

SFG3121 V13



**Rehabilitation of Road**  
**Connecting village Second Sviri and “Sviri Station”**  
**(Zestaponi Municipality)**

**Sub-Project Environmental and Social Screening and**  
**Environmental Management Plan**

**WORLD BANK FINANCED**

**SECOND REGIONAL AND MUNICIPAL INFRASTRUCTURE DEVELOPMENT PROJECT**

## Environmental Screening

Under this sub-project (SP), a 7 km long road section will get rehabilitated which connects villages Meore Sviri and Akhali Sviri (settlement Sviri Station) in Zestaponi Municipality. The road starts from Zestaponi-Baghdati motor road turn up to the village Meore Sviri. The road to be rehabilitated passes through populated as well as unpopulated areas. The existing motor road has gravel pavement, which is much damaged. Neither vertical and horizontal curves nor grades meet engineering-technical requirements for motor roads. The drainage system is broken down, and water is flowing on the road pavement. The pavement is considerably eroded. Majority of the existing culverts is damaged and unserviceable and requires replacement or arrangement of the new ones in certain places. The road width is 8.5 meters. The SP envisages the expansion of only pavement of the road in the few sections up to 6 meters.

The SP envisages the following works:

- Arrangement of the road bed (grading earth with addition of sand-gravel);
- Cleaning-arrangement of the existing earth ditches (cleaning - 3440 meters, arrangement – 4411m);
- Arrangement of the road pavement (arrangement of base with loose rock and road metal, arrangement of cement/concrete pavement, arrangement of fill flanks by using gravel);
- Arrangement of 6 portal walls and a metal culvert;
- Arrangement of junctions and driveways;
- Placement of road signs (122 units).

### (A) IMPACT IDENTIFICATION

<p>Has sub-project a tangible impact on the environment?</p>	<p>The SP has a modest short term negative environmental impact while its long term impact is expected to be positive.</p> <p>The main impact will be during the construction phase, which includes works for arrangement of the road bed, pavement and ditches, movement and operation of heavy vehicles, supply of materials. The road to be rehabilitated is located within an area with strongly modified environment. Therefore the impact is transitory and insignificant (noise, emissions, construction waste, temporary disturbance of traffic and access).</p>
<p>What are the significant beneficial and adverse environmental effects of sub-project?</p>	<p>The expected negative environmental impacts are likely to be short term and typical for small to medium scale rehabilitation works in urban landscape: noise, dust, vibration, and emissions from the operation of construction machinery; generation of construction waste; disruption of traffic and pedestrian access.</p>

	<p>About 1750 m section of the road is bordered on both side by the Ajameti Managed Reserve. Works in the areas adjacent to this protected area may imply moderate risk of damaging the protected natural site.</p> <p>To minimize road crossing ponding and flooding risk, works for cleaning of the existing storm water ditches along the road is planned within the SP.</p> <p>Asbestos contained waste (approximately 3 m<sup>3</sup>) will be generated through demolition of the existing damaged drain asbestos pipes at the accessions of the courtyards. Asbestos pipes will be replaced by metal pipes.</p>
<p>May the sub-project have any significant impact on the local communities and other affected people?</p>	<p>The SP will have a long-term positive social impact through improving living and transportation conditions of the local population. It will decrease existing negative impacts on community such as dust, emissions and noise.</p> <p>No land take and relocation are expected.</p> <p>Due to narrow road corridor (about 7-8 m) that lies between private properties (residential yards), arrangement of sidewalks is impossible without involuntary resettlement, which is justifiable neither from financial, nor from social standpoint. Alarming signs will be arranged to increase pedestrian safety.</p> <p>Negative impacts are short term and limited to the construction site. They are related to the possible disturbance described above.</p>

**(B) MITIGATION MEASURES**

<p>Were there any alternatives to the sub-project design considered?</p>	<p>Road rehabilitation with the provision of sidewalks within settlements and without them was considered. The idea of sidewalks was discarded due to unjustifiable associated costs coming from private land take and disapproval of this option by local population.</p>
<p>What types of mitigation measures are proposed?</p>	<p>The expected negative impacts of the construction phase can be easily mitigated. The contractor will be responsible for the waste disposal at the permitted location, use the quarry materials from the licensed quarries only, prevent water and soil from pollution (fuel spills due to equipment failure, raw asphalt/concrete spills), avoid disturbance of population (noise, dust, emissions) through</p>

	<p>proper work/supplies scheduling, traffic management, good maintenance of the construction machinery.</p> <p>Asbestos pipes will be demolished allaying conventional safety rules and disposed on nearest municipal landfill in accordance with Rules and Norms for the Arrangement and Operation of Solid Waste Landfills (Governmental Decree #421, August 11, 2015).</p> <p>Along the Ajameti Managed Reserve the construction territory will be cordoned off with fencing. All staff will be strictly prohibited from foraging, logging or other damaging activities. Large trees of Imeretian Oak (specie included in the Red List of Georgia) along the road will be protected from cutting or unintentional damage by marking and cordoning off with fencing, their root system protected and any damage to the trees avoided.</p> <p>The road runs along and in the some sections cross gas pipeline operated by the ``SOCAR Georgia Gas-Imereti`` Ltd. All rehabilitation works within the SP will be implemented in coordination with the ``SOCAR Georgia Gas-Imereti`` Ltd. to avoid delay un the operation of the gas pipeline.</p> <p>Arrangement of warning road signs is envisaged to increase pedestrian safety.</p>
<p>What lessons from the previous similar projects have been incorporated into the sub-project design?</p>	<p>MDF have wide experience of implementation of medium and large scale road and streets rehabilitation subprojects financed by various donor organizations. Based on lessons learned from previous similar projects, design envisages not only rehabilitation of road pavement but also rehabilitation of storm water ditches which will backing further maintenance of the road cover.</p>
<p>Have concerned communities been involved and have their interests and knowledge been adequately taken into consideration in sub-project preparation?</p>	<p>The SP has been developed by the Zestaponi Municipality in consultation with the affected communities and as a response to the current situation.</p> <p>Local population is informed about scheduled rehabilitation works and has no claim on related disturbances.</p> <p>Draft EMP was disclosed on the web-site of MDF. Hard copies of the document was made available at the MDF and Zestaponi Municipality. Announcement on the public consultation meeting was placed on public information board in the administration building of Zestaponi Municipality Governance.</p> <p>MDF and local municipality organized consultation meeting with local population on October 1, 2015.</p>

