



ROADS DEPARTMENT OF GEORGIA

MINISTRY OF REGIONAL DEVELOPMENT AND INFRASTRUCTURE

Environmental and Social Management Plan

Secondary Roads Asset Management Project

Sh16: Kutaisi-Alpana-Mamisoni pass Road (Sh16)

Rehabilitation km 86 – km 86.7

Georgia

2020





PART I: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL & AI	OMINISTRATIVE				
Country	Georgia				
Project title	Rehabilitation of Kutaisi-Alpana-Mamisoni (sh16) road section from km 86 – km 86.7				
Scope of project and activity	On the basis of the results of comprehensive engineering assessment of the current state of the road network and surveying the geological and geodynamic conditions of road-section km 86 – km 86.7 of Kutaisi-Alpana-Mamisoni Road (Sh16), the relevant anti-erosion measures have been determined. The project envisages arrangement a new rectangular reinforced concrete culvert (inlet X-348603.940 Y-4709923.327 outlet X-348615.675 Y-4709936.895) with intersection of 2.5mX1.5m, instead of existing d=1.0m culverts which require increasing of current capacity. Construction of the new pipe will streamline the problem of channel and ditch water diversion and will eliminate overflow water from the ditch and				
	impacts of the climate change.	leasures will better adapt the road	i minastructure to the expected		
	The works for drainage culvert rearrang	gement includes:			
	 project Removal of asphalt-concrete 	ete pavement and its disposal;			
	 Dismantling of existing tranches, removal 	concrete head structures and barre	ls of existing pipes and their		
	 Cutting of the land before and after the existing pipe to river Rioni for arrangement of the head structures and barrel of a new culvert; and removal of cut off land; Arrangement of rectangular monolithic reinforced concrete pipe 2.5X1. Hydro isolation of pipes' walls and roofing and arrangement of monolithic reinforced concrete wingwalls and stone aprons; 				
Institutional	Project Team Leader	Safeguard S	upervision		
arrangements		Darejan Kapanada	ze, <i>Environment</i>		
(World Bank)	Aymen A. Osman Ali	Sophia Georg	gieva, <i>Social</i>		
Institutional	Project Manager	Local Counterpart Supervision	Contractor		
arrangements (Borrower)	Giorgi Tsereteli, Consultant to Roads Department	(if different from employer) (not defined)	(Not Defined)		
SITE DESCRIPTION					
Name of site	Kutaisi-Alpana-Mamisoni (Sh16) road s	section from km 86 – km 86.7			
Describe site location	The road starts at km 86 of Kutaisi-Alpana-Mamisoni road and ends at km 86.7 of the same road. The road section is Located in 600 meters from the bridge crossing over the Rioni River in town Ambrolauri. The town is located in the western part of the country, on both banks of the Rioni river, at the elevation of 550 m above sea level. It is a self-governing city and at the same time, serves as the seat of the Racha-Lechkhumi and Kvemo Svaneti regional administration and of the Ambrolauri Municipality. The population of the town is 2,047 (men 959, Women 1088). There are provided fuel stations, catering facilities and shops in the vicinity of the site. The land plots where rehabilitation works will be implemented are free form any structures/ buildings of commercial and/or residential designation.				
Who owns the land?	The existing ROW is owned by Ambro	lauri Municipality.			
	Rehabilitation works on the road will not have any negative impact on privately-owned/used land as the project site and its surrounding is free from privately owned assets.				
Description of	Location: The project road section start	ts at km 86 and ends at km 86.7 K	utaisi-Alpana-Mamisoni (Sh16)		
geographic, physical,	road. The road section located on the ri	ght floodplain I terrace of the Rive	er Kioni.		
hvdrographic and	Geomorphology: The rehabilitation si	tes of Kutaisi-Alhana-Mamisoni	Secondary road is completely		
, Brahme and	located on the right slope of river Rion	i valley, except the section running	g through the town Oni, where		





