording details of any worker that is denied entry;</li> <li>• Confirming that workers are fit for work before they enter the site or start work. While procedures should already be in place for this, special attention should be paid to workers with underlying health issues or who may be otherwise at risk. Consideration should be given to demobilization of staff with underlying health issues;</li> <li>• Checking and recording temperatures of workers and other people entering the site or requiring self-reporting prior to or on entering the site;</li> <li>• Providing daily briefings to workers prior to commencing work, focusing on COVID-19 specific considerations including cough etiquette, hand hygiene and distancing measures, using demonstrations and participatory methods;</li> <li>• During the daily briefings, reminding workers to self-monitor for possible symptoms (fever, cough, and other respiratory symptoms) and to report to their supervisor or the COVID-19 focal point if they have symptoms or are feeling unwell;</li> <li>• Preventing a worker from an affected area or who has been in contact with an infected person from returning to the site for 14 days or (if that is not possible) isolating such worker for 14 days;</li> <li>• Preventing a sick worker from entering the site, referring them to local health facilities if necessary or requiring them to isolate at home for 14 days.</li> </ul>
General hygiene	<ul style="list-style-type: none"> <li>• Placing posters and signs around the site, with images and text in local languages (MK/ALB);</li> <li>• Ensuring handwashing facilities supplied with soap, disposable paper towels and closed waste bins exist at key places throughout site, including at entrances/exits to work areas; where there is a toilet, canteen or food distribution, or provision of drinking water; in worker accommodation; at waste stations; at stores; and in common spaces. Where handwashing facilities do not exist or are not</li> </ul>

<b>COVID-19 considerations in construction/civil works projects</b>		
<b>Covid-19 issues</b>	<b>Type of activities</b>	
	<p>adequate, arrangements should be made to set them up. Alcohol based sanitizer (if available, 60-95% alcohol) can also be used;</p> <ul style="list-style-type: none"> <li>• Training workers and staff on site on the signs and symptoms of COVID-19, how it is spread, how to protect themselves (including regular handwashing and social distancing) and what to do if they or other people have symptoms;</li> <li>• Setting aside part of worker accommodation for precautionary self-quarantine as well as more formal isolation of staff who may be infected.</li> </ul>	
Cleaning and waste disposal	<ul style="list-style-type: none"> <li>• Providing cleaning staff with adequate cleaning equipment, materials and disinfectant;</li> <li>• Training cleaning staff on appropriate cleaning procedures and appropriate frequency in high use or high-risk areas;</li> <li>• Where it is anticipated that cleaners will be required to clean areas that have been or are suspected to have been contaminated with COVID-19, providing them with appropriate PPE: gowns or aprons, gloves, eye protection (masks, goggles or face screens) and boots or closed work shoes. If appropriate PPE is not available, cleaners should be provided with best available alternatives;</li> <li>• Training cleaners in proper hygiene (including handwashing) prior to, during and after conducting cleaning activities; how to safely use PPE (where required); in waste control (including for used PPE and cleaning materials);</li> <li>• Any medical waste produced during the care of ill workers should be collected safely in designated containers or bags and treated and disposed of following relevant requirements (e.g., national - <a center;"="" href="http://www.moiepp.gov.mk/?nastani=%d0%bf%d1%80%d0%b5%d0%bf%d0%be%d1%80%d0%b0%0%ba%d0%b8-%d0%b7%d0%b0-%d1%83%d0%bf%d1%80%d0%b0%d0%b2%d1%83%d0%b2%d0%b0%d1%9a%d0%b5-%d1%81%d0%be-%d0%be%d1%82%d0%bf%d0%b0%d0%b4-%d0%b7%d0%b0-%d0%b3%d1%80, WHO). If open burning and incineration of medical wastes is necessary, this should be for as limited a duration as possible. Waste should be reduced and segregated, so that only the smallest amount of waste is incinerated.&lt;/li&gt; &lt;/ul&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td style=" text-align:="">Adjusting work practices</a></li></ul>	<ul style="list-style-type: none"> <li>• Decreasing the size of work teams;</li> <li>• Limiting the number of workers on site at any one time;</li> <li>• Changing to a 24-hour work rotation;</li> <li>• Adapting or redesigning work processes for specific work activities and tasks to enable social distancing, and training workers on these processes;</li> <li>• Continuing with the usual safety trainings, adding COVID-19 specific considerations. Training should include proper use of normal PPE. While as of the date of this note, general advice is that construction workers do not require COVID-19 specific PPE, this should be kept under review;</li> <li>• Arranging (where possible) for work breaks to be taken in outdoor areas within the site;</li> <li>• Consider changing canteen layouts and phasing meal times to allow for social distancing and phasing access to and/or temporarily restricting access to leisure facilities that may exist on site, including gyms;</li> <li>• At some point, it may be necessary to review the overall project schedule, to assess the extent to which it needs to be adjusted (or work stopped completely) to reflect prudent work practices, potential exposure of both workers and the community and availability of supplies, taking into account Government advice and instructions.</li> </ul>
Project medical services	<ul style="list-style-type: none"> <li>• Expanding medical infrastructure and preparing areas where patients can be isolated. Isolation facilities should be located away from worker accommodation and ongoing work activities. Where possible, workers should be provided with a single well-ventilated room (open windows and door). Where this is not possible, isolation facilities should allow at least 1 meter between workers in the same room, separating workers with curtains, if possible. Sick workers should limit their movements,</li> </ul>	



