



**Village Salkhino-Letsave-Balda road (Martvili Municipality)  
Rehabilitation**

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

**WORLD BANK FINANCED**

**SECOND REGIONAL AND MUNICIPAL INFRASTRUCTURE DEVELOPMENT PROJECT**

**Tbilisi, Georgia**

## Environmental Screening

Sub-project (SP) will rehabilitate road connecting villages Salkhino-Letsava-Balda with total length 6 611 m in Martvili municipality, Samegrelo-Zemo Svaneti region.

The SP includes:

- Rehabilitation of the road cover with asphalt layer;
- Installation of the concrete ditches (20 m);
- Installation of the metal pipes (332 m);
- Arrangement of the ground ditches;
- Cleaning of the existing storm water concrete ditches and pipes;
- Arrangement of the retaining wall along the road section pk 13+55 (20 m).

### (A) IMPACT IDENTIFICATION

|   |   |
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| Has sub-project a tangible impact on the environment?                                 | <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 laying various layers, movement and operation of heavy vehicles, supply of materials. The roads to be rehabilitated are located within a settlement with strongly modified environment. Therefore the impact is transitory and insignificant (noise, emissions, construction waste, temporary disturbance of traffic and access, etc.).</p>   |
| What are the significant beneficial and adverse environmental effects of sub-project? | <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>The expected negative environmental and social 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>To minimize road crossing ponding and flooding risk, works for cleaning of existing storm water ditches and pipes, as well as arrangement of the concrete and ground ditches along the road is planned within the SP.</p> <p>Due to narrow road corridors (about 5 m) that lay between private properties (residential yards), arrangement of sidewalks is impossible without involuntary resettlement, which is justifiable</p> |

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|   | neither from financial, nor from social standpoint. Speed bumps and limiting signs will be arranged to increase pedestrian safety.  |
| May the sub-project have any significant impact on the local communities and other affected people? | <p>No land take and relocation are expected.</p> <p>The long term social impact will be beneficial (improvement of local population's living conditions, better traffic safety conditions, convenience of travelling).</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**

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|--|---|
| Were there any alternatives to the sub-project design considered?  | Given that the SP envisages rehabilitation of the existing infrastructure, no alternatives have been considered.  |
| What types of mitigation measures are proposed?  | 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 etc.), avoid disturbance of population (noise, dust, emissions) through proper work/supplies scheduling, traffic management, good maintenance of the construction machinery, etc.  |
| What lessons from the previous similar projects have been incorporated into the sub-project design?  | 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 street cover.   |
| Have concerned communities been involved and have their interests and knowledge been adequately taken into consideration in sub-project preparation? | <p>The SP has been developed by the 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 available at the MDF and Martvili Municipality. Announcement on the public consultation meeting was placed on public information board in the administration building of Martvili municipality Governance.</p> |

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|  | MDF and local municipality organized consultation meeting with local population on March 5, 2015. Documents on public consultations are attached. |
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### (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