<u>Relief</u>: The rot surface of whi slope of the go the river Rior canalled artific	ad section within the site is located on the right floodplain I terrace of the River Rioni, the ich is little elevated because of the proluvial sediments of the erosive ravine on the right orge. The terrace surface is generally leveled and has the little inclination to the South, to ni. The water isolated from the gorge (that flows only in the precipitate period) has the cial bed, the depth and width of which dos not increase 1.5-2 meters. In the micro relief of
the territory a	lso are mentioned other artificial small trenches and earth fills in different places.
Geological stru alluvial gritsto formations (p(ucture: From the geological point of view the territory of the site is structured with the one-gravel deposits (aQIV) of the River Rioni floodplain I terrace and with the proluvial clay QIV) deposited over them.
Ground Water the depth of 5. level. So the si of the ground waters" that w site.	<u>rs</u>: In the well #17 the ground waters are revealed at the depth of 5.4m.; in the well #18 at 5 m. Supposedly, the level of the ground water is on the hypsometric depth with the river gnificant water flow is expected while treating the construction pit deeper than the level water. Above the mentioned level may be expected light revealing of so called "upper pore rill be related with the direct infiltration of atmospheric precipitation on the construction
Geodynamic co site there show the right slope The water stree narrow upper Periodically th the section of new pipe with and releasing	onditions and associated stabilization measures: Among the geodynamic phenomena on the ald be mentioned the periodical mountain stream from the erosive gorge formed only in e of the Rioni ravine during the long-term atmospheric precipitation and snow melting. eam contains the significant volume of stones and clay mass that after isolation from the part of the gorge are deposited on the surface of the cone that is formed time by time. he large debit of mountain stream is deposited in the gorge and they cannot pass through the existed pipe (it is almost completely filled with the sliding ground in present). Thus a larger section is to be arranged there that will be able to drain the stream with more debits from the deposits will be possible.
Climate: Acco sub region "b" 3.1°C (1.1°C) in maximum is + <u>Air</u> : Air qualit <u>Water and Soi</u> <u>Flora</u> : Vegetat impact is expe	rding to the construction-climate zoning the territory of the road section belongs to the of II climate region. The average annual air temperature for the area is + 5.5°C (11.2°C), - n winter, and 15.4°C (20.6°C) in summer. The absolute minimum is -27°C and the absolute 38°C. The total amount of precipitation is 1,075 mm/year. y in the project area is good due to low traffic levels and absence of industrial facilities. 1 : No pollution is reported. ion of the area though the road passes is mainly composed by bushes. No tangible adverse cted on the vegetative cover.
Fauna: The pro- and only some any special pro-	oject road pass through the urban territory and accordingly the fauna species are not met e family pets and livestock species may be met along the road section, which does not need otecting measures.
Noise: The cur Construction a impact will be Social/ Involu	rrent noise level is low due to low intensity of traffic and lack of industrial facilities. activities will have modest impact on people residing along this road section and this limited to the construction and periodic maintenance phases. htary Resettlement :
No land take i private lands, and privately-	s required for undertaking rehabilitation of the road section. No temporary impact on fences or other assets is expected along this road section as territory is free from population owned lands.





Locations and	Information about material resources near the project road:		
distance for material	Description Location		
sourcing, especially	River (Sand-gravel) Quarry Village Chrebello, Ambrolauri Municipality		
inert aggregates, water, stones	Balk StonesVillage Kursebi, Tkibuli Municipality		
LEGISLATION			
Identify national & local legislation &permits that apply to project activity	 SRAMP is implemented in accordance with the World Bank's safeguard policy OP/BP 4.01 - Environmental Assessment. Based on this policy, present subproject is classified as environmental category "B". The following Plan for Environmental and Social Management is prepared according to the principles defined by OP/BP 4.01 and Environmental and Social Management Framework of SRAMP. Under the Georgian legislation, works for road rehabilitation project does not require assessment of an environmental impact, approval, or issuance of a permit/Environmental decision. However, with the national regulation system: i) Contractor company must be licensed; ii) Construction materials must be obtained from licensed providers, iii) If the Contractor wants to open a quarry, an appropriate license must be obtained from the National Agency of Mines under the Ministry of Economy and Sustainable Development; iv) If the Contractor wants to open its own plant of asphalt or concrete (or both), an environmental decision, which will cover the upper limit of pollution concentration; v) Construction waste should be disposed at the official landfill based on the agreement with the Solid Waste Management Company or placed at the pre-selected site officially agreed with local self-government. 		

