

**ROAD DEPARTMENT OF GEORGIAN MINISTRY OF REGIONAL
DEVELOPMENT AND INFRASTRUCTURE**



Environmental and Social Management Plan

**REHABILITATION OF SECONDARY ROAD SECTION
KHIDISTAVI-ATENI-BOSHURI (km12 to km22)**

Tbilisi, Georgia

2016

PART I: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL & ADMINISTRATIVE				
Country	Georgia			
Project title	Rehabilitation of Secondary khidistavi-Ateni-Boshuri Road Section km12- km22			
Scope of project and activity	<p>As a first step for the determination of any rehabilitation measures and a pavement design procedure of the Khidistavi-Ateni-Boshuri road section the existing pavement condition was assessed.</p> <p>The road has an asphalt surface which generally in a poor to very condition and is locally deteriorated to a gravel surface. Signs of executed minor repair works have been observed.</p> <p>The existing asphalt pavement has nearly reached the end of its design life, and has along several sections experience premature failure. The existing asphalt surface shows all type of cracks and other deficiencies as</p> <p>The width of the existing carriageway is 7 meters. The average width of the roadbed varies between 8 and 9 meters.</p> <p>The road pavement will be rehabilitated. Existing artificial structures, including drainage pipes, which will be cleaned, repaired or replaced. The road signs and safety fences will be replaced and additional signs will be installed.</p> <p>Junctions and yard entries will be repaired. Existing bus stops, shelters shall be newly arranged.</p>			
Institutional arrangements (Name and contacts)	WB (Project Team Leader) Natalya Stankevich	Project Management Giorgi Tsereteli	Local Counterpart and/or Recipient Gori municipality	
Implementation arrangements (Name and contacts)	WB Safeguard Supervision Darejan Kapanadze Environment David Jijelava Social	Local Counterpart Supervision Technical Supervisor LtD “Roads Rehabilitation and Modernization Supervision Direction” Merab Jishiashvili	Local Inspectorate Supervision -	Contractor LtD. AGT Management Meslehet, Tikinti Xidmelteri
SITE DESCRIPTION				
Name of site	khidistavi-Ateni-Boshuri km12- km22 road section. Gori municipality, Shida Kartli Region			
Describe site location	Road section is located within Gori Municipality of Shida Kartli Region, Eastern Georgia, on the right bank of river Mtkvari, at the northern slope of the Trialeti Range. The road section goes through settled rural areas and passes 4 villages (Khidistavi, Ateni, Bobnevi, and Biisi). The study road is a two-lane carriageway with a deteriorated asphalt surface.			
Who owns the land?	Gori municipality and the State Forest Fund territories (1462.8 m ² in total) under the National Forest Agency of the Ministry of Environment and Natural Resources Protection(LEPL).			
Description of geographic, physical, biological, geological, hydrographic and socio-economic context	<p>Location:The study road section is located within Gori Municipality of ShidaKartli Region,Eastern Georgia, on the right bank of river Mtkvari, at the northern slope of the Trialeti Range. The Road passes 4 villages (Khidistavi, Ateni, Bobnevi, and Biisi).</p> <p>Air- Air quality in the project area is good due to low traffic levels and the absence of industrial facilities.</p> <p>Water and Soil - No pollution is reported.</p> <p>Flora—On the above mentioned territory following tree species are met: Hornbeam (<i>Carpinus orientalis</i>) - 44 specimens, willow (<i>Salix magnifica</i>)-24 specimens, wild pear (<i>Pyroscommunis</i>) - 3 specimens and Georgian Oak (<i>Quercus iberica</i>) - 65 specimens. These trees were located on the territory of the State Forest Fund. No Red Listed species are present within the project impact area.</p> <p>Fauna - The project road pass through the degraded territory and accordingly the fauna is not reach. Mostly fauna is presented by the species which does not need any special protecting measures. Due to the small area of the project the impact on the fauna will be minimal.</p>			

Noise - The current noise level is low due to low traffic levels and a lack of industrial facilities. Construction activities will have modest impact on those people who reside in existing villages (Immediately along the road) and this impact will be limited to the rehabilitation phase.