### (C) RANKING

The project has been classified as environmental Category B according to the World Bank safeguards (OP 4.01) and requires Completion of the Environmental Management Checklist for Small Construction and Rehabilitation Activities.

### Social Screening

Social safeguards screening information		Yes	No
1	Is the information related to the affiliation, ownership and land use status of the sub-project site available and verifiable? (The screening cannot be completed until this is available)	✓	
2	Will the sub-project reduce people's access to their economic resources, such as land, pasture, water, public services, sites of common public use or other resources that they depend on?		✓
3	Will the sub-project result in resettlement of individuals or families or require the acquisition of land (public or private, temporarily or permanently) for its development?		✓
4	Will the sub-project result in the temporary or permanent loss of crops, fruit trees and Household infra-structure (such as ancillary facilities, fence, canal, granaries, outside toilets and kitchens, etc.)?		✓
If answer to any above question (except question 1) is "Yes", then OP/BP 4.12 Involuntary Resettlement is applicable and mitigation measures should follow this OP/BP 4.12 and the <b>Resettlement Policy Framework</b>			

**PART A: GENERAL PROJECT AND SITE INFORMATION**

<b>INSTITUTIONAL &amp; ADMINISTRATIVE</b>			
Country	Georgia		
Project title	Second Regional and Municipal Infrastructure Development		
Sub-Project title	Road connecting village Second Sviri and "Sviri Station" Rehabilitation		
Scope of site-specific activity	<p>Under this sub-project (SP), a 7 km long road section will get rehabilitated which connects villages Meore Sviri and Akhali Sviri (settlement Sviri Station) in Zestaponi Municipality. The road starts from Zestaponi-Baghdati motor road turn up to the village Meore Sviri. The road to be rehabilitated passes through populated as well as unpopulated areas. The existing motor road has gravel pavement which is much damaged. Neither vertical and horizontal curves nor grades meet engineering-technical requirements for motor roads. The drainage system is broken down, and water is flowing on the road pavement. The pavement is considerably eroded. Majority of the existing culverts is damaged and unserviceable and requires replacement or arrangement of the new ones in certain places. The road width is 8.5 meters. The SP envisages the expansion of only pavement of the road in the few sections up to 6 meters.</p> <p>The SP envisages the following works:</p> <ul style="list-style-type: none"> <li>• Arrangement of the road bed (grading earth with addition of sand-gravel);</li> <li>• Cleaning-arrangement of the existing earth ditches (cleaning - 3440 meters, arrangement – 4411m);</li> <li>• Arrangement of the road pavement (arrangement of base with loose rock and road metal, arrangement of cement/concrete pavement, arrangement of fill flanks by using gravel);</li> <li>• Arrangement of 6 portal walls and a metal culvert;</li> <li>• Arrangement of junctions and driveways;</li> <li>• Placement of road signs (122 units).</li> </ul>		
Institutional arrangements (WB)	Task Team Leader: Xiaolan Wang		Safeguards Specialist: Darejan Kapanadze
Implementation arrangements (Borrower)	Implementing entity: Municipal Development Fund of Georgia	Works supervisor: Consulting company Eptisa Servicios de Ingenieria S.L. Spain	Works contractor: Ltd "Indiko"

<b>SITE DESCRIPTION</b>	
Name of institution whose premises are to be rehabilitated	Zestaponi Municipality
Address and site location of institution whose premises are to be rehabilitated	11, Tsereteli street, Zestaponi Tel: 0( 492 ) 25 07 64
Who owns the land? Who uses the land (formal/informal)?	Municipal property
Description of physical and natural environment around the site	<p>Zestaponi Municipality is located in Imereti Region, in the furthest east of the Kolkheti Plateau. The city is built on the both banks of the river Kvirila. The Municipality is occupying a 423, 7 sq.m. area. Its population totals 76 208, out of which - 24 158 is urban population.</p> <p>The road to be rehabilitated under the project connects villages Meore Sviri and Akhali Sviri (Settlement Sviri Station). Villages are situated on the left bank of river Kvirila, at 230 m altitude above sea level.</p> <p>The distance from Meore Sviri to Zestafoni is 13 km. The population is mostly occupied in agriculture (viticulture, cattle breeding, horticulture).</p> <p>The road to be rehabilitated is passing through a plain relief, on the above the flood plain terrace of the river Kvirila, which is formed with alluvial pebble-cobble. The (SP) area is characterized by the following climatic conditions: annual air temperature averaging + 13.9°C and annual precipitations averaging- 1241 mm.</p> <p>The road to be rehabilitated passes through populated as well as unpopulated areas. There are agricultural lands located along the road (vineyards, cornfields, horticultural crops).</p> <p>In the villages Meore Sviri and Akhali Sviri (Station Sviri), there are residential houses, public school, church, commercial facilities situated along the road.</p> <p>Some section of the road (about 1750 m) runs along the Ajameti Managed Reserve, which is located 230 km away from Tbilisi and 15 km away from Kutaisi in districts of Baghdati and Zestaponi. Ajameti was formed as a strict nature reserve in 1946 to preserve rare and relict Imeretian Oak and Zelkova trees. The famous oaks of Ajameti are ancient natural treasures, with some of the trees being over 250 years old. In 2007 the protected area was re-established as managed</p>