<b>COVID-19 considerations in construction/civil works projects</b>	
<b>Covid-19 issues</b>	<b>Type of activities</b>
	<p>avoiding common areas and facilities and not be allowed visitors until they have been clear of symptoms for 14 days. If they need to use common areas and facilities (e.g. kitchens or canteens), they should only do so when unaffected workers are not present and the area/facilities should be cleaned prior to and after such use.</p> <ul style="list-style-type: none"> <li>• Training medical staff, which should include current WHO advice on COVID-19 and recommendations on the specifics of COVID-19. Where COVID-19 infection is suspected, medical providers on site should follow WHO interim guidance on infection prevention and control during health care when novel coronavirus (nCoV) infection is suspected;</li> <li>• Assessing the current stock of equipment, supplies and medicines on site, and obtaining additional stock, where required and possible. This could include medical PPE, such as gowns, aprons, medical masks, gloves, eye protection, etc..;</li> <li>• Review existing methods for dealing with medical waste, including systems for storage and disposal.</li> </ul>
Local medical and other services	<ul style="list-style-type: none"> <li>• Conducting preliminary discussions with specific medical facilities, to agree what should be done in the event of ill workers needing to be referred;</li> <li>• Obtaining information as to the resources and capacity of local medical services (e.g. number of beds, availability of trained staff and essential supplies);</li> <li>• Clarifying the way in which an ill worker will be transported to the medical facility, and checking availability of such transportation;</li> <li>• Agreeing with the local medical services/specific medical facilities the scope of services to be provided, the procedure for in-take of patients and (where relevant) any costs or payments that may be involved;</li> <li>• A procedure should also be prepared so that project management knows what to do in the unfortunate event that a worker ill with COVID-19 dies. While normal project procedures will continue to apply, COVID-19 may raise other issues because of the infectious nature of the disease. The project should liaise with the relevant local authorities to coordinate what should be done, including any reporting or other requirements under national law;</li> </ul>
Instances or spread of the virus	<ul style="list-style-type: none"> <li>• <b>If a worker has symptoms of COVID-19 (e.g. fever, dry cough, fatigue) the worker should be removed immediately from work activities and isolated on site;</b></li> <li>• <b>The worker should be transported to the local health facilities to be tested (if testing is available and permitted under national legislation);</b></li> <li>• <b>If the test is positive for COVID-19 or no testing is available, the worker should continue to be isolated. This will either be at the work site or at home. If at home, the worker should be transported to their home in transportation provided by the project;</b></li> <li>• <b>Extensive cleaning procedures with high-alcohol content disinfectant should be undertaken in the area where the worker was present, prior to any further work being undertaken in that area. Tools used by the worker should be cleaned using disinfectant and PPE disposed of;</b></li> <li>• <b>Co-workers (i.e. workers with whom the sick worker was in close contact) should be required to stop work, and be required to quarantine themselves for 14 days, even if they have no symptoms;</b></li> <li>• <b>Family and other close contacts of the worker should be required to quarantine themselves for 14 days, even if they have no symptoms;</b></li> <li>• <b>If a case of COVID-19 is confirmed in a worker on the site, visitors should be restricted from entering the site and worker groups should be isolated from each other as much as possible;</b></li> <li>• <b>If workers live at home and has a family member who has a confirmed or suspected case of COVID-19, the worker should quarantine themselves and not be allowed on the project site for 14 days, even if they have no symptoms;</b></li> </ul>