| INSTITUTIONAL & ADMINISTRATIVE  |  |   |   |
|---|--|---|---|
| Country   | Georgia  |   |   |
| Project title   | Regional and Municipal Infrastructure Development  |   |   |
| Sub-Project title   | Village Salkhino-Letsave-Balda road (Martvili Municipality)<br>Rehabilitation  |   |   |
| Scope of site-specific activity   | <p>The SP will rehabilitate road connecting villages Salkhino-Letsave-Balda with total length 6 611 m in Martvili municipality, Samegrelo-Zemo Svaneti region.</p> <p>The SP includes:</p> <ul style="list-style-type: none"> <li>- Rehabilitation of the road cover with asphalt layer;</li> <li>- Installation of the concrete ditches (20 m);</li> <li>- Installation of the metal pipes (332 m);</li> <li>- Arrangement of the ground ditches;</li> <li>- Cleaning of the existing storm water concrete ditches and pipes;</li> <li>- Arrangement of the retaining wall along the road section pk 13+55 (20 m).</li> </ul> |   |   |
| Institutional arrangements (WB)   | Task Team Leader:<br>Xiaolan Wang  |   | Safeguards Specialist:<br>Darejan Kapanadze |
| Implementation arrangements (Borrower)  | Implementing entity:<br>Municipal Development Fund of Georgia  | Works supervisor:<br>Consulting company Eptisa Servicios de Ingenieria S.L. Spain | Works contractor:<br>Ltd "Geomsheni-2004"   |
| SITE DESCRIPTION  |  |   |   |
| Name of institution whose premises are to be rehabilitated                      | Martvili Municipality  |   |   |
| Address and site location of institution whose premises are to be rehabilitated | <p>10, Tavisupleba street, 3100, Martvili<br/>Tel: 0( 418 ) 220060; 577 95 91 93<br/>Email: martvilisgamgeoba@gmail.com</p> <p>The SP site is located in western Georgia, Samegrelo-Zemo Svaneti region. Distance from Tbilisi is 300 km.</p>  |   |   |
| Who owns the land?<br>Who uses the land (formal/informal)?                      | Municipal property   |   |   |
| Description of physical and natural environment around the site                 | <p>Martvili Municipality is located in north-eastern part of west Georgia, on Odishi lowland and southern slopes of Egrisi mountain range. Southern part of Martvili territory is occupied with the lowland, which elevates from 60 to 170 meters from south-west north-</p>   |   |   |

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|   | <p>eastward. The highest point - river Tekhura outfall is located at 3003 meter altitude above sea level. Total area of the Municipality is 881 sq.km., number of population — 56 thousand (2004.).</p> <p>The road, which will undergo rehabilitation under the SP, starts at the bridge laid across the river Okitse, which divides the villages Meore Balda and Mesame Balda, runs along agricultural holdings (croplands and orchards) and bushed slopes, crosses the rivers Apkhazura and Tsachkhura and ends in the village Salkhino area, by the turn of the road to Martvili. River Tsachkhura is the left tributary of the river Tekhura, length 12 km, average annual discharge rate by the outfall - 9.0m<sup>3</sup>/sec. Existing bridges across the above-mentioned rivers are in a good condition and the SP does not envisage their rehabilitation works.</p> <p>Village Salkhino is located on the left bank of the river Tekhura, at 250 meter altitude above the sea level, at 15 kilometer distance from Martvili. According to the year 2002 census, number of populations is 1163. Village Letsave is located on the western slope of Askhi massif, on the left bank of river Tsachkhura (left tributary of Tekhura), at 290 meter altitude above the sea level. There are 215 inhabitants in the village. The village Meore Balda is located on the right bank of river Abasha, at 300 meter altitude above the sea level, at 10 km distance from Martvili. According to the year 2002 census, there are some 472 residents in the village.</p> <p>The road to be rehabilitated was constructed decades ago. 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 5 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 bumps and limiting signs will be arranged to increase pedestrian safety.</p> <p>Storm water will be discharged into the small streams and in the rivers crossed by the road.</p> |
| Locations and distance for material sourcing, especially aggregates, water, stones? | <p>Water will be available at the construction site from the municipal water supply system.</p> <p>Distance to the nearest licensed borrow pit is approximately 15-20 km.</p>   |
| <b>LEGISLATION</b>  |   |
| National & local legislation & permits that apply to project activity               | <p>The SP has been classified as low risk Category B according to the World Bank policies and the ESMF.</p> <p>Martvili 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 Environment and Natural Resources Protection.</li> <li>(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 in written;</li> <li>(v) Construction waste must be disposed on the nearest municipal landfill in accordance with written mutual agreement with operating company.</li> </ul> <p>GOST and SNIP norms must be adhered.</p> |
| <b>PUBLIC CONSULTATION</b>  |  |
| When / where the public consultation process will take /took place  | <p>Draft EMP was disclosed on the web-site of MDF. Hard copies of the document was available at the MDF and Martvili Municipality. Announcement on the public consultation meeting was placed on public information board in the administration building of Martvili municipality Governance.</p> <p>MDF and local municipality organized consultation meeting with local population on March 5, 2015.</p>   |
| <b>ATTACHMENTS</b>  |  |
| <p>Attachment 1: Site map and pictures</p> <p>Attachment 2: Record on public consultation</p> <p>Attachment 3: License for extraction of natural construction material</p> <p>Attachment 4: Agreement on waste disposal</p> |  |