	<p>reserve with total area 4,990.56 ha according to the law ``On Status of the Protected Areas``.</p> <p>There are Imeretian Oak (specie included in the Red List of Georgia) large trees along the road.</p> <p>The road runs along and in the some sections cross gas pipeline operated by the ``SOCAR Georgia Gas-Imereti`` Ltd. All rehabilitation works within the SP will be implemented in coordination with the ``SOCAR Georgia Gas-Imereti`` Ltd. to avoid delay un the operation of the gas pipeline.</p> <p>Nowadays the road is badly damaged that prevents the normal and safe movement of transport; reduce road capacity and leads to an increase in emissions.</p> <p>Due to narrow corridor of road (about 7-8 m) which lay between private properties (residential yards), arrangement of sidewalks is impossible without involuntary land take. This is advisable neither from financial nor from social standpoint. Speed limiting and warning signs will be arranged to increase pedestrian safety.</p> <p>Storm water will be discharged into the irrigation canals.</p>
<p>Locations and distance for material sourcing, especially aggregates, water, stones?</p>	<p>Water will be available at the construction site from the municipal water supply system.</p> <p>Nearest licensed borrow pit is located on the right bank of river Kvirila (approximately 1 km).</p>
<b>LEGISLATION</b>	
<p>National &amp; local legislation &amp; permits that apply to project activity</p>	<p>The SP has been classified as low risk Category B according to the World Bank policies and the ESMF.</p> <p>Zestaponi municipal authority approved the SP.</p> <p>Georgian legislation does not require any type of environmental review, approval, or permitting for the SP. Though according to the national regulatory system:</p> <ul style="list-style-type: none"> <li>(i) construction materials must be obtained from licensed providers,</li> <li>(ii) if contractor wishes to open quarries or extract material from river bed (rather than purchasing these materials from other providers), then the contractor must obtain licenses for extraction,</li> <li>(iii) if contractor wishes to operate own asphalt or concrete plant (rather than purchasing these materials from other providers), then the contractor must obtain an environmental permit with an established ceiling of pollutant concentrations in emissions and technical report on inventory of atmospheric air pollution stationary source agreed with Ministry of</li> </ul>



	<p>Environment and Natural Resources Protection.</p> <p>(iv) Permanent placement of the inert material (cut ground and sedimentary soil) generated in the course of earth works in a selected location must be approved by local (municipal) governing bodies and by the Supervising Company in written;</p> <p>(v) Construction waste should be disposed at the nearest municipal landfill;</p> <p>(vi) Dismantled asbestos pipes must be disposed on the nearest municipal landfill in accordance with Rules and Norms for the Arrangement and Operation of Solid Waste Landfills (Governmental Decree # 421, August 11, 2015).</p> <p>GOST and SNIP norms must be adhered.</p>
<b>PUBLIC CONSULTATION</b>	
<p>When / where the public consultation process will take /took place</p>	<p>Draft EMP was disclosed on the web-site of MDF. Hard copies of the document was made available at the MDF and Zestaponi Municipality. Announcement on the public consultation meeting was placed on public information board in the administration building of Zestaponi Municipality Governance.</p> <p>MDF and local municipality organized consultation meeting with local population on October 1, 2015. Documents on public Consultations are attached.</p>
<b>ATTACHMENTS</b>	
<p>Attachment 1: Site map and pictures</p> <p>Attachment 2: Record on public consultation</p> <p>Attachment 3: Agreements on waste disposal</p> <p>Attachment 4: Copy of license for inert material extraction</p>	

**PART B: SAFEGUARDS INFORMATION**

<b>ENVIRONMENTAL /SOCIAL SCREENING</b>			
	<b>Activity/Issue</b>	<b>Status</b>	<b>Triggered Actions</b>
Will the site activity include/involve any of the following?	A. Building rehabilitation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Section <b>A</b> below
	B. New construction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Section <b>A</b> below
	C. Individual wastewater treatment system	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Section <b>B</b> below
	D. Historic building(s) and districts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Section <b>C</b> below
	E. Acquisition of land <sup>1</sup>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Section <b>D</b> below
	F. Hazardous or toxic materials <sup>2</sup>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Section <b>E</b> below
	G. Impacts on forests and/or protected areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Section <b>F</b> below
	H. Handling / management of medical waste	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Section <b>G</b> below
	I. Traffic and Pedestrian Safety	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Section <b>H</b> below

<sup>1</sup> Land acquisitions includes displacement of people, change of livelihood encroachment on private property this is to land that is purchased/transferred and affects people who are living and/or squatters and/or operate a business (kiosks) on land that is being acquired.

<sup>2</sup> Toxic / hazardous material includes but is not limited to asbestos, toxic paints, noxious solvents, removal of lead paint, etc.