GRIEVANCE REDRESS MECHANISM

A grievance redress mechanism will be available to allow project effected people appealing any action or decision on which they disagree.

The APs will be informed about the available GRM during public consultations and through distributing of brochures prior to commencement of works. In addition, an announcement with relevant information will be displayed on the information boards in the lobbies of buildings of each and every project-affected municipality. APs will be fully informed of their rights and of the procedures for addressing complaints either verbally or in writing during pre-contraction, construction and operation periods. Care will always be taken to prevent grievances rather than going through a redress process.

Mr. Giorgi Gagoshidze, Head of Spatial Arrangement and Infrastructure Department of Ambrolauri Municipality

Mobile Phone: 595445244; e-mail: gialo.ggg@gmail.com

The Contact Person shall collect and record the grievances in a special log.

If the grievance remains unsolved at the local level, it will be lodged to the RDMRDI. For any information and advice, RD nominated following persons:

1. Mariam Begiashvili - Social Safeguards Consultant

Mobile Phone 577 74 40 88; 555 400 205; e-mail: mbegiashvili2@gmail.com

2. Maya Vashakidze – Environmental Safeguards Consultant;

Mobile Phone: 593 32 30 77 e-mail: maya_vashakidze@yahoo.co.uk

Roads Department of RDMRDI: 12 Kazbegi str., Tbilisi, Georgia

Grievance Redress Commission (GRC) is formed by the order of the Head of RDMRDI as a permanently functional informal structure, engaging personnel of RDMRDI from all departments. This includes top management, Safeguards, Legal Departments, PR department and other relevant departments (depending on specific structure of the IA).

If the RDMRDI decision fails to satisfy the aggrieved APs, they can pursue further action by submitting their case to the appropriate court of law (Rayon Court) without any reprisal.

PUBLIC CONSULTATION





Identify when / where	Environmental and Social Management Framework for the Secondary Road Asset Management
the public consultation	Project was disclosed through the RDMRDI web page and the stakeholder consultation meeting was
process will take place	held on 14/07/2015.
	The present ESMP was uploaded on the RDMRDI website on July 20, 2020 and the hard copies were provided to Amrolauri Municipality. Public consultation on the draft ESMP was held in Ambrolauri Municipality on August 26, 2020. In agreement with the current regulations aimed at preventing spread of COVID-19 infection imposed by the government of Georgia and recommendation of WHO by the time of consultation, social distancing was observed in the meeting space. Records of the public consultation process are attached to the present ESMP.
ATTACHMENTS	
Attachment 1: Project loc	ation map;
Attachment 2: Minutes of	f public consultation on the draft ESMP

Attachment 3: Waste disposal agreement (<u>to be provided by contractor</u>);

Attachment 4: Borrowing license (as applicable, to be provided by contractor);

Attachment 5: Asphalt plant operation agreement (as applicable, to be provided by contractor);

Attachment 6: Others as required.