## PART B: SAFEGUARDS INFORMATION

| ENVIRONMENTAL /SOCIAL SCREENING                              |  |   |                            |
|--|--|---|----------------------------|
| Will the site activity include/involve any of the following? | Activity/Issue                               | Status  | Triggered Actions          |
|  | 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No | See Section <b>E</b> below |
|  | G. Impacts on forests and/or protected areas | <input type="checkbox"/> Yes <input checked="" 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  |
|--|--------------------------------|--|
| <b>0. General Conditions</b>                                     | 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>   |
| <b>A. General Rehabilitation and /or Construction Activities</b> | 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> <li>(g) Unpaved roads should be watered , vehicles speed should be limited up to 35km/hr.</li> </ul>   |
|  | Noise                          | <ul style="list-style-type: none"> <li>(a) Construction noise will be limited from restricted 07-00 to - 19.00; additional working hours should be coordinated with municipal board and MDF if required.</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 which will minimize noise;</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 minimized. 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> </ul> |

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|  |   | (d) Lubricants, fuel and solvents should be stored and used for servicing machinery exclusively in the designated sites, with 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; Contractor has to ensure waterbed and underground water protection from getting oil and other polluting materials including water-bearing layer. Wet cement and/or concrete and asphalt will not be allowed to enter any watercourse, pond or ditch.  |
|  | 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) Excess ground formed due to the earth works should be placed at pre-defined locations agreed with municipality board.</p> <p>(d) Construction waste disposal at appropriate landfills.</p> <p>(e) The records of waste disposal will be maintained as proof for proper management as designed.</p> <p>(f) 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) Terracing inert material quarry.</p> <p>d) Obtaining sand gravel in river bed not allowed to be performed in water stream. Entering cars into water stream is prohibited. Arranging protecting barriers between excavation place and water stream.</p> <p>e) 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>f) Haul materials in off peak traffic hours;</p> <p>g) Place speed regulating, diverting, and warning signs for traffic as appropriate.</p>  |
|  | Protection of trees along the roads   | <p>a) Trees along the road must be protected from cutting or unintentional damage;</p> <p>b) Cutting lower branches can be performed selectively utilizing appropriate method in order to reduce mechanical damage caused by civil works.</p> <p>c) Special fences arrangement around trees to avoid mechanical damage if required.</p> <p>d) In case of tree damage, cut or wither contractor has to ensure planting new appropriate size seedling with ratio 1:3 based on coordination with MDF.</p>   |
| <b>H Traffic and Pedestrian Safety</b> | Direct or indirect hazards to public traffic and pedestrians by construction activities | <p>(a) In compliance with national regulations the contractor will insure 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"> <li>▪ Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards contractor will pay attention that road signs, lighting, barriers, and traffic regulation signs are clean and visible. Contractor is obliged to install, replace cover or take off road signs in compliance with work progress.</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> </ul> |

|  |   |   |
|--|---|---|
|  |   | <ul style="list-style-type: none"> <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> <li>▪ Maintaining existing width of sidewalks and pedestrian access during civil works. Warning barriers arrangement along each fissure or obstacle, pedestrian path protection from mud and construction waste.</li> <li>▪ Contractor/vendor should minimize transportation of heavy loads, construction equipment, materials and soil on highways and take appropriate measures in order to avoid truck suspension on highways before entering construction site.</li> <li>▪ Contractor has to take measures in order to minimize mud on roads caused by earth works.</li> <li>▪ Contractor has to take all measures in order to minimize or eliminate problems caused by road rehabilitation works towards population living on adjacent territory.</li> <li>▪</li> </ul> |
|  | Territory cleaning after civil works finalization | Contractor has to clean all working places during and after finalization of rehabilitation works. Collection and disposal of excess ground, materials, temporary storages, fences, filing and leveling of pole pits.  |