Social – rehabilitation road section will pass 4 villages.

Information for material resources nearest from project area

#	Existing borrow areas /quarries at or near	License No.	Usable Quantity (m3)	Material
1	KvemoBoshuri	100799	2268	Granite
2	Kareli	00527	115000	Sand-Gravel
3	Kareli	100441	173100	Sand-Gravel
4	Bernisi	00550	142000	Sand-Gravel
5	Urbnisi	00518	200000	Sand-Gravel
6	Skra	100400	60000	Sand-Gravel
7	Skra	00459	50000	Sand-Gravel
8	Gori	100003	617100	Sand-Gravel
9	Gori	100318	59400	Sand-Gravel
10	Gori	00293	210000	Sand-Gravel
11	Tiniskhidi	01029	72300	Sand-Gravel
12	Tiniskhidi	714	100000	Sand-Gravel
13	Tiniskhidi	00542	25000	Sand-Gravel
14	Tiniskhidi	00407	200000	Sand-Gravel
15	Tiniskhidi	00293	210000	Sand-Gravel
16	Tedotsminda	01085	155700	Sand-Gravel
17	Akhaldaba	00504	50000	Sand-Gravel
18	Akhaldaba	00293	210000	Sand-Gravel
19	Akhaldaba	01163	250500	Sand-Gravel
20	Akhaldaba	100325	300000	Sand-Gravel
21	Akhaldaba	0000168	18600	Sand-Gravel
22	Akhaldaba	100387	79500	Sand-Gravel
23	Akhaldaba	00551	100000	Sand-Gravel
24	Akhaldaba	00970	150000	Sand-Gravel
25	Akhaldaba	01163	250500	Sand-Gravel
26	Akhaldaba	100395	330000	Sand-Gravel
27	Sveneti	100526	123200	Sand-Gravel
28	Sveneti	100146	520000	Sand-Gravel
29	Sveneti	100565	336000	Sand-Gravel
30	Gori	100277	186600	Sand-Gravel
31	Khidistavi	100430	55000	Sand-Gravel
32	Khidistavi	00649	800000	Sand-Gravel
33	Uplistsikhe	100179	66300	Sand-Gravel

Locations and distance for material sourcing, especially inert aggregates, water, stones

LEGISLATION

<p>Identify national & local legislation & permits that apply to project activity</p>	<p>The project triggers World Bank OP/BP 4.01 - Environmental Assessment and, according to its principles, has been classified as environmental Category B. The present ESMP has been prepared to meet requirements of OP/BP 4.01.</p> <p>Georgian legislation does not require any type of environmental review, approval, or permitting for the project. Though according to the national regulatory system,</p> <ul style="list-style-type: none"> (i) Contractor company must be licensed, (ii) Construction materials must be obtained from licensed providers, (iii) Once contractor wishes to open quarries, then the contractor must obtain respective license. (iv) If, in time of rehabilitation, contractor wishes to operate own asphalt or concrete (Or both) plants, he should have permission regarding specified limited level of pollutant substances in exhaust.
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	<p>(v) Disposal of the construction waste and excess ground generated in the course of earth works shall be placed in a selected locations agreed and approved by local governing bodies in written.</p> <p>(vi) Land plots along the road required for undertaking of planned works had been de-listed from the Territory of the State Forest Fund and transfer to the Road Department.</p>
PUBLIC CONSULTATION	
Identify when / where the public consultation process shall take place	Environmental and Social Management Framework for the Secondary Road Asset Management Project was disclosed through the RDMRDI web page and a stakeholder consultation meeting was held on 14/07/2015. The present site-specific ESMP was disclosed through the same media and also was delivered in hard copies to the Municipality of Gori. Consultation meeting with local communities was held and the minutes of this meeting was attached to this ESMP
ATTACHMENTS	
	<p>Attachment 1: Project Location Map</p> <p>Attachment 2: Minutes of public consultation;</p> <p>Attachment 3: Waste disposal agreement (<u>to be provided by contractor</u>);</p> <p>Attachment 4: Borrowing license (<u>as applicable by contractor</u>);</p> <p>Attachment 5: Asphalt plant operation agreement (<u>as applicable</u>);</p> <p>Attachment 6: Other (<u>as applicable</u>)</p>

