

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



Environmental and Social Management Plan

REHABILITATION OF SECONDARY

(S-89) Tsalenjikha-Obuji-Jikhashkari

Road Section KM7–KM14.2 L=8.2 km

Tbilisi, Georgia

2019

PART I: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL & ADMINISTRATIVE																																											
Country	Georgia																																										
Project title	Rehabilitation of secondary road S-89, Tsalendjikha-Obuji-Jikhashkari, km 7-km 14.2																																										
Scope of project and activity	<p>Existing pavement on design section is of gravel, thickness varies between 15-20 cm, frequently, and holes are visible. Average width of gravel pavement is ≈6 m.</p> <p>Road corridor allows to arrange 2-line traffic, considering standard shoulders, although, at some sections, its widening will become necessary. Width of the corridor varies within the range of 6,5-8,5 m.</p> <p>Arrangements for storm water drainage are required in the road section suggested for rehabilitation. This section includes 13 culverts of differing diameter and cross-section; 3 of them will be repaired and the rest are to be replaced.</p> <p>There are 3 bridges of various size and structure. Two bridges, on rivers Torchia and Papaskiri, will be repaired during the rehabilitation works.</p> <p>The proposed road section lacks relevant attributes of road equipment. There are no traffic signs and barriers. All safety and road signs will be replaced, or new ones will be installed. Illumination poles are present in individual locations along the road section.</p> <p>Location is selected for the placement of the new bus stop according to the request of local population. It was decided to construct asphalt concrete pavement, bus shelter and organize adjacent territory of the bus stop.</p> <p>There are number of residential buildings and private/privately used land plots along the road section proposed for rehabilitation. The pavement will be installed to insure entrances to existing gates. The culverts (Diam. ≈0.5 m) will be arranged at the proposed road section in order to pass through drainage water. The similar works will be done with road junctions and if necessary culverts will be arranged (Diam.≈0.5 m)</p> <p>The proposed road section passes through the tightly settled villages and there is very narrow roadbed. Side-walks will be arranged only on those sections where the existing roadbed allows, in order to avoid unjustified involuntary resettlement.</p> <p>Design Decision Table</p> <table><tr><th>No.</th><th>Classification</th><th>Design Results</th></tr><tr><td>1</td><td>Rehabilitation Length</td><td>7.00 km</td></tr><tr><td>2</td><td>Design Speed</td><td>40.0 km/h</td></tr><tr><td>3</td><td>Carriageway Width</td><td>6.0 m</td></tr><tr><td>4</td><td>Shoulder Width</td><td>1.0m</td></tr><tr><td>5</td><td>Cross section</td><td>2.5%</td></tr><tr><td>6</td><td>Pavement Thickness</td><td>Asphalt surface 4.0 cm Asphalt base course -6 cm</td></tr><tr><td>7</td><td>Bridges</td><td>3 units</td></tr><tr><td>8</td><td>Culverts</td><td>13 units</td></tr><tr><td>9</td><td>Bus Stop</td><td>7 units</td></tr><tr><td>10</td><td>Junctions</td><td>24 units</td></tr><tr><td>11</td><td>Yard Entrance</td><td>142 units</td></tr><tr><td>12</td><td>Construction Duration</td><td>8 months</td></tr></table>				No.	Classification	Design Results	1	Rehabilitation Length	7.00 km	2	Design Speed	40.0 km/h	3	Carriageway Width	6.0 m	4	Shoulder Width	1.0m	5	Cross section	2.5%	6	Pavement Thickness	Asphalt surface 4.0 cm Asphalt base course -6 cm	7	Bridges	3 units	8	Culverts	13 units	9	Bus Stop	7 units	10	Junctions	24 units	11	Yard Entrance	142 units	12	Construction Duration	8 months
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Supervision arrangements (Name and position)	WB (Project Team Leader) Natalya Stankevich	Project Management Giorgi Tsereteli	Local Counterpart and/or Recipient Tsalenjikha Municipality Zugdidi Municipality																																								
Implementation arrangements (Name and contacts)	WB Safeguard Supervision Darejan Kapanadze Environment David Jijelava, Social	Local Counterpart Supervision Not selected	Local Inspectorate Supervision -	Contractor Not selected																																							