<b>COVID-19 considerations in construction/civil works projects</b>	
<b>Covid-19 issues</b>	<b>Type of activities</b>
	<ul style="list-style-type: none"> <li>• <b>Workers should continue to be paid throughout periods of illness, isolation or quarantine, or if they are required to stop work, in accordance with national law;</b></li> <li>• <b>Medical care (whether on site or in a local hospital or clinic) required by a worker should be paid for by the employer.</b></li> </ul>
Continuity of supplies and project activities	<ul style="list-style-type: none"> <li>• Identify back-up individuals, in case key people within the project management team (PIU, Supervising Engineer, Contractor, sub-contractors) become ill, and communicate who these are so that people are aware of the arrangements that have been put in place;</li> <li>• Document procedures, so that people know what they are, and are not reliant on one person's knowledge;</li> <li>• Understand the supply chain for necessary supplies of energy, water, food, medical supplies and cleaning equipment, consider how it could be impacted, and what alternatives are available. Early proactive review of international, regional and national supply chains, especially for those supplies that are critical for the project, is important (e.g. fuel, food, medical, cleaning and other essential supplies). Planning for a 1-2 month interruption of critical goods may be appropriate for projects in more remote areas;</li> <li>• Place orders for/procure critical supplies. If not available, consider alternatives (where feasible);</li> <li>• Consider existing security arrangements, and whether these will be adequate in the event of interruption to normal project operations;</li> <li>• Consider at what point it may become necessary for the project to significantly reduce activities or to stop work completely, and what should be done to prepare for this, and to re-start work when it becomes possible or feasible.</li> </ul>
Contingency planning for an outbreak	<p>The contingency plan to be developed at each site should set out what procedures will be put in place in the event of COVID-19 reaching the site. The contingency plan should be developed in consultation with national and local healthcare facilities and follow state guidance for COVID-19 response, to ensure that arrangements are in place for the effective containment, care and treatment of workers who have contracted COVID-19. The contingency plan should also consider the response if a significant number of the workforce become ill, when it is likely that access to and from a site will be restricted to avoid spread.</p> <p>Contingencies should be developed and communicated to the workforce for:</p> <ul style="list-style-type: none"> <li>• Isolation and testing procedures for workers (and those they have been in contact with) that display symptoms;</li> <li>• Care and treatment of workers, including where and how this will be provided;</li> <li>• Getting adequate supplies of water, food, medical supplies and cleaning equipment in the event of an outbreak on site, especially should access to the site become restricted or movements of supplies limited.</li> </ul> <p>Specifically, the plan should set out what will be done if someone may become ill with COVID-19 at a worksite. The plan should:</p> <ul style="list-style-type: none"> <li>• Set out arrangements for putting the person in a room or area where they are isolated from others in the workplace, limiting the number of people who have contact with the person and contacting the local health authorities;</li> <li>• Consider how to identify persons who may be at risk (e.g. due to a pre-existing condition such as diabetes, heart and lung disease, or as a result of older age), and support them, without inviting stigma and discrimination into your workplace; and</li> <li>• Consider contingency and business continuity arrangements if there is an outbreak in a neighboring community.</li> </ul> <p>Contingency plans should consider arrangements for the storage and disposal arrangements for medical waste, which may increase in volume and which can remain infectious for several days (depending upon the material). The support that site medical staff may need, as well as arrangements for transporting (without</p>