PART II: SAFEGUARDS SCREENING AND TRIGGERS

ENVIRONMENTAL /SOCIAL SCREENING FOR SAFEGUARDS TRIGGERS			
	Activity/Issue	Status	Triggered Actions
Will the site activity include/involve any of the following?	A. Roads rehabilitation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If “Yes”, see Section III A
	B. New construction of small traffic infrastructure	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If “Yes”, see Section III A
	C. Impacts on surface drainage system	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If “Yes”, see Section III B
	D. Historic building(s) and districts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If “Yes”, see Section III C
	E. Acquisition of land ¹	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If “Yes”, see Section III D
	F. Hazardous or toxic materials ²	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If “Yes”, see Section V E
	G. Impacts on forests and/or protected areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If “Yes”, see Section III F
	H. Risk of unexploded ordinance (UXO)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If “Yes”, see Section III G
	I. Traffic and Pedestrian Safety	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	“Yes”, see Section III H
	J. Impacts on land property and use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If “Yes”, see Section H below
	K. Social risk	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If “Yes”, see Section I below

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	<ul style="list-style-type: none"> a) The local construction and environment inspectorates and communities have been notified of upcoming activities b) The public has been notified of the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works) c) All legally required permits have been acquired for construction and/or rehabilitation d) The Contractor formally agrees that all work will be carried out in a safe and disciplined manner designed to minimize impacts on neighboring residents and environment. e) Workers' PPE will comply with international good practice (always hardhats, as needed masks and safety glasses, harnesses and safety boots) f) Appropriate signposting of the sites will inform workers of key rules and regulations to follow.
A. General Rehabilitation and /or Construction Activities	Air Quality	<ul style="list-style-type: none"> a) During excavation works dust control measures shall be employed, e.g. by spraying and moistening the ground b) Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust c) During pneumatic drilling or breaking of pavement and foundations dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site d) The surrounding environment (sidewalks, roads) shall be kept free of soil and debris to minimize dust e) There will be no open burning of construction / waste material at the site f) All machinery will fit emission originating regulations, well maintained and serviced and there will be no excessive idling of construction vehicles at sites
	Noise	<ul style="list-style-type: none"> a) Construction noise will be limited to restricted times agreed to in the permit b) During operations the engine covers of generators, air compressors and other powered mechanical equipment shall be closed, and equipment placed as far away from residential areas as possible
	Water Quality	<ul style="list-style-type: none"> a) The site will 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 causing excessive turbidity in canalization and nearby streams and rivers
	Waste management	<ul style="list-style-type: none"> a) Waste collection and disposal pathways and sites will be identified for all major waste types expected from excavation, demolition and construction activities. b) Mineral construction and demolition wastes will be separated from general refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate containers. c) Construction waste will be collected and disposed by licensed company d) In order to control waste disposal accuracy and compliance, waste disposal reports shall be done e) Whenever feasible Contractor will reuse and recycle appropriate and viable materials (except when containing asbestos)
B. Impacts on surface drainage system	Water Quality	<ul style="list-style-type: none"> a) There will be no unregulated extraction of groundwater, nor uncontrolled discharge of process waters, cement slurries, or any other contaminated waters into the ground or adjacent streams or rivers; contractor should obtain all necessary licenses and permits for water extraction and for further pouring out of used water in state current water system b) There will be proper storm water drainage systems installed and care taken not to silt, pollute, block or otherwise negatively impact natural streams, rivers, ponds and lakes by construction activities. c) There will be procedures for prevention of and response to accidental spills of fuels, lubricants and other toxic or noxious substances. d) Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies.
C. Historic building (s)	Cultural Heritage	<ul style="list-style-type: none"> a) If construction works takes place to a designated historic structures or are located in a designated historic district, notification shall be made and