PART II: SAFEGUARDS SCREENING AND TRIGGERS

ENVIRONMENTAL /SOCIAL SCREENING FOR SAFEGUARDS TRIGGERS						
	Activity/Issue	Status	Triggered Actions			
	1. Roads rehabilitation	[X] Yes [] No	If "Yes", see Section A			
	2. New construction of small traffic infrastructure	[] Yes [X] No	If "Yes", see Section A			
	3. Impacts on surface drainage system	[X] Yes [] No	If "Yes", see Section B			
	4. Historic building(s) and districts	[] Yes [X] No	If "Yes", see Section C			
Will the site activity	5. Acquisition of land ¹	[] Yes [X] No	If "Yes", see Section D			
following?	6. Hazardous or toxic materials ²	[] Yes [X] No	If "Yes", see Section E			
	7. Impacts on forests and/or protected areas	[] Yes [X] No	If "Yes", see Section F			
	8. Risk of unexploded ordinance (UXO)	[] Yes [X] No	If "Yes", see Section G			
	9. Traffic and Pedestrian Safety	[X] Yes [] No	If "Yes", see Section H			
	10. Impacts on land property and use	[] Yes [X] No	If "Yes", see Section I			
	11. Social risk	[X] Yes [] No	If "Yes", see Section J			

¹ Land acquisition includes displacement of residents, change the way of life, this is concerning with land which was purchased/handed over and impact on persons living and/or unlawfully exist and or/performing business activities (Booths) on the land already purchased.

² Hazardous or toxic materials contain, but is not limited to: asbestos, toxic paints, hazardous dissolvent materials, removal of lead containing materials and etc.





PART III: MITIGATION MEASURES

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
0. General Conditions	Notification and Worker Safety	 a) Notify local construction and environment inspectorates and communities on the upcoming activities; b) Notify public on the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works); c) Obtain all legal permits for road construction works; d) Provide personnel with workers' personal safety equipment in compliance with international standards (should always wear belmets, masks and safety sunglasses, protective shoes);
		 e) Post relevant warning and reminding signs with information on environmental, health and safety code of conduct in the visible locations of the work site; f) Post contact information around work site in the locations visible to local communities enabling project-affected people to raise questions and voice grievances.
A. General Rehabilitation and /or Construction Activities	Air Quality	 a) Apply precautionary measures to avoid excessive dust emission during earth works and materials loading-unloading (e.g., restriction material dropping from a big height during loading-unloading); b) Keep demolition debris, excavated soil and aggregates in controlled area and sprayed with water mist to reduce debris dust; c) During pneumatic drilling or breaking of pavement and foundations, suppress dust by ongoing water spraying and/or installing dust screen enclosures at site; d) Keep free the surrounding environment (sidewalks, roads) free of soil and debris to minimize dust; e) Disallow open burning of construction/waste material at the site; f) Keep machinery in compliance with the regulations of the emission origin, proper technical repairs should be ensured, and the pitch shall be free from unnecessary construction machinery.
	Noise	 a) Limit construction noise to daytime; b) Apply additional noise management arrangements in the vicinity of schools and hospitals; c) During operations, keep engine covers of generators, air compressors and other powered mechanical equipment closed, and place equipment as far away from residential areas as possible
	Water Quality	a) Establish appropriate erosion and sediment control measures such as e.g. hay bales and / or silt fences to prevent sediment from moving off site and nearby streams and rivers.





ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
	Waste management	 a) Pre-identify and obtain formal permissions/agreement on the waste collection and disposal pathways and sites for all major waste types expected from excavation, demolition and construction activities; b) Separate mineral garbage / wastes remaining for construction and dismantling from general, organic, liquid and chemical waste and to be sorted in containers;
		c) Dispose all types of waste strictly according the existing formal agreements and exclusively to the designated locations;d) Reuse and recycle non-toxic wastes to the extent possible.
B. Impacts on surface drainage system	Water Quality	 a) Do not undertake uncontrolled extraction of groundwater, nor uncontrolled discharge of wastewater, cement slurry, or other polluted waters into surface water bodies or natural environment in general; obtain necessary licenses and permits for water extraction and regulated discharge prior to commencement of activity;
		b) Install and operate proper storm water drainage systems; ensure that they do not fill up with silt, do not pollute, block or otherwise negatively impact natural streams, rivers, ponds and lakes;
		c) Introduce and follow procedures for prevention of and response to accidental spills of fuels, lubricants and other toxic or noxious substances;
		d) Wash construction vehicles and machinery only in designated areas where runoff will not pollute natural surface water bodies.
C. Historic building(s)	Cultural Heritage	 a) In case the construction is carried out near historical buildings or in the historical area, the notification and acceptance / consent from local government organs shall be taken. All types of construction work should be planned and implemented in accordance with local and national legislation. b) In case of land excavation or findings of ancient times or other possible archaeological items, it is necessary to record and register the facts of responsible official agencies and to suspend or reverse the works by taking into consideration circumstances.
D. Acquisition of land	Land Acquisition Plan/Framework	 a) If land take is required for undertaking works in a given site, do not enter this site until receipt of a formal notice from the Employer on the completion of resettlement and payment of compensations. Works are authorized after approval of the resettlement completion report by the Employer and the World Bank; b) In case of public complaints on incomplete or improper resettlement/compensation, take all activity on hold, enter complaints into log book and immediately inform the Employer. Do not resume works until formal notice from the Employer.
E. Toxic materials	Asbestos management	a) If asbestos is located on the project site, it shall be marked clearly as hazardous material b) When possible of asbestos will be appropriately contained and sealed to minimize exposure





ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
		 c) Asbestos prior to removal (If necessary) will be treated with a wetting agent to minimize asbestos dust d) Asbestos will be handed and disposed by skilled & experienced professionals e) If asbestos material is stored temporarily, the waste should be securely enclosed inside closed container and marked appropriately. Security measures will be taken against unauthorized removal from the site. f) Removal of asbestos will not be reused
	Toxic / hazardous waste management	 a) Temporarily storage on site of all hazardous or toxic substances will be in safe containers labeled with details of composition, properties and handling information b) Containers of hazardous substances shall be placed in a leak-proof container to prevent spillage c) Waste shall be transported by specially licensed carriers and disposed in licensed facility d) Paints with toxic ingredients or solvents or lead-based paints will not be used
F. Affected forests, wetlands and/or protected areas	Ecosystem protection	 a) (A) It is inadmissible to carry out works on the territories belonging to the State Forest Fund until the completion of the removal procedure b) Cutting of trees should be minimized, through the regulation of access roads, as well as by using of small capacity equipment and manual works. c) All trees that have to be extracted must be marked and their removal must be entered into tree-cutting ledger on daily basis
G. Risk of unexploded ordinance (UXO)	Hazard to human health and safety	a) Before to start any excavation activities, Contractor shall verify that the construction area has been checked and cleared regarding UXO by appropriate authorities
H. Traffic and pedestrian safety	Direct or indirect hazards to public traffic and pedestrians by construction activities	 In compliance with national regulations, ensure that the construction site is properly secured, and construction related traffic regulated. This includes but is not limited to: a) Use signposting, warning signs, barriers and traffic diversions so that the work site is clearly visible, and the public warned of all potential hazards; b) Apply traffic management system and train staff, especially for site access and near-site heavy traffic; provide safe passages and crossings for pedestrians where construction traffic interferes; c) Adjust working hours to local traffic patterns, avoid major transport activities during rush hours or times of livestock movement; d) If required, undertake active traffic management by trained and visible staff at the site for safe passage for the public; e) If school children are in the vicinity, include traffic safety personnel to direct traffic during school hours; f) Ensure safe and continuous access to all adjacent office facilities, shops and residences during construction.
I. Impacts on land property and	Limited/lost access to	a) Ensure provision of undisturbed and safe access to homes, lands and other assets of the local population;





ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
use	the land	b) Plan road works to maintain undisturbed access to land and assets of the local population by planning and implementing works and activities in coordination with residents and representatives of the local community.
	Temporary impact on privately-owned assets	a) Avoid trespassing or incidentally damaging of private property (using small-size machinery or manual labor near walls and fences, stockpiling of construction material and waste away from private property; etc.);
		b) In case of unintended damage to private property, quickly restore it to the original or better status;
		c) In case of expected temporary impact on privately-owned property, inform owners upfront and guarantee restoration, acquire written consent of owners for intervention, and promptly restore the damage to the original or better status;
		d) If an unexpected need for land take emerges in the couse of works, do not enter the affected site prior to development and full implementation of the Resettlemet Action Plan by RD
	Loss of income or	a) Avoid unauthorized intervention of territory outside of ROW;
	assets caused by unauthorized intervention, occupation of territory outside of ROW	 b) If such impact occurs by negligence of the construction company workers, record the case/claim; assess the loss and negotiate with an affected owner based on the adopted principles and valuation methodology described in the RAP and provide fair cash compensation at the Company's own cost; c) Apply GRM procedures if the case is unresolved through negotiation.
J. Social Impact	Public relationship management	 a) Assign local liaison person who is in charge of communication with and receiving requests/ complaints from local population; b) Consulted local communities to identify and pro-proactively manage potential conflicts between an external workforce and local people; c) Raise local community awareness about sexually disease risks associated with the presence of an external workforce and include local communities in awareness activities; d) Inform population about construction and work schedules, interruption of the services, traffic detour routes and provisional bus routes, blasting and demolition, as appropriate; e) Limit construction activities at night. When necessary, carefully schedule night-time works and inform affected community so they can take necessary measures; f) At least five days in advance of any service interruption (including water, electricity, telephone, bus routes), advice affected community through postings at the project site, at bus stops, and in affected homes/businesses.





ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
	Labor management	a) To the extent possible, locate work camps away from local communities;
		b) Undertake sitting and operation of worker camps in consultation with neighboring communities;
		c) Recruit unskilled or semi-skilled workers from local communities to the extent possible. Where and when
		feasible, provide worker skills training to enhance participation of local people;
		d) Provide adequate lavatory facilities (toilets and washing areas) in the work site with adequate supplies of
		hot and cold running water, soap, and hand drying devices. Provide separate WC facilities where male and
		female workers are employed. Establish temporary septic tanks for any residential labor camp and without
		causing pollution of nearby watercourses;
		e) Raise awareness of workers on overall relationship management with local population. Establish the code
		of conduct in line with international practice, ensure that all workers are aware of it, have read and signed
		off the code of conduct, and strictly enforce it, including the dismissal of workers and financial penalties of
		adequate scale;
		f) Ensure availability of grievance mechanism for workers on labor-related issues;
		g) Immediately report to Employer on any incidents/accidents, which are related to the provision of works
		and have caused damage to human and/or environmental health.





PART IV: MONITORING PLAN

CONSTRUCTION PHASE

Activity	What	Where	How	When	Why	Who
	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Define the frequency / or continuous?)	(Is the parameter being monitored?)	(Is responsible for monitoring?)
Supply with construction materials	Purchase of construction materials from the officially registered suppliers	In the supplier's office or warehouse	Verification of documents and quality	During conclusion of the supply contracts	Ensure technical reliability and safety of infrastructure	RD
Transportation of consrtruction materials and waste	Technical condition of vehicles and machinery;	Construction materials and construction waste	Inspection of movement routes of the construction	Unannounced inspections during work hours and	Limit pollution of soil and air from emissions;	RD
Movement of construction	Confinement and protection of truck loads with lining;	transportation routes	vehicles and machinery	beyond	Limit nuisance to local communities from noise and vibration;	Traffic Police
machinery	Respect of the established hours and routes of transportation				Minimize traffic disruption.	
Operation of construction machinery on site	Proper condition of Construction equipment: - surplus emissions - Fuel-lubricant - Working hours security - Damage of Tree plant if it is not	Construction Sites	Inspection of the works	In and after working hours	Reduce the air and soil contamination during equipment operation; Limit the disturbance of the population with	RD
	considered for the road construction				noise and vibration	
Servicing of construction machinery	Washing vehicles and machinery off-site of in the location sufficiently distant from water bodies; Servicing vehicles and machinery with oils and lubricants off-site or in	Construction site and construction base (if applicable)	Inspection	Entire period of machinery operation	Avoid land and water pollution with oil products due to servicing of vehicles and machinery;	RD