COVID-19 considerations in construction/civil works projects	
Covid-19 issues	Type of activities
	<p>risk of cross infection) sick workers to intensive care facilities or into the care of national healthcare facilities should be discussed and agreed.</p> <p>Contingency plans should also consider how to maintain worker and community safety on site should sites closed to comply with national or corporate policies, should work be suspended or should illness affect significant numbers of the workforce. It is important that worksite safety measures are reviewed by a safety specialist and implemented prior to work areas being stopped.</p>
Training and communication with workers	<ul style="list-style-type: none"> <li>• Regular information and engagement with workers (e.g. through training, town halls, tool boxes) that emphasizes what management is doing to deal with the risks of COVID-19. Workers should be given an opportunity to ask questions, express their concerns, and make suggestions;</li> <li>• Training should address issues of discrimination or prejudice if a worker becomes ill and provide an understanding of the trajectory of the virus, where workers return to work;</li> <li>• Training should cover all issues that would normally be required on the work site, including use of safety procedures, use of construction PPE, occupational health and safety issues, and code of conduct, taking into account that work practices may have been adjusted;</li> <li>• Communications should be clear, based on fact and designed to be easily understood by workers, for example by displaying posters on handwashing and social distancing, and what to do if a worker displays symptoms.</li> </ul>
Communication and contact with the community	<ul style="list-style-type: none"> <li>• Communications should be clear, regular, based on fact and designed to be easily understood by community members;</li> <li>• Communications should utilize available means. In most cases, face-to-face meetings with the community or community representatives will not be possible. Other forms of communication should be used; online platforms, social media, posters, pamphlets, radio, text messages, virtual meetings. The means used should take into account the ability of different members of the community to access them, to make sure that communication reaches these groups;</li> <li>• The community should be made aware of procedures put in place at site to address issues related to COVID-19. This should include all measures being implemented to limit or prohibit contact between workers and the community. The community should be made aware of the procedure for entry/exit to the site, the training being given to workers and the procedure that will be followed by the project if a worker becomes sick.</li> </ul>
Covid-19 reporting	<p>Contractor should report an outbreak for a 'Serious' incident. The Contractor should keep the Borrower informed of any concerns or problems associated with providing care to infected workers on project sites, particularly if infection rate is approaching 50% of the workforce.</p>

Annex 3 Form for submitting comments

<b>Form for submitting comments and suggestions for Environmental and Social Management Plan ESMP for the project “Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci ”, in Municipality of Vasilevo</b>	
<p><b>Main description of the project</b></p> <p>The project road is connecting the s. Novo Vladevci – s. Staro Vladevci , located in the northern part of the Municipality of Vasilevo. The total length of the road is 1.842 m. The main activities for this sub-project are: marking out and clearing up of the project site, crushing the existing asphalt and placing it as tampon layer together with the crushed stone material, putting asphalt layer, etc. Since this is an existing road, no significant environmental impacts are expected, but for the identified impacts, the ESMP is prepared where appropriate measures for their mitigation and minimization are presented.</p> <p><b>Electronic version of the Environmental and Social Management Plan (ESMP) for the project “Upgrading of local roads connecting s. Novo Vladevci – s. Staro Vladevci ”, in Municipality of Vasilevo is available on the following web pages:</b></p> <ul style="list-style-type: none"> <li>• Municipality of Vasilevo: <a href="http://opstinavasilevo.gov.mk/">http://opstinavasilevo.gov.mk/</a></li> <li>• MoTC PIU: <a href="http://mtc.gov.mk/">http://mtc.gov.mk/</a></li> </ul>	
<p><b>Name and surname of the person who provides comment*</b></p>	
<p><b>Contact information*</b></p>	<p><b>E-mail:</b></p> <p>_____</p> <p><b>Phone:</b></p> <p>_____</p>
<p><b>Comment on the ESMP:</b></p> <p>_____</p>	
<p><b>Signature</b></p> <p>_____</p>	<p><b>Date</b></p> <p>_____</p>
<p><b>If you have any comments/suggestions or amendments to the proposed measures of Environmental and Social Management Plan ESMP for the project “Upgrading of local roads connecting s. Novo Vladevci – s. Staro Vladevci ”, in Municipality of Vasilevo, please submit it to the responsible persons from the following institution:</b></p> <p style="text-align: center;"><b>Contact person: Irena Paunovikj</b></p> <p style="text-align: center;"><b>e-mail: <a href="mailto:irena.paunovikj.piu@mtc.gov.mk">irena.paunovikj.piu@mtc.gov.mk</a></b></p> <p style="text-align: center;"><b>Within the 14 days period after the announcement of ESMP for the project “Upgrading of local roads connecting S. Novo Vladevci – s. Staro Vladevci ”, in Municipality of Vasilevo</b></p> <p><b>(date of announcement: ..... )</b></p>	
<p><b>Referent number:</b> _____</p>	
<p>(fulfilled by the responsible persons for the project implementation)</p>	