**PART C: MITIGATION MEASURES**

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
O. General Conditions	Notification and Worker Safety	<ul style="list-style-type: none"> <li>(a) The local construction and environment inspectorates and communities have been notified of upcoming activities</li> <li>(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)</li> <li>(c) All legally required permits have been acquired for construction and/or rehabilitation</li> <li>(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.</li> <li>(e) Workers' PPE will comply with international good practice (always hardhats, as needed masks and safety glasses, harnesses and safety boots)</li> <li>(f) Appropriate signposting of the sites will inform workers of key rules and regulations to follow.</li> </ul>
A. General Rehabilitation and /or Construction Activities	Air Quality	<ul style="list-style-type: none"> <li>(a) Demolition debris shall be kept in controlled area and sprayed with water mist to reduce debris dust</li> <li>(b) During pneumatic drilling/wall destruction dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site</li> <li>(c) The surrounding environment (sidewalks, roads) shall be kept free of debris to minimize dust</li> <li>(d) There will be no open burning of construction / waste material at the site</li> <li>(e) There will be no excessive idling of construction vehicles at sites</li> <li>(f) Truck loads should be confinement and protected with lining.</li> </ul>
	Noise	<ul style="list-style-type: none"> <li>(a) Construction noise will be limited to restricted times agreed to in the permit</li> <li>(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</li> <li>(c) The machinery should move only along the preliminarily agreed route;</li> <li>(d) The maximum allowed speed should be restricted;</li> <li>(e) Proper technical control and maintenance practices of the machinery should be applied;</li> <li>(f) No-load operations of the vehicles and heavy machinery are not allowed. Proper mufflers will be used on machinery.</li> </ul>
	Water Quality	<ul style="list-style-type: none"> <li>(a) Contractor will be required to organize and cover material storage areas. The material storage sites should be protected from washing out during heavy rain falls and flooding through covering by impermeable materials. Appropriate erosion and sediment control measures will be established such as e.g. hay bales and / or silt fences to prevent sediment from moving off site and causing excessive turbidity in nearby streams and rivers;</li> <li>(b) Contractor will plan all excavations, topsoil and subsoil storage so as to reduce to a minimum any runoff;</li> <li>(c) Revision of vehicles will be required to ensure that there is no leakage of fuel and lubricating materials. All machinery will be maintained and operated such that all leaks and spills of materials will be minimised. Daily plant checks (Vehicle Maintenance Procedure) will be undertaken to ensure no leaks or other problems are apparent. Vehicle maintenance, cleaning, degreasing etc. will be undertaken in designated areas, of hard-standing, not over made ground. Maintenance points will not be located within 50m of any watercourse;</li> <li>(d) Lubricants, fuel and solvents should be stored and used for servicing machinery exclusively in the designated sites, with</li> </ul>

		<p>adequate lining of the ground and confinement of possible operation and emergency spills. Spill containment materials (sorbents, sand, sawing, chips etc.) should be available on construction site;</p> <p>(e) Wet cement and/or concrete will not be allowed to enter any watercourse, pond or ditch.</p> <p>(f) <u>Works on the bridges.</u> Contractor shall ensure proper handling of paints materials, oil and lubricants to avoid any spillage of them into the water. It is not advised to paint the metal railings with the sprayer. Storage of potentially polluting materials within 50 m of watercourses is prohibited. Dumping of waste in the rivers/watercourses is prohibited.</p>
	Waste management	<p>(a) Waste collection and disposal pathways and sites will be identified for all major waste types expected from demolition and construction activities.</p> <p>(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.</p> <p>(c) The records of waste disposal will be maintained as proof for proper management as designed.</p> <p>(d) Whenever feasible the contractor will reuse and recycle appropriate and viable materials (except asbestos)</p>
	Material supply	<p>a) Use existing plants, quarries or borrow pits that have appropriate official approval or valid operating license.</p> <p>b) Obtain licenses for any new quarries and/or borrowing areas if their operation is required;</p> <p>c) Reinstate used sections of quarries and/or borrowing areas as extraction proceeds on or properly close quarries if extraction completed and license expired;</p> <p>d) Haul materials in off peak traffic hours;</p> <p>e) Place speed regulating, diverting, and warning signs for traffic as appropriate.</p>
<b>E. Toxic Materials</b>	Asbestos management	<p>(a) asbestos located on the SP site shall be marked clearly as hazardous material;</p> <p>(b) asbestos will be appropriately contained and sealed to minimize exposure;</p> <p>(c) The asbestos prior to removal will be treated with a wetting agent to minimize asbestos dust;</p> <p>(d) Asbestos will be handled and disposed by skilled &amp; experienced professionals equipped with special PPE;</p> <p>(e) If asbestos material is stored temporarily, the wastes should be securely enclosed inside closed containments and marked appropriately. Security measures will be taken against unauthorized removal from the site.</p> <p>(f) The removed asbestos will not be reused;</p> <p>(g) The asbestos will finally disposed on the nearest official landfill in accordance with Rules and Norms for the Arrangement and Operation of Solid Waste Landfills (Governmental Decree # 421, August 11, 2015).</p>
	Toxic / hazardous substances 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) The containers of hazardous substances shall be placed in an leak-proof container to prevent spillage and leaching</p> <p>(c) The wastes shall be transported by specially licensed carriers and disposed in a licensed facility.</p> <p>(h) Paints with toxic ingredients or solvents or lead-based paints will not be used</p>
<b>F. Affected forests, wetlands and/or protected areas</b>	Protection	<p>(a) Trees, especially Imeretian Oak, (species included in the Red List of Georgia) along the road must be protected from cutting or unintentional damage; All large trees shall be marked and cordoned off with fencing, their root system protected, and any damage to the trees avoided;</p> <p>(b) Protected area in the immediate vicinity of the activity will not be damaged or exploited, all staff will be strictly prohibited from hunting, foraging, logging or other damaging activities.</p> <p>(d) There will be no unlicensed borrow pits, quarries or waste dumps in adjacent areas, especially not in protected areas.</p>
<b>H Traffic and</b>	Direct or indirect	<p>(a) In compliance with national regulations the contractor will insure that the construction site is properly secured and</p>