		<p>approval/permits be obtained from local authorities and all construction activities planned and carried out in line with local and national regulation</p> <p>b) It shall be ensured, that provisions are put in place so that artifacts or other possible "chance finds" encountered in excavation or construction are noted and registered, responsible officials contacted and work activities delayed or account for such finds</p>
D. Acquisition of land	Land Acquisition Plan/Framework	<p>a) No land acquisition is expected to be required for this project. In any case, in order to avoid any conflicts with the community, the Contractor will not enter into any plot without prior authorization from the Employer who should ensure that the property owner, and/or users, are informed in advance of any needs to enter their plots and the purpose and duration of such visit. If any damages occur as a result of such visit (e.g. damage to fences, access roads, etc.), the Contractor will be responsible for restoring the damaged asset or compensate as adequate in agreement with the affected party, and provide documented evidence of this to the Employer."</p> <p>b) In case the Contractor, its employees and/or subcontractors and corresponding employees receive any communications or complaints from the communities in the area of works and the public in general, it should keep a log of such communications and intermediately inform the Employer who will document and manage the complaint as per its Grievance Redress Mechanism."</p>
E. Toxic materials	Asbestos management	<p>a) If asbestos is located on the project site, it shall be marked clearly as hazardous material</p> <p>b) When possible of asbestos will be appropriately contained and sealed to minimize exposure</p> <p>c) Asbestos prior to removal (If necessary) will be treated with a wetting agent to minimize asbestos dust</p> <p>d) Asbestos will be handed and disposed by skilled & experienced professionals</p> <p>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.</p> <p>f) Removal of asbestos will not be reused</p>
	Toxic / hazardous waste management	<p>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</p> <p>b) Containers of hazardous substances shall be placed in an leak-proof container to prevent spillage</p> <p>c) Waste shall be transported by specially licensed carriers and disposed in licensed facility</p> <p>d) Paints with toxic ingredients or solvents or lead-based paints will not be used</p>
F. Affected forests, wetlands and/or protected areas	Ecosystem protection	<p>a) Works within the territory of the State Forest Fund are disallowed prior to completion of de-listing and user right transfer to this territory from the National Forest Agency to the RD</p> <p>b) Tree cutting must be held down to minimum by adjusting alignment of access roads, using small machinery or manual labor in individual locations, etc.</p> <p>c) All trees that have to be extracted must be marked and their removal must be entered into tree-cutting ledger on daily basis</p>
G. Risk of unexploded ordinance (UXO)	Hazard to human health and safety	<p>a) Before to start any excavation activities, Contractor shall verify that the construction area has been checked and cleared regarding UXO by appropriate authorities</p>
H. Traffic and pedestrian safety	Direct or indirect hazards to public traffic and pedestrians by construction activities	<p>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:</p> <ul style="list-style-type: none"> • Use signposting, warning signs, barriers and traffic diversions so that the work site is clearly visible and the public warned of all potential hazards • 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. • Adjust working hours to local traffic patterns, e.g. avoid major transport activities during rush hours or times of livestock movement