\* Fulfillment of the fields with personal data is not obligatory

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)  
Project: Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo

Annex 4 Grievance Form for whole project implementation period

<b>Reference Number</b>	
<b>Full name (optional)</b>	
<input type="checkbox"/> I wish to raise my grievance anonymously. <input type="checkbox"/> I request not to disclose my identity without my consent.	
<b>Contact information</b>	<input type="checkbox"/> <b>By Post: Please provide mailing address:</b> _____ _____
Please mark how you wish to be contacted (by post, telephone, e-mail).	<input type="checkbox"/> <b>By telephone:</b> _____ <input type="checkbox"/> <b>By E-mail</b>
<b>Preferred language of communication</b>	<input type="checkbox"/> <b>Macedonian</b> <input type="checkbox"/> <b>Albanian</b> <input type="checkbox"/> <b>Turkish</b> <input type="checkbox"/> <b>Other:</b> _____
<b>Gender</b>	<input type="checkbox"/> <b>Female</b> <input type="checkbox"/> <b>Male</b>
<b>Description of Incident for Grievance</b>	What happened? Where did it happen? Whom did it happen to? What is the result of the problem?
<b>Date of Incident / Grievance</b>	
	<input type="checkbox"/> <b>One-time incident/grievance (date _____)</b> <input type="checkbox"/> <b>Happened more than once (how many times? _____)</b> <input type="checkbox"/> <b>On-going (currently experiencing problem)</b>
<b>What would you like to see happen?</b>	

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<i>Please return this form to:</i>			
Name and surname	Irena Paunovikj	Goran Andonov	-----
E-mail	<a href="mailto:irena.paunovikj.piu@mtc.gov.mk">irena.paunovikj.piu@mtc.gov.mk</a>	<a href="mailto:andonov_goran1990@yahoo.com">andonov_goran1990@yahoo.com</a>	-----
Institution	Ministry of Transport and communications Local Roads Connectivity Project St. Dame Gruev 6,1000 Skopje, R. N. Macedonia	Municipality of Vasilevo	Contractor Company

Annex 5 Minutes of meeting of the public hearing/ video conference for the ESMP project for the Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci in Municipality of Vasilevo

## Minutes of meeting

from a public hearing / video consultation on the document in order to inform the citizens and stakeholders about the activities envisaged by the Local roads connectivity project in RNM and the document Environmental and Social Management Plan (ESMP) for upgrading a local road connecting s. Novo Vladevci and s. Staro Vladevci in the Municipality of Vasilevo  
held on **02.10.2020**

### *Agenda*

1. Presentation of the "Local roads connectivity project in RNM"
2. Presentation of the "Environmental and Social Management Plan"
3. Questions and Discussion

Addressing the situation with the KOVID 19 pandemic in the country, and fulfilling the measures of the competent government institutions, the Ministry of Transport and Communications in consultation and cooperation with the World Bank organized a video consultation in order to provide public presentation of the planned project activities and the prepared document. The interested public was enabled to attend and actively participate in the video presentation.

The invitation for the public hearing / video consultation as well as the relevant documents were posted on the website of the Ministry of Transport and Communications <http://mtc.gov.mk/proekt%20za%20loklani%20patista%20lrpc/test-7> and on the website of the Municipality of Vasilevo <http://opstinavasilevo.gov.mk/?p=8650> thus, the interested public had the opportunity to inspect the documents and getting to know the planned project activities for the construction of the local road. (Annex 1).

Representatives from the Ministry of Transport and Communications, representatives from the World Bank office in Skopje, as well as representatives from the Municipality of Vasilevo, , representatives from the settlements (Annex 3 and Annex 4 of the document provide photos and List of attendees who attended the video conference) attended the public hearing / video consultation. The public hearing / video consultation took place on October 2 2020 starting at 10:00 AM, in accordance with the established agenda given in Annex 2.

The video consultation was started by Ms. Irena Paunovic as a representative of MTC who briefly presented the local roads connectivity project in RNM, emphasizing the main goals that will be achieved with its implementation, but also the benefits for the inhabitants of the settlements Novo Vladevci and Staro Vladevci in Vasilevo.