Pedestrian Safety	hazards to public traffic and pedestrians by construction activities	construction related traffic regulated. This includes but is not limited to <ul style="list-style-type: none"><li>▪ Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards</li><li>▪ Traffic management system and staff training, especially for site access and near-site heavy traffic. Provision of safe passages and crossings for pedestrians where construction traffic interferes.</li><li>▪ Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement</li><li>▪ Active traffic management by trained and visible staff at the site, if required for safe and convenient passage for the public.</li><li>▪ Ensuring safe and continuous access to office facilities, shops and residences during renovation activities, if the buildings stay open for the public.</li><li>▪ To arrange speed bumps to reduce vehicle speed and appropriate signs (road narrows/mind pedestrians) in agreement with local traffic police.</li></ul>
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**PART D: MONITORING PLAN**

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?)
<b>CONSTRUCTION PHASE</b>						
Supply with construction materials	Purchase of construction materials from the officially registered suppliers	In the supplier's office or warehouse	Verification of documents	During conclusion of the supply contracts	To ensure technical reliability and safety of infrastructure	MDF, Construction supervisor
Transportation of construction materials and waste  Movement of construction machinery	Technical condition of vehicles and machinery;  Confinement and protection of truck loads with lining;  Respect of the established hours and routes of transportation	Construction site	Inspection	Unannounced inspections during work hours and beyond	Limit pollution of soil and air from emissions;  Limit nuisance to local communities from noise and vibration;  Minimize traffic disruption.	MDF, Construction supervisor, Traffic Police

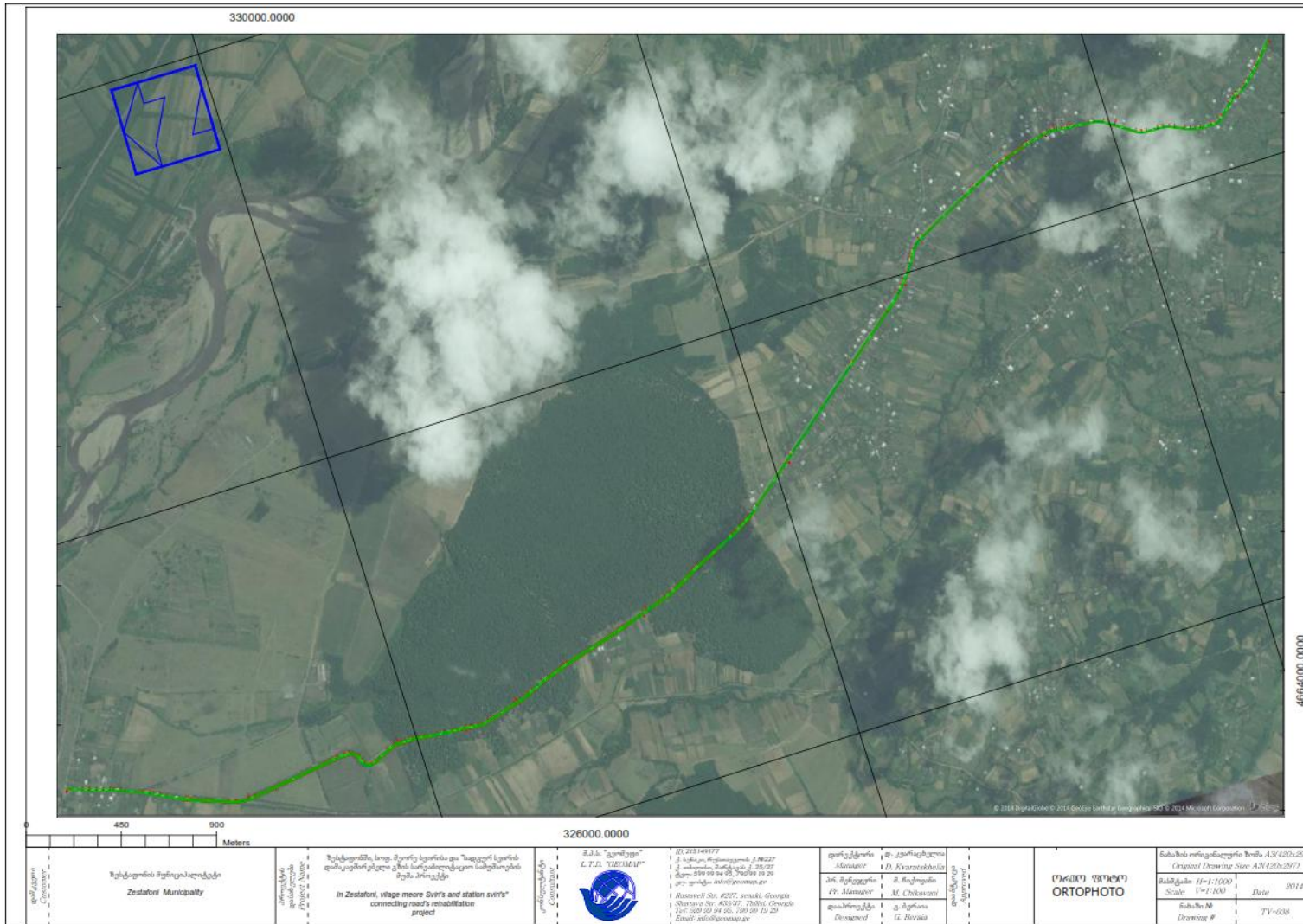
<p>Sourcing of inert material</p>	<p>Purchase of material from the existing suppliers if feasible;</p> <p>Obtaining of extraction license by the works contract and strict compliance with the license conditions;</p> <p>Terracing of the borrow area, backfilling to the exploited areas of the borrow site, and landscape harmonization;</p> <p>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.</p>	<p>Borrowing areas</p>	<p>Inspection of documents Inspection of works</p>	<p>In the course of material extraction</p>	<p>Limiting erosion of slopes and degradation of ecosystems and landscapes;</p> <p>Limiting erosion of river banks, water pollution with suspended particles and disruption of aquatic life.</p>	<p>MDF, Construction supervisor</p>
<p>Generation of construction waste</p>	<p>Temporary storage of construction waste in especially allocated areas;</p> <p>Timely disposal of waste to the formally designated locations</p>	<p>Construction site; Waste disposal site</p>	<p>Inspection</p>	<p>Periodically during construction and upon complaints</p>	<p>Prevent pollution of the construction site and nearby area with solid waste</p>	<p>MDF, Construction supervisor</p>
<p>Traffic disruption and limitation of pedestrian access</p>	<p>Installation of traffic limitation/diversion signage;</p> <p>Storage of construction materials and temporary placement of construction waste in a way preventing congestion of access roads</p>	<p>At and around the construction site</p>	<p>Inspection</p>	<p>In the course of construction works</p>	<p>Prevent traffic accidents; Limit nuisance to local residents</p>	<p>MDF, Construction supervisor</p>