SITE DESCRIPTION																						
Name of site	S-89, Tsalendjikha-Obuji-Jikhashkari, Section km 7-km 14.2																					
Describe site location	Proposed road section lays on flat and small hilly territories. There are no geo-dynamic events and processes, according to the visual observation. The study region is characterized by frequent river network. The Enguri is the main river with its most important tributaries Chkhina, Vitsi, Olori (right), Khuberi and Magana (left). The river Chanistskali is located in the southern part of the study region. The tributaries of the river are Intsra, Skurdile and others. The rivers Jumi and Ochkhomuri are also located in the study region. The study road section is crossed by the river Torchia.																					
Who owns the land?	(i) The existing ROW is owned by Tsalenjikha Municipality and Zugdidi Municipality; (ii) State Forest Fund under the LEPL National Forest Agency of the Ministry of Environment Protection and Agriculture of Georgia (288 m²). The territory had been de-listed from the State Forest Fund; (iii) The investment will not conduct any widening or realignment that may cause impact on private lands or assets																					
Description of geographic, physical, biological, geological, hydrographic and socio-economic context	<p>Location: The project road is located in Samegrelo and Zemo Svaneti Region, in Tsalenjikha and Zugdidi Municipality, Georgia.</p> <p>Air- Air quality in the subproject 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 were registered.</p> <table><thead><tr><th colspan="2">Species</th><th rowspan="2">Number of Trees</th></tr><tr><th>English Name</th><th>Latin</th></tr></thead><tbody><tr><td>Acacia</td><td>Acacia dealbata</td><td>33</td></tr><tr><td>White Mulberry</td><td>Morus alba</td><td>3</td></tr><tr><td>Caspian locust</td><td>gleditschia caspica</td><td>1</td></tr><tr><td>Fig</td><td>Ficus carica</td><td>1</td></tr><tr><td>Elm</td><td>Ulmus foliacea</td><td>1</td></tr></tbody></table> <p>These species were located on the territory managed by the LEPL National Forest Agency of the Ministry of Environment Protection and Agriculture of Georgia. The Red Listed species do not occur.</p> <p>Fauna - The road section passes 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> <p>Noise - The current noise level is low due to low traffic levels and a lack of industrial facilities.</p> <p>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.</p> <p>Social/ Involuntary Resettlement - Tsalendjikha-Obuji-Jikhashkari (km 7-km 14.2) road section is located in Samegrelo and Zemo Svaneti administrative regions, Tsalenjikha and Zugdidi Municipalities. Its rehabilitation will affect 17 households (76 people), which are losing parts of their land plots. Affected people will be compensated for losing parts of the land plots and structures (fences) at the replacement cost. Resettlement Action Plan is prepared and will be implemented prior to commencement of works.</p>		Species		Number of Trees	English Name	Latin	Acacia	Acacia dealbata	33	White Mulberry	Morus alba	3	Caspian locust	gleditschia caspica	1	Fig	Ficus carica	1	Elm	Ulmus foliacea	1
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Locations and distance for material sourcing, especially inert aggregates, water, stones	Contractor may choose to operate quarry located in 16 km distance from village Sachino, Tsalendjikha municipality																					
LEGISLATION																						
Identify national & local legislation &permits that apply to project activity	<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> <p>(i) Contractor company must be licensed,</p> <p>(ii) Construction materials must be obtained from licensed providers,</p> <p>(iii) Once contractor wishes to open quarries, then the contractor must obtain respective license.</p> <p>(iv) If, in time of rehabilitation, contractor wishes to operate own asphalt or concrete (Or both) plants, he</p>																					

	<p>should have permission regarding specified limited level of pollutant substances in exhaust.</p> <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 were subject to de-listing from the Territory of the State Forest Fund and transfer to the Road Department. The process is finished.</p>
GRIEVANCE REDRESS MECHANISM	
	<p>A grievance redress mechanism will be available to allow affected persons (APs) appealing any decision on which they disagree. Population in the project impact zone will be informed about the available Grievance Redress Mechanism (GRM). This could be achieved through distributing brochures and relevant information provided and announced.</p> <p>APs will be fully informed of their rights and of the procedures for addressing complaints whether 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.</p> <p>Tsalendjikha Municipality have assigned a responsible person: Jemal Kvaratskhelia T: 599 857140 tsalendjikhasakrebulo@gmail.com</p> <p>Zugdidi Municipality have assigned a responsible person: David Khubua T: 571774707 zugdidismeria@gmail.com</p> <p>The Contact Person collects and records the grievances in special log.</p> <p>If the grievance will not be unsolved at the local level, it will be lodged to the RDMRDI.</p> <p>Grievance Redress Commission (GRCN) 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).</p> <p>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.</p>
PUBLIC CONSULTATION	
Identify when / where the public consultation process shall take place	<p>Environmental Management Framework for the Secondary and Local Roads Project III was disclosed through the RDMRDI web page and a stakeholder consultation meeting was held on 11/04/2014. http://www.georoad.ge/uploads/files/SLRP_III_ESMF_April%203_WBcomments47.pdf</p> <p>Draft ESMP was posted on the RDMRDI website on January 31, 2019</p>
ATTACHMENTS	
	<p>Attachment 1: Site map;</p> <p>Attachment 2: public consultation</p>