		<ul style="list-style-type: none"> • If required, undertake active traffic management by trained and visible staff at the site for safe passage for the public • If school children are in the vicinity, include traffic safety personnel to direct traffic during school hours • Ensure safe and continuous access to all adjacent office facilities, shops and residences during construction
I. Social Risk Management	Public relationship management	<ul style="list-style-type: none"> • Assign local liaison person within Contractor's team to be in charge of communication with and receiving requests/ complaints from local population • Consult local communities to identify and proactively manage potential conflicts between an external workforce and local people • Raise local community awareness about sexually transmitted disease risks associated with the presence of an external workforce and include local communities in awareness activities. • Inform the population about construction and work schedules, interruption of services, traffic detour routes and provisional bus routes, blasting and demolition, as appropriate. • Limit construction activities at night. When necessary ensure that night work is carefully scheduled and the community is properly informed so they can take necessary measures. • At least five days in advance of any service interruption (including water, electricity, telephone, bus routes), advice community through postings at the work site, at bus stops, and in affected homes/businesses. • Address concerns raised through Grievance Redress Mechanism established by the Employer within the designated timeline within the scope of Contractor's liability • To the extent possible, work camps should not be located in close proximity to local communities • Siting and operation of worker camps should be undertaken in consultation with neighboring communities
	Labor management	<ul style="list-style-type: none"> • The Contractor will recruit unskilled or semi-skilled workers from local communities to the extent possible. Where and when feasible, worker skills training, should be provided to enhance participation of local people. • The Contractor will 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. A temporary septic tank system should be established for any residential labor camp and without causing pollution of nearby watercourses • The Contractor will raise awareness of workers on overall relationship management with local population, establish the code of conduct in line with international practice and strictly enforce them, including the dismissal of workers and financial penalties of adequate scale

PART IV: MONITORING PLAN

Construction 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?)
Supply of construction materials	Purchase of the construction materials from licensed providers	Offices and warehouses of material suppliers, and borrowing sites	Checking documents; Inspection of material quality	In the process of signing the agreements for material provision	Ensure technical quality of construction; Protect human health and environment	Roads Department (RD)
Works in the forested territory	<p>No physical activity takes place in the territory of the State Forest Fund until de-listing and user right transfer procedures are complete</p> <p>Movement of construction vehicles and machinery, storage, or other activities do not damage and cause cutting of trees unless tree extraction is required for arranging road surface and shoulders</p> <p>Trees that must be extracted are labeled prior to removal and each extracted tree is entered into the tree cutting ledger (species and diameter identified)</p>	<p>Work site within forested territory</p> <p>Construction contractor's office</p>	<p>Checking documents</p> <p>Visual observation</p>	Prior and in the course of works within the forested territory	<p>Ensure compliance with the national legislation;</p> <p>Minimize impact on forested area;</p> <p>Facilitate procedure of hand over of logs generated through tree cutting</p>	RD

<p>Transportation of construction materials and waste</p> <p>Movement of construction equipment</p>	<p>Technical condition of construction vehicles and machinery;</p> <p>Adequacy of the loading trucks for transported types of cargo, and canopy coverage of cargo transported in open trucks;</p> <p>Movement of construction vehicles and machinery along pre-defined routes.</p>	<p>Routes for transportation of construction materials and construction wastes</p>	<p>Inspection of roads adjacent to the construction site and included in the agreed-upon routes of transportation</p>	<p>Unannounced checks during the working hours</p>	<p>Avoid air and road pollution with dust and solid matter;</p> <p>Reduce traffic disruption</p>	<p>RD;</p> <p>Traffic Police</p>
<p>Operation of Construction machinery on site</p>	<p>Proper technical condition of construction machinery:</p> <ul style="list-style-type: none"> • no excessive exhaust, • no fuel leakage, • respect of working hours • no damage to trees and other vegetation what does not need to be created for the purposes for road construction 	<p>Construction site</p>	<p>Inspection</p>	<p>Within and off working hours</p>	<p>Reduce air and soil pollution caused by equipment operation;</p> <p>Reduce noise and dust nuisance to local population</p>	<p>RD</p>
<p>Contamination of surface water during rehabilitation of the bridge</p>	<p>Suspended solids, organic compounds, lubricants, fuel, solvents, heavy metals, pH value, mineral oils</p>	<p>Rehabilitation of the bridge</p>	<p>Inspection</p>	<p>During rehabilitation works near in the water</p> <p>Unannounced inspections during works near water courses</p>	<p>Reduce water pollution caused by equipment operation;</p>	<p>RD</p>
<p>Servicing of construction machinery</p>	<p>Washing vehicles and machinery off-site or in the location sufficiently distant from water bodies;</p> <p>Servicing vehicles and machinery with oils and lubricants off-site or in an especially arranged location on-site;</p> <p>technical adequacy of the servicing location:</p> <ul style="list-style-type: none"> • solid, insulating floor or adsorbent layer (sand, gravel, membrane), 	<p>Construction site and construction base (if applicable)</p>	<p>Inspection</p>	<p>Entire period of machinery operation</p>	<p>Avoid land and water pollution with oil products due to servicing of vehicles and machinery;</p> <p>Be ready for fire emergency action to promptly localize fire source and minimize material damage</p>	<p>RD</p>