Asbestos management	<p>Asbestos located on the SP site is appropriately contained and marked clearly as hazardous material;</p> <p>Asbestos is handled and disposed by skilled &amp; experienced professionals equipped with special PPE</p> <p>Security measures are taken against unauthorized removal from the site.</p> <p>The dismantled asbestos pipes is disposed on official landfill.</p>	At construction site	<p>Inspection of documents</p> <p>Inspection of works</p>	In the course of demolition works	<p>Prevent pollution by toxic materials</p> <p>To protect workers' health</p>	MDF, Construction supervisor
Protection of vegetation and landscape	<p>Construction territory along the Ajameti Managed Reserve is cordoned off with fencing.</p> <p>Large trees of Imeretian Oak along the road are marked and cordoned off with fencing and protected from cutting or unintentional damage.</p> <p>Protected area in the immediate vicinity of the activity is not damaged or exploited.</p>	At construction site along the Ajameti Managed Reserve	Inspection	Periodically during construction and upon complaints	Protection of adjacent landscapes and vegetation, especially Red listed species.	MDF, Construction supervisor
Workers' health and safety	Provision of uniforms and safety gear to workers;	Construction site	Inspection	Unannounced inspections in the course of work	Limit occurrence of on-the-job accidents and	MDF, Construction supervisor



	Informing of workers and personnel on the personal safety rules and instructions for operating machinery/equipment, and strict compliance with these rules/instructions				emergencies	
<b>OPERATION PHASE</b>						
Maintenance of rehabilitated road	<p>Maintenance of relevant road signage for traffic safety;</p> <p>Demarcation of the sections of streets under repair;</p> <p>Disposal of asphalt and or other waste from the repair works to the designated landfill.</p>	Rehabilitated sections of roads	Inspection	During maintenance works	Prevent road accidents and disruption of traffic	Zestaponi municipality

# Attachment 1. Map and pictures of the roads to be rehabilitated









## **Attachment 2: Documents on public consultation**

October 1 , 2015

**Zestaponi Municipality, village Sviri**

**Public Consultation**

**Environmental Management Plan**

**Rehabilitation of Road connecting villages second Sviri and Sviri station in Zestaponi Municipality**

On October 1, 2015 in Zestaponi municipality in the building of Sviri public school was held public Consultation of sub-project for the rehabilitation of a road connecting village second Sviri and Sviri station Environmental and Social Management plan. The meeting aimed to inform local population on sub-project related activities, the expected negative impacts on the natural and social environment and the ways and means of preventing them.

**The meeting was attended by locals of the village second sviri and sviri:** Nino Waqadze, Amiran Tutarashvili, Ivlan Tutarashvili, Tamaz Gurgidze, Avtandil Tutarashvili, Waqadze Tarieli, Kamladze Tarieli, Machitidze Amirani, Goderdzi Cinadze, Machavariani Merabi, Machitidze Mevludi, Tutarashvili Tarieli, Maglakelidze Giorgi, Tutarashvili Avtandili, Gocha Saxeladze, Roman Jugeli.

**Representatives of the village Tskhentaro:** Kvinikadze Suliko, Kamladze Valeri.

**Representatives of the Municipal Development Fund of Georgia:** Nino Patarashvili - Environmental Safety Specialist, Nona Tchichinadze-Social and Gender Specialist; Shalva Kokochashvili-Project Manager.

The meeting was opened by Nino Patarashvili and she presented information about the meeting goals and project construction works. She presented the sub-project of Social and Environmental Management Plan. Shortly explained the social and environmental screening procedures applied for the WB funded SPs and environmental and social requirements of the presented SP. Reviewed the works which are planned within the framework of the sub-project. Social and Environmental impact on the environment and the mitigation measures which are necessary to prevent negative impacts in the process of the project implementation.

Nino Patarashvili discussed the structure and content of Environmental Review including environmental management plan, measures which are necessary to be implemented and Sub-Project environmental monitoring.

She noted that EMP forms an integral part of the contract made with the civil works contractor. The last one is responsible for performance of mitigation measures envisaged under the EMP to protect social and natural environment. Nino Patarashvili informed the participants about the contact persons to be communicated by the population in case of existence of any complaints concerning environmental or social issues.

Nona Tchichinadze introduced the social results which will be implemented by the rehabilitation of sub-project second Sviri and Sviri station connecting road. Firstly, the rehabilitation and construction of the road will help to improve the environmental conditions and temporary employment in the local population.