Activity	What	Where	How	When	Why	Who
	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Define the frequency / or continuous?)	(Is the parameter being monitored?)	(Is responsible for monitoring?)
	 an especially arranged location on- site; Technical adequacy of the servicing location: solid, insulating floor or adsorbent layer (sand, gravel, membrane), containment barriers allowing enough space for holding fuel over the maximum amount expected on the location at a time, emergency fire-fighting kit, sedimentation pool at car wash area. 				Be ready for fire emergency action to promptly localize fire source and minimize material damage	





Activity	What	Where	How	When	Why	Who
	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Define the frequency / or continuous?)	(Is the parameter being monitored?)	(Is responsible for monitoring?)
Purchasing of natural construction materials	Purchase of material from the existing suppliers if feasible; Obtaining of extraction license by the works contract and strict compliance with the license conditions; Terracing of the borrow area, backfilling to the exploited areas of the borrow site, and landscape harmonization; Excavation of river gravel and sand from outside of the water stream, arrangement of protective barriers of gravel between excavation area and the water stream, and no entry of machinery into the water stream. Marking of the Quarries with	Quarries	Checking of documents Inspection	During extraction of materials	Limiting erosion of slopes and degradation of ecosystems and landscapes; Limiting erosion of river banks, water pollution with suspended particles and disruption of aquatic life; Protection of cattle and population from damage.	RD LEPL National Agency of Mines under the Ministry of Economy and Sustainable Development of Georgia
Generation of construction waste	Temporary storage of construction waste in especially allocated areas; Timely disposal of waste to the formally designated locations Delivery of hazardous wastes for companies with disabilities and disposal licenses	Construction site; Waste disposal site; Proper territories assigned for the waste disposal.	Visual Inspection and inspection of Documentation	During whole construction period	Prevent pollution of the construction site and nearby area with solid waste	RD





Activity	What	Where	How	When	Why	Who
	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Define the frequency / or continuous?)	(Is the parameter being monitored?)	(Is responsible for monitoring?)
Accumulation of household waste	Placement of containers to collect household waste on construction site (if exist); Agreement with local municipalities regarding the regular disposal of household waste	construction site (if exist);	Visual Inspection	During whole construction period	To avoid pollution of soil and water with domestic waste.	RD
Generation of liquid waste	Arrangement of a toilets matching the sanitary norms on the construction site (if exist); Arrangement and periodic cleaning of the drainage system for the collection and flow of rain water from the construction site; Construction of Sedimentation Basin for water used for household and equipment	construction site (if exist);	Visual Inspection	During whole construction period Frequently In case of strong sedimentation	Prevent the flooding of the construction site and to hinder the activity; Minimize surface and groundwater contamination	RD
Operation of asphalt-concrete plant	Obtaining of environmental conclusion and adherence to its conditions; Selection of such a place to install the plant that ensures minimal disturbance of the population by noise, dust and emissions; Arrangement of several sedimentation basins for the water outflowing from the factory.	Plant Territory	Visual Inspection and inspection of Documentation	During installation and operation period of the plant.	Minimize disturbance of the local population near the construction site; Minimize air, surface and ground water contamination	RD LEPL National Environment Agency of the Ministry of Environment Protection and Agriculture





Activity	What	Where	How	When	Why	Who
	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Define the frequency / or continuous?)	(Is the parameter being monitored?)	(Is responsible for monitoring?)
Safety of labor	Provision of uniforms and personal protective gear to workers and enforcement of their use;	Construction site	Inspection of the activities	Entire period of construction	Reduce the probability of accidents	RD
	Consistency with the rules of exploitation of the construction equipment and machinery;					
	Presence and use of viable GRM for construction contractor's personnel;					
	Maintenance of adequate sanitary conditions at work bases/sites,					
	including provision of separate WCs if both men and women are employed.					