PART II: SAFEGUARDS SCREENING AND TRIGGERS

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

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

		<p>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.</p> <p>c) There will be procedures for prevention of and response to accidental spills of fuels, lubricants and other toxic or noxious substances.</p> <p>d) Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies.</p>
C. Historic building (s)	Cultural Heritage	<p>a) If construction works takes place to a designated historic structures or are located in a designated historic district, notification shall be made and 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) Contractor will not enter the work site without prior authorization from the Employer on the completion of involuntary settlement according to the Resettlement Action Plan.</p> <p>b) If any additional land take or temporary land use becomes required for the purposes of rehabilitation works, Contractor shall take action on hold without affecting private property in any manner, inform Employer on the emerged new needs, and do not resume works until formal notice from the Employer</p> <p>c) If accidental damage to private property occur during rehabilitation works (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>d) In case the Contractor, its employees and/or subcontractors receive any communications or complaints from the communities in the area of works and the public in general, they should be entered into the log of communications and the Employer should be informed for addressing issues through the 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,</p>

		<p>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	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	<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 • 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?)
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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	No physical activity takes place in the territory of the State Forest Fund until de-listing and user right transfer procedures are complete 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 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)	Work site within forested territory Construction contractor's office	Checking documents Visual observation	Prior and in the course of works within the forested territory	Ensure compliance with the national legislation; Minimize impact on forested area; Facilitate procedure of hand over of logs generated through tree cutting	RD LEPL National Forest Agency of the Ministry of Environment Protection and Agriculture
Transportation of construction materials and waste Movement of construction equipment	Technical condition of construction vehicles and machinery; Adequacy of the loading trucks for transported types of cargo, and canopy coverage of cargo transported in open trucks; Movement of construction vehicles and machinery along pre-defined routes.	Routes for transportation of construction materials and construction wastes	Inspection of roads adjacent to the construction site and included in the agreed-upon routes of transportation	Unannounced checks during the working hours	Avoid air and road pollution with dust and solid matter; Reduce traffic disruption	RD; Traffic Police
Operation of Construction machinery on site	Proper technical condition of construction machinery: <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 	Construction site	Inspection	Within and off working hours	Reduce air and soil pollution caused by equipment operation; Reduce noise and dust nuisance to local population	RD
Contamination of surface water during	Suspended solids, organic compounds, lubricants, fuel, solvents,	Rehabilitation of the bridge	Inspection	During rehabilitation works near in the	Reduce water pollution caused by equipment	RD

rehabilitation of the bridge	heavy metals, pH value,mineral oils			water . Unannounced inspections during works nearwatercourses	operation;	
Servicing of construction machinery	<p>Washing vehicles and machinery off-site of 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; technical adequacy of the servicing location:</p> <ul style="list-style-type: none"> • solid, insulating floor or adsorbent layer (sand, gravel, membrane), • containment barriers allowing enough sapce for holding fuel over the maximum amount expected on the location at a time, • emergency fire-fighting kit, • sedimentation pool at car wash area. 	Construction site and construction base (if applicable)	Inspection	Entire period of machinery operation	<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>	RD
Extraction of natural construction material	<p>Purchase of natural construction 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>LEPL National Agency of Mines of the Ministry of Economy and Sustainable Development of Georgia</p>

Generation of construction waste	Temporary storage of inert and hazardous wastes separately at the designated locations; Timely disposal of waste to the formally designated landfills; Hand-over of hazardous wastes to licensed deactivating and processing companies.	Construction site and base (if applicable); Locations designated for waste disposal	Checking documents; Visual observation	Entire period of construction	Avoid pollution of the environment	RD; Tsalenjikha Municipality Zugdidi Municipality
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; Tsalenjikha Municipality Zugdidi Municipality
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; LEPL National Environment Agency of the Ministry of Environment Protection and Agriculture
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
Works near privately-owned	Precaution measures to avoid trespassing or incidentally damaging of private	Works near privately-owned land, buildings	Monitoring and inspection	Entire period of construction	Reduce the probability of damages on private and any	RD

land, buildings and other assets	property (using small-size machinery or manual labor near walls and fences; stockpiling of construction material and waste away from private property; etc.)	and other assets			kind of property	
Involuntary resettlement	If the project implementation requires any form of involuntary resettlement, prepare, clear with the World Bank and implemented Resettlement Action Plan	Within the RoW	Permanent monitoring of impacts on the privately-owned land or other assets	Entire period of construction	To avoid any impact on private lands or assets	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	Tsalenjikha Municipality Zugdidi Municipality
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	Tsalenjikha Municipality Zugdidi Municipality
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 occurrence of accidents, as required	Prevent pollution of soil and water	Traffic Police; Tsalenjikha Municipality Zugdidi Municipality
Disposal of waste from regular road	Collection and timely disposal of waste from maintenance	On the road and its immediate	Inspection	Towards completion of scheduled maintenance	Prevent environment pollution	Tsalenjikha Municipality

maintenance works	works to the designated landfill	surroundings		works		Zugdidi Municipality
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Attachment 1: Project Location Map