The prepared environmental social management and plan (ESMP) for upgrading a local road connecting s. Novo Vladevci and s. Staro Vladevci in the Municipality of Vasilevo was presented by the Expert for environmental protection and social aspects, Mrs. Slavjanka Pejcinovska - Andonova. A brief overview was given to the main receptors that will be subject to influence from the implementation of project activities, the measures proposed for their mitigation including those for protection against COVID 19, responsible persons who will monitor the implementation of the proposed measures, the Grievance Mechanism comprise the Comment Form of the prepared document and the Complaints Form of the performance activities.

As there were no remarks or questions from the present representatives of the municipal administration and the settlements affected by the project activities, Ms. Irena Paunovic declared the public hearing over at 11 am, wishing the successful realization of the project activities within the planned dynamics. In Annex 4 of the document are attached photos from the held public debate / video presentation.

Prepared,

Marija Nikoloska

## Annex 1 Announcement for holding a public hearing on "Environmental Social Management Plan"



Republic of North Macedonia  
Ministry of Transport  
and Communications

Republic of North Macedonia  
Ministry of Transport and Communications  
Local Roads Connectivity Project



### ANNOUNCEMENT

**For document availability and public hearing/video consultation for the document "Environment and Social Management Plan" for upgrading a local road connecting s. Novo Vladevci and s. Staro Vladevci in the Municipality of Vasilevo within the Local Roads Connectivity Project in RNM**

Within the "Local Roads Connectivity Project" realized by the Ministry of Transport and Communications with financial support of the World Bank, and for the purposes of improving the local road infrastructure, the Municipality of Vasilevo has submitted an application with a project for upgrading a local road connecting s. Novo Vladevci and s. Staro Vladevci in the Municipality of Vasilevo.

In accordance with the requirements of the World Bank, the document "Environment and Social Management Plan" was prepared, which analyzed the environmental and social impact resulting from the project's realization.

The document "Environment and Social Management Plan" shall be made publicly available at the websites of: Ministry of Transport and Communications (<http://www.mtc.gov.mk>) and the Municipality of Vasilevo (<http://opstinavasilevo.gov.mk/>) on **24 September 2020** year.

Your comments can be submitted within 14 days as of the day of posting of the documents on the website.

In order to present the main findings of the developed document "Environment and Social Management Plan", the Ministry of Transport and Communications and the Municipality of Vasilevo shall organize a public hearing, which due to the situation with COVID 19 will take place through a video conference on **October 02 (Friday) 2020 starting at 10 pm**.

All interested persons should submit an application for participation by e-mail to the following address: [irena.paunovikj.piu@mtc.gov.mk](mailto:irena.paunovikj.piu@mtc.gov.mk), no later than **1 October (Thursday) 2020, until 15 am**. Please register/connect to the link that will be delivered to your e-mail address to participate in the event.

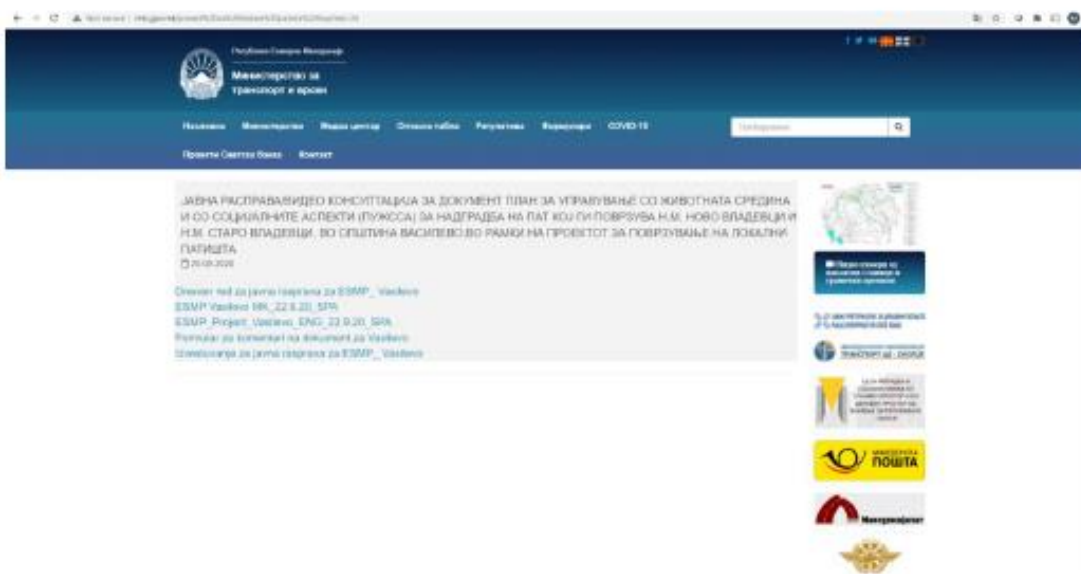
**Ministry of Transport and Communications**