After the presentation, the audience was given a possibility to express their opinions and/or participate in Q&A session concerning presented issues, they posed the following question.

<b>Questions and remarks</b>	<b>Answers and comments</b>
Locals expressed their interest about the tender conditions and terms.	Tender is already announced and they are expecting construction contractor. After the selection process the project will start immediately
Is there scheduled any new projects in future in the municipality?	RMDP 2 looks at the issues of Zestafoni wastewater treatment facility. Currently, the type of a treatment facility is under consideration.
Does the project include transfer of the power of transmission lines?	The project does not include the transfer of power transmission lines.
In the part of Adjameti, where the road aimed for rehabilitation passes through, there are dead trees which are dangerous for people who are using this road. People expressed their interest in whether these trees will be removed.	Sub-project does not include cutting down trees along the road. Because the area is in immediate proximity to Adjameti protected area, the issue of trees that threaten traffic safety shall be agreed by the local municipality with the Agency of Protected Areas.

At the end of the meeting the audience expressed their positive attitude towards the project and their hope that construction works of this sub project rehabilitation of road connecting villages second Sviri and Sviri station will be implemented on time.

Photo material and copy of meeting participants' registration list are hereby enclosed.

Minutes prepared by Nino Patarashvili Environmental Safety Specialist.

October 1, 2015

List of Participants

რეგიონული და მუნიციპალური ინფრასტრუქტურის განვითარების მეორე პროექტი

ზესტაფონის მუნიციპალიტეტში სოფელ მეორე სვირისა და სვირის სადგურის დამაკავშირებელი გზის რეაბილიტაცია

ქვე-პროექტის ბუნებრივ და სოციალურ გარემოზე ზემოქმედების სკრინინგის დოკუმენტისა

და გარემოზე ზემოქმედების მართვის გეგმის საჯარო განხილვა

1 ოქტომბერი 2015 წელი

შეხვედრაზე დამსწრეთა რეგისტრაციის ფურცელი

	სახელი, გვარი	ორგანიზაცია	საკონტაქტო ინფორმაცია	ხელმოწერა
1.	ნინო მუქაძე	მე-2 სკოლის ას/საკუთრი სკოლა	577 317 841	ნ. მუქაძე
2.	ვალანტინა ვირაძისძე	ხობისკა მე-2 განყოფილება	551-17-10-11	ვ. ვირაძისძე
3.	სოსო მთავრისძე	II სკოლა ქ. მთავრისძე	599 76-63-89	ს. მთავრისძე
4.	ოვანეს თვარიაშვილი	II სკოლა	599-968357	ო. თვარიაშვილი
5.	სოსო მთავრისძე	II სკოლა	599-96-25-09	ს. მთავრისძე
6.	ავთანდილ თვარიაშვილი	II სკოლა	599.92-28-58	ა. თვარიაშვილი



	სახელი, გვარი	ორგანიზაცია	საკონტაქტო ინფორმაცია	ხელმოწერა
7.	ბაჩუაძე რიკო	სს სპიხ სპორტული ცენტრი	593 99 77 10	ბაჩუაძე რიკო
8.	ქაიკაძე ნოდარ	სს სპიხ სპორტული ცენტრი	591 40 78 64	ქაიკაძე ნოდარ
9.	ამიანი შიგინი	შპს სპიხ სპორტული ცენტრი	599 216907	ამიანი შიგინი
10.	გაბრიაძე გიორგი	მუსიკალური სკოლა	577-31-73-04	გაბრიაძე გიორგი
11.	ბერიძე თინათინ	შპს სპიხ სპორტული ცენტრი	598-297595	ბერიძე თინათინ
12.	მეჩაძე მარტინი	შპს სპიხ სპორტული ცენტრი	568-89-12-49	მეჩაძე მარტინი
13.	ბერიძე მარტინი	შპს სპიხ სპორტული ცენტრი	591713263	ბერიძე მარტინი
14.	ბერიძე თინათინ	შპს სპიხ სპორტული ცენტრი	555 35 75 53	ბერიძე თინათინ
15.	ქობულაძე სერგეი	სს სპიხ სპორტული ცენტრი	595 333 851	ქობულაძე სერგეი
16.	ბერიძე თინათინ	შპს სპიხ სპორტული ცენტრი	557-04-55-22	ბერიძე თინათინ


	სახელი, გვარი	ორგანიზაცია	საკონტაქტო ინფორმაცია	ხელმოწერა
17.	აივანის შვილი სპორტსმენი	ინსტიტუტის სატელეფონო სამსახური	598-77-32-50	ა. აივანიძე
18.	ვაჟაშვილი ვაჟა	მუნიციპალიტეტის სამსახური	551704411	ვ. ვაჟაშვილი
19.	ხარბანტყელი	ს. სპორტის ცენტრი	592-60-30-02	ხ. ხარბანტყელი
20.	გობის მსახური	ს. სპორტის ცენტრი	593-47-57-40	გ. გობის მსახური
21.				
22.				
23.				
24.				
25.				
26.				