OPERATION PHASE

Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
Maintenance of the road carriageway and shoulders Maintenance of arranged hydro technical structures	Regular collection and disposal of waste from rehabilitation works Regular collection and disposal of domestic waste left by passengers and driver; The timely removal of animal wastes on the road	Adjacent territories of the road and side ditches	Inspection	Quarterly	For the protection of the nature. In order to ensure safe movement of the traffic To maintain drainage system To prevent flooding of the road and avoid water damage	RD
Maintenance of drainage system	Regular cleaning of culverts from sewage and household waste	Side ditches along the roads	Visual Observation	Quarterly	To maintain drainage system To prevent flooding of the road and avoid water damage	RD





Activity	What	Where	How	When	Why	Who
	(Is the parameter to be	(Is the parameter to be	(Is the parameter to be	(Define the frequency / or	(Is the parameter being	(Is responsible for
	monitored?)	monitored?)	monitored?)	continuous?)	monitored?)	monitoring?)
Addressing accidental spillage on the road	Timely localization, collection, decontamination and disposal of waste or emitted liquid or loose cargo waste during a road accident	On the road and on the adjacent territories	Checking	During the road accidents, according to the necessity	To prevent the contamination of the nature	RD Patrol Police





ATTACHMENT 1: PROJECT LOCATION MAP Sh -17: Rehabilitation Road Section: km 86 – km 86.7



















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	0+40.00	348704,910	4709995,840	565,300	-0,70	
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Attachment 2:

MINUTES

Of public consultation meeting on Environmental and Social Management plan for Rehabilitation of Secondary Roads Asset Management Project

Sh16: Kutaisi-Alpana-Mamisoni pass Road KM101.5 - KM 105, KM 78.5 - KM, 82KM 94 - KM 95, KM 86 - KM 86.7,

Sh17: Kutaisi-Tkibuli-Ambrolauri Road KM 49 - KM 50.3, KM 61.9 - KM 62.2, KM 44 - KM 46, KM 60.3 - KM 61.5

26.08.2020

Ambrolauri Municipality

Chairman of meeting - Gia Sopadze, Deputy Head of Environmental and Social Issues Division

Speakers: Gia Sopadze,

Attendees of the Meeting: See attachment 1

The goal of the public discussion was to inform the local communities about the purpose of the upcoming works, their timeline; temporary inconvenience expected from the construction works; and planned measures for mitigating the expected negative environmental impact. Local stakeholders had possibility to ask questions and express their opinion during the public discussion, so that their comments could have been considered in the final version of the Environmental Management Plan.

Mr. Gia Sopadze, Deputy Head of Environmental and Social Issues Division was representative of the Roads Department of Georgia.

Mr. Gia Sopadze opened the meeting and informed attendees about the roads rehabilitation on the territory of municipality, he also discussed the meaning of Secondary Roads Asset Management Project for Georgian economic development.

Mr. Gia Sopadze informed attendees about the Environmental and Social Management Plans of rehabilitation works under Secondary Road Asset Management Project. He covered the scope of planned works, their possible impact on the natural environment and human health. Also was overviewed mitigation measures proposed to reduce negative environmental impacts of the project in the construction and operation phases.





Nº	Questions	Answers
1.	When will the rehabilitation works of the road start?	The rehabilitation works will start as soon as the tender will be announced and the winner will be contracted
2.	How the dust problem be reduced during the rehabilitation works?	The company who will be implementing the rehabilitation works will be obliged to water the site to prevent dust prevention
3.	Will the appropriated safety standards fulfilled?	The construction company will be obliged to follow the WB safety guidelines and Georgian Legislation

C. Sofes

Representatives of Roads Department of Georgia:

Gia Sopadze

(signed)









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