### Notification and Announcement for holding a public hearing on the website of the Municipality of Vasilevo



### Notification and Announcement for holding a public hearing on the website of the Ministry of Transport and Communications



## Annex 2 Agenda for public debate / video presentation of ESMP for the Municipality of Vasilevo



Republic of North Macedonia  
Ministry of Transport  
and Communications

Republic of North Macedonia  
Ministry of Transport and Communications  
Local roads connectivity project



### **Agenda**

**For the public hearing / video consultation on the document  
Environmental and Social Management Plan (ESMP) for upgrading a local road  
connecting s. Novo Vladevci and s. Staro Vladevci in the Municipality of Vasilevo  
within the Local Roads Connectivity Project (LRCP) in RNM**

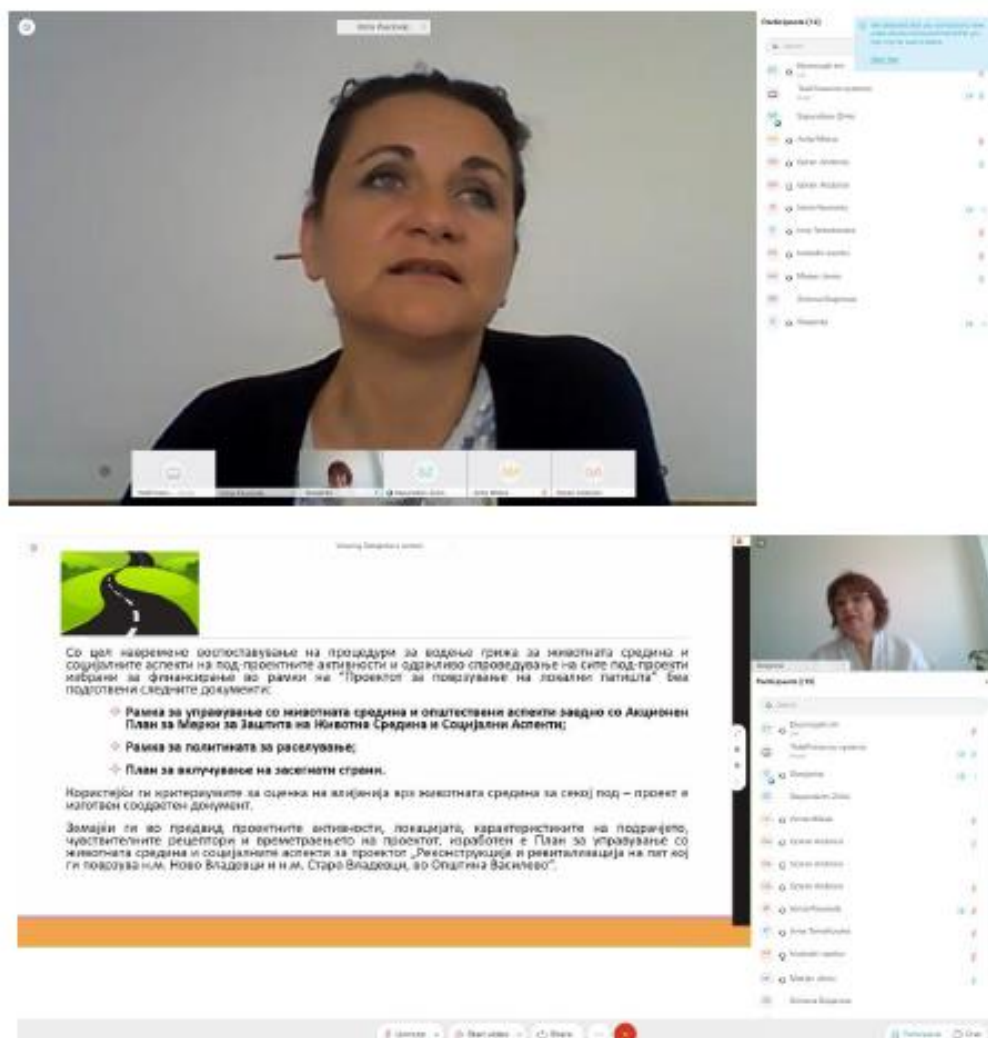
We invite you to a public hearing / video consultation for the document Environmental and Social Management Plan (ESMP) for upgrading a local road connecting s. Novo Vladevci and s. Staro Vladevci in the Municipality of Vasilevo, within the Local Roads Connectivity Project (LRCP) which will be held on October 2, 2020 (Friday ) starting at 10 pm with the next agenda:

1. Introductory presentation by a representative of the Ministry of Transport and Communications on the Local Roads Connectivity Project; - 10 minutes
2. Brief overview of the project activities by a representative of the Ministry of Transport and Communications; - 15 minutes
3. Brief review of the document "Environmental and Social Management Plan of the project" (MSc Slavjanka Pejcinovska Andonova, Environmental Expert); - 20 minutes
4. Discussion.

Date, 25 September 2020

**Ministry of Transport and Communications**

Annex 4 Photos from a public hearing / video presentation



Meeting: 08/04/2024

### Карта на чувствителни области во поширокото опкружување на проектната локација во Општина Василево

Во пошироката околна на локацијата на проектните активности се забележани:

- ЗП „Мокошето“ се наоѓа на околу 17,8 km југоисточно од проектната локација;
- ЗП „Село Митва и речка Лисовица“ (19 km северозападно од проектната локација);
- Емerald падина „Мокошето Блато“ (17,8 km југоисточно од проектната локација); и
- Споменик на природата „Ново Чифлево“ (9,8 km југоисточно од проектната локација).

Participants (12):

- Емануела Јан.
- Емануела Јанковиќ
- Емануела Јанковиќ
- Андреј Јанковиќ
- Снежана Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ

Meeting: 08/04/2024

### План со мерки за превенција и ублажување на клијането на проектот преку животната средина (1)

Категорија	Мерка	Мерководство / Објаснување	Контрола
Социјална средина	1. Информирање на населението	1.1. Информирање на населението за проектот преку медиумите и социјалните медиуми.	1.1.1. Информирање на населението преку медиумите и социјалните медиуми.
	2. Заштита на културното наследство	2.1. Заштита на културното наследство преку информирање на населението.	2.1.1. Заштита на културното наследство преку информирање на населението.
Животна средина	3. Заштита на животната средина	3.1. Заштита на животната средина преку информирање на населението.	3.1.1. Заштита на животната средина преку информирање на населението.
	4. Заштита на водните ресурси	4.1. Заштита на водните ресурси преку информирање на населението.	4.1.1. Заштита на водните ресурси преку информирање на населението.
Земјоделство	5. Заштита на земјоделството	5.1. Заштита на земјоделството преку информирање на населението.	5.1.1. Заштита на земјоделството преку информирање на населението.
	6. Заштита на животните	6.1. Заштита на животните преку информирање на населението.	6.1.1. Заштита на животните преку информирање на населението.

Participants (12):

- Емануела Јан.
- Емануела Јанковиќ
- Емануела Јанковиќ
- Андреј Јанковиќ
- Снежана Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ
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- Александар Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ
- Александар Јанковиќ

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)  
Project: Upgrading of local road connecting s. Novo Vladevci – s. Staro Vladevci, in Municipality of Vasilevo

The image shows a video conference interface. On the left, a presentation slide is displayed with the title "Образец из документарной информации" (Sample from documentary information). The slide contains text in Cyrillic and a table with columns for "Инициатор" (Initiator), "Содержание" (Content), and "Сроки" (Deadlines). The table lists various activities and their corresponding dates. On the right, a video feed shows a woman with short brown hair, wearing a white top, speaking. Below the video feed is a "Participants (22)" list with names and status icons. At the bottom of the screen, there is a control bar with icons for "Mute", "Unmute", "Share", "Close", "Fullscreen", and "Chat".