**Attachment 3: Agreement on waste disposal**

<div data-bbox="277 354 338 456"></div> <div data-bbox="348 391 842 418" data-label="Text"><p>ზესტაფონის მუნიციპალიტეტის გამგეობა</p></div> <div data-bbox="474 435 760 457" data-label="Text"><p>MUNICIPALITY OF ZESTAFONI</p></div> <div data-bbox="863 358 924 456"></div> <div data-bbox="331 522 407 561" data-label="Text"><p>N 43/332 09/02/2016</p></div> <div data-bbox="659 479 909 557" data-label="Text"><p>ზესტაფონი, 2000, წერეთლის ქ. № 11 Tsereteli St. № 11, Zestafoni, 2000, Georgia (0492) 25-26-26, (0492) 25-27-66 E-mail: <a href="mailto:gamgeoba.zestafoni@gmail.com">gamgeoba.zestafoni@gmail.com</a> Website: <a href="http://www.zestafoni.com">www.zestafoni.com</a></p></div> <div data-bbox="730 625 932 665" data-label="Text"><p>შ.პ.ს „ინდიკო“-ს დირექტორს ქალბატონ მანანა გვასალიას</p></div> <div data-bbox="663 678 932 719" data-label="Text"><p>მისამართი: სოხუმის გზატკეცილი №1 E-mail: <a href="mailto:info@indico.ge">info@indico.ge</a></p></div> <div data-bbox="331 776 932 906" data-label="Text"><p>თქვენი (№1487/43.01.02.2016) წერილის პასუხად, რომელიც შეეხებოდა სოფელ მეორე სვირში სარეაბილიტაციო სამუშაოების მიმდინარეობის პროცესში დაგროვებულ საშენებლო ნარჩენებისათვის ტერიტორიის გამოყოფას, გაცნობებთ რომ, ზემოთაღნიშნული ნარჩენები განათავსდეს სადგურ სვირის მიმდებარე ტერიტორიაზე. გთხოვთ, სამუშაოების დაწყებამდე მოახდინოთ შეთანხმება ზესტაფონის მუნიციპალიტეტის გამგეობასთან.</p></div> <div data-bbox="382 966 491 989" data-label="Text"><p>პატივისცემით,</p></div> <div data-bbox="331 1008 485 1029" data-label="Text"><p>ტარიელ ბუიარაშვილი</p></div> <div data-bbox="436 1036 499 1084"></div> <div data-bbox="331 1079 596 1102" data-label="Text"><p>ზესტაფონის მუნიციპალიტეტის გამგებელი</p></div>	<div data-bbox="1499 431 1879 462" data-label="Text"><p>To the Director of LLC "Indiko"</p></div> <div data-bbox="1037 537 1883 643" data-label="Text"><p>Regarding your letter N1487, we would like to let you know that the construction waste, derived from the rehabilitation works in village Meore Sviri, could be placed nearby Sviri Station.</p></div> <div data-bbox="1037 680 1883 748" data-label="Text"><p>Please address Zestaponi Municipality prior to commencement of works.</p></div> <div data-bbox="1037 787 1167 821" data-label="Text"><p>Sincerely,</p></div> <div data-bbox="1037 859 1442 893" data-label="Text"><p>Zestaponi Municipality Governor</p></div>
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Attachment 4. License for the extraction of natural construction material

 <p>საქართველო</p> <p>სამხრეთი ქვეყნის საგარეო ურთიერთობების სამინისტრო</p> <p>საქართველოს იურიდიული პირი გარეგნულ საგარეო ურთიერთობების სახარგებლო წიადისტრუქციის მოპოვების ლიცენზია</p> <p>№ 1002755</p> <p>2015 წლის 16 ივლისი</p> <p>სადასტურებელი: შპს „ინდიკორ“-ში, ს/კ 239 862 298;</p> <p>საფუძველი: _____</p> <p>სსიპ გარეგნული ურთიერთობების სამსახურის უფროსის 2015 წლის 16 ივლისის №1099/ს ბრძანებით.</p> <p>ლიცენზიით გათვალისწინებული ტერიტორიის მდებარეობა და ფართობი: _____ ხაზით</p> <p>მინერალური რესურსების მფლობელი: შპს „ინდიკორ“-ში, ს/კ 239 862 298; “ინდიკორ“-ში (ს/კ 239 862 298); K-38 49-რ- მდებარეობს გომიზარბაზუმის რუკა (ლიცენზიის განმარტების ნაწილი); სადასტურებელი: შპს „ინდიკორ“-ში, ს/კ 239 862 298; (ს. შპსი - 0.99 კა, II შპსი - 0.96 კა).</p>	<p>Georgia</p> <p>Ministry of Environment and Natural Resources Protection of Georgia</p> <p>LEPL National Environmental Agency</p> <p>Mineral extraction license</p> <p>N1002755</p> <p>2015 July 16</p> <p><u>License Holder:</u> LLC “Indiko”</p> <p><u>Legal basis:</u> N1099/s Order of July 16, 2015 of the Head of LEPL National Environmental Agency</p> <p><u>The licensed area:</u> Khoni Municipality, nearby village Matkhoji, sand-gravel quarry of river Tskhenistskali</p> <p>The license is valid for four years until from 16.07.2015 until 17.07.2019</p>
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მისამართი რეზიუმის სახეობა და მოცულობა:

„ინვესტორული“ კაპიტალიზაციის პროგრამის (ქვეპროგრამა) -  
58 500 კვადრატული მეტრი.

სალიცენზიო პირობები:

ბანკისგან სსიპ ბანკის პროგრამის საბანკო უზენაესი 2015 წლის 16  
თებლის №1099/ს ბრძანებით.

ლიცენზიის მოქმედების ვადა - 4 წელი, -16.07.2015- დან 17.07.2019- მდე

სსიპ „გარეშის ეროვნული სააგენტოს“  
უფლებამოსილი წარმომადგენელი

(უფლებამოსილი)

ბ.ა.

გადაცემის სააგენტოს პირობები და  
კიდევ მასტერპლანის მიხედვით  
შესრულებაზე

(უფლებამოსილი)

ბ.ა.

დამკვეთი: სსიპ გარეშის ეროვნული სააგენტო  
დამამზადებელი: შპს „კაპიტალი“  
სესი-4 რეგისტრაციის № 23-4000