Attachment 2:

MINUTES

Of public consultation meeting on
Environmental and Social Management plan for
Rehabilitation of Secondary (S-94) Tsalendjikha-Obuji-Jikhashkari, km 7-km 14.2

25.07.2018

Jvari Municipality

Chairman of meeting – Gia Sopadze, Head of the Environmental Division of the Roads
Department of Georgia

Speakers: Gia Sopadze

Attendees of the Meeting: See below

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 and Social Management Plan.

Mr. Gia Sopadze, Head of the Environment Protection Division was representative of the Roads Department of Georgia.

Mr. Gia Sopadze opened the meeting and informed attendees about meaning of Secondary and Local Roads Project for Georgian economic development, also presented the Environmental and Social Management Plan of Rehabilitation works under Secondary and Local Roads Project. He covered the scope of planned works, their possible impact on the natural environment and human health. Also, it was overviewed proposed mitigation measures 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.	Does the noise disturb the local population during the rehabilitation works?	<p>The Roads Department will implement mitigation measures to prevent the noise and vibration disturbance during the rehabilitation works;</p> <p>In addition, it is required to follow the restrictions of the working activities during the non-working hours. The contractor will work during the daytime (from 07:00 am to 07:00 pm), which will be monitored by the supervisor and the Roads Department.</p>
3.	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

Representatives of Roads Department of Georgia:

Gia Sopadze

(signed)

სარეაბილიტაციო სამუშაოების ბუხებრივ და სოციალურ გარემოს მართვის გეგმის საჯარო განხილვა

№	სახელი და გვარი	საკონტაქტო ინფორმაცია	ხელმოწერა
	სალომე შაბაია	568 93 68 11	ქ. მ.
	ახილეთი ბიძინა		ბ. მ.
	ფიფია მერაბი	597-84-48 46.	მ. ფიფია
	აბაშა ზურა	568 93 08 08	ა. ზ.
	ვახე ღებია	555 23 20 22	ბ. მ.
	ახილეთი ივანე	555-64-98-23	ი. ა.
	ამიანა ქუხილიძე	568-96-40-29	ქ. მ.
	ხუციშვილი გიორგი	597-85-72-01	გ.
	ვახე ღებია		ვახე
	ხუციშვილი ლევან	555 14 29 56	ლ. ხუციშვილი

სარეაბილიტაციო სამუშაოების ბუნებრივ და სოციალურ გარემოს მართვის გეგმის საჯარო განხილვა

№	სახელი და გვარი	საკონტაქტო ინფორმაცია	ხელმოწერა
1/	ბაღა სლო-	599-85-71-18	ბ. სლო
	ჭიჭი / ღიღი		ღ. ჭიჭი
	გახია გუჩია		გ. გუჩია
	ჭიჭი ვაზა		ჭ. ვაზა
	სახლი და სკოლა		ს. სახლი
	საღამო ვეზი		ს. ვეზი
	სახლი ნონა		ს. ნონა
	ვაზა ვაზა		ვ. ვაზა
	ქიქი მხიქი		ქ. მხიქი
	ნონა ვაზა		ნ. ვაზა

სარეაბილიტაციო სამუშაოების ბუნებრივ და სოციალურ გარემოს მართვის გეგმის საჯარო განხილვა

№	სახელი და გვარი	საკონტაქტო ინფორმაცია	ხელმოწერა
	თაბო სერო	594 95-96-69	თ. სერო
	გიორგი შადაია	577-389-365	გ. შადაია
	ვახა ფიფია	592-59-04-92	ვ. ფიფია
	ქეთევან შადაია	595 50-83-62	ქ. შადაია
	ოთარ ფიფია	557-61-54-83	ო. ფიფია
	ნოდარ ფიფია		ნ. ფიფია
	ვიკტორია ვიფია	555-36-68-16	გ. ვიფია
	გიორგი ტყეშელაშვილი	599-87-66-88	გ. ტყეშელაშვილი
	მამუკა ჯორიძე	514 550-550	მ. ჯორიძე