	<ul style="list-style-type: none"> • 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. 					
Extraction of inert material	<p>Purchase of inert material from the existing providers if possible;</p> <p>Obtaining license for extraction of material by the Contractor and strict adherence to the terms of such license;</p> <p>Terrace processing of the borrow pits, backfilling of excess material, and harmonization with landscape;</p> <p>River bed gravel extraction away from water flow, arrangement of gravel barriers for isolating extraction area from water flow, prevention of water flow entry by vehicles and machinery;</p> <p>Demarcation of borrow areas with warning signs</p>	Borrow areas	<p>Checking documents</p> <p>Inspection of activities</p>	The period of material extraction	<p>Reduce slope erosion and damage to the ecosystem and landscape;</p> <p>Reduce river bank erosion, water pollution with suspended particles, and impact on the aquatic life;</p> <p>Protection of animals and people from accidents</p>	<p>RD</p> <p>National Environment Agency of the Ministry of Environment and Natural Resources Protection</p>
Generation of construction waste	<p>Temporary storage of inert and hazardous wastes separately at the designated locations;</p> <p>Timely disposal of waste to the formally designated landfills;</p> <p>Hand-over of hazardous wastes to licensed deactivating and processing companies.</p>	<p>Construction site and base (if applicable);</p> <p>Locations designated for waste disposal</p>	<p>Checking documents;</p> <p>Visual observation</p>	Entire period of construction	Avoid pollution of the environment	<p>RD;</p> <p>GoriMunicipality</p>

Accumulation of household waste	Provision of waste containers on-site; Agreement with local municipality for regular out-transporting of waste	Construction site and base (if applicable)	Visual inspection	Entire period of construction	Avoid pollution of soil and water with household waste	RD; GoriMunicipality
Generation of liquid waste	Arrangement and operation of toilets compliant with sanitary norms on-site; Arrangement of drainage system for storm water collection and periodic cleaning of the system from silt; Arrangement of sedimentation pool for waste water collection on-site	Construction site and base (if applicable)	Visual inspection	Entire period of construction Increased frequency of inspection in periods of high precipitation	Avoid flooding of construction site and base; Reduce pollution of surface and ground water	RD
Operation of asphalt-concrete plant	Obtaining permit for impacting environment by Contractor and strict adherence to its terms; Placement of plant in the location permissive for minimal disturbance of local population; Arranging sedimentation pool for capturing of liquid discharges from plant	Construction site and base (if applicable)	Checking documents Inspection	Before establishment of plant and during entire period of its operation	Reduce inconvenience for local population due to plant operation; Reduce air and surface water pollution from emissions and discharges from plant	RD; National Environment Agency of the Ministry of Environment and Natural Resources Protection
Safety of labor	Provision of uniforms and personal protective gear to workers and enforcement of their use; Consistency with the rules of exploitation of the construction equipment and machinery	Construction site	Inspection of the activities	the whole construction period	reduce the probability of accidents	RD

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?)
Cleaning road surface and shoulders from waste	Trash deposited from moving vehicles timely collected and removed; Bodies of animals overrun by vehicles timely collected and removed	Carriageway and shoulders of the road section	Inspection	Quarterly	Prevent road littering; Road safety	Gorimunicipality
Keeping road drainage system operational	Periodic cleaning of drainageditches from silt and trash	Drainage system long the road section	Inspection	Quarterly	Maintaining drainage system capacity for preventing road flooding and water damage	Gorimunicipality
Confinement of accidental spills and clean-up	Timely confinement, deactivation, and removal of liquid or powder spills of cargo in case of road accidents	On the road and its immediate surroundings	Inspection	Upon occurence of accidents, as required	Prevent pollution of soil and water	Traffic Police; Gorimunicipality
Disposal of waste from regular road maintenance works	Collection and timely disposal of waste from maintenance works to the designated landfill	On the road and its immediate surroundings	Inspection	Towards completion of scheduled maintenance works	Prevent enviorment pollution	Gorimunicipality

Attachment 1: Project Location Map



Attachment 2:

MINUTES

Of public consultation meeting on Environmental Management plan for
Rehabilitation of Khidistavi-Ateni-Boshuri km12 – km 22 road section

17.11.2016

Ateni Municipality

Chairman of meeting - Gia Sopadze, Head of Environment Protection Unit, Resettlement and Environment Protection Division

Secretary of meeting - Maya Vashakidze, Environmental Consultant Roads Department of Georgia

Speakers: Gia Sopadze, Maya Vashakidze

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, Head of Environment Protection Unit, Resettlement and Environment Protection Division and Ms. Maya Vashakidze, Environmental Consultant were representatives of the Roads Department of Georgia.

Mr. Gia Sopadze and Ms. Maya Vashakidze informed attendees about the Environmental Management Plan of rehabilitation works under Secondary Road Asset Management Project.

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


Ms. Maya Vashakidze made a presentation of Environmental Management Plan. She 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 local population have asphalt entrance?	The asphalt entrance will be arranged only for the population who live along the rehabilitation road section

Representatives of Roads Department of Georgia:

Gia Sopadze



(signed)



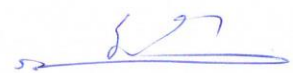




Maya Vashakidze



(signed)







შიდასახელმწიფოებრივი მნიშვნელობის ხიდისთავი-ატენი-ბოშურის საავტომობილო გზის კმ12 - კმ22 მონაკვეთის

საჯარო განხილვა

№	სახელი, გვარი	საკონტაქტო ინფორმაცია (ტელეფონი, ელ. ფოსტა, მისამართი)	ხელმოწერა
	ტომიჯი უნიშვილი	599-55-11-48	
	ნანი სიხვაძე	59819 4206	
	ახაჯი ბეჭუაძიანი	577 90 5768	
	სვიხა სეგია	595 03 1718	
	თინა ჯაფარიძე	599 52 38 14	
	ქაია უნიშვილი	598-22-70-00	
	ქრისტე უნიშვილი	599-32-87-50	



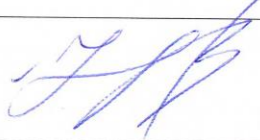
შიდასახელმწიფოებრივი მნიშვნელობის ხიდისთავი-ატენი-ბოშურის საავტომობილო გზის კმ12 – კმ22 მონაკვეთის

საჯარო განხილვა

№	სახელი, გვარი	საკონტაქტო ინფორმაცია (ტელეფონი, ელ. ფოსტა, მისამართი)	ხელმოწერა
	ქსია თინოჯაშვილი	595 005 910	
	შ.ჩხაძე ყვირძვია	551 626208	
	თევზანი-სიბუღიძველი	551-58-04-45	
	ქავთაძე გიორგი	599-12-14-85	
	სოსელიძე მერიშვილი	577-920-859	
	ჭუშტყეხი გიორგი	599 513-719	
	მანანაშვილი ქეთევანი	551662329	მანანა

შიდასახელმწიფოებრივი მნიშვნელობის ხიდისთავი-ატენი-ბოშურის საავტომობილო გზის კმ12 – კმ22 მონაკვეთის

საჯარო განხილვა

№	სახელი, გვარი	საკონტაქტო ინფორმაცია (ტელეფონი, ელ. ფოსტა, მისამართი)	ხელმოწერა
	ზაიდა წანავა	544-53-40-01	
	ზვიად ანგუაძე	ზღვის ქ 551-40-45-18	
	ახლია ჭიჭუნაძე	551-77-22-84	
	ნიკოლოზ ყაიუაძე	595-33-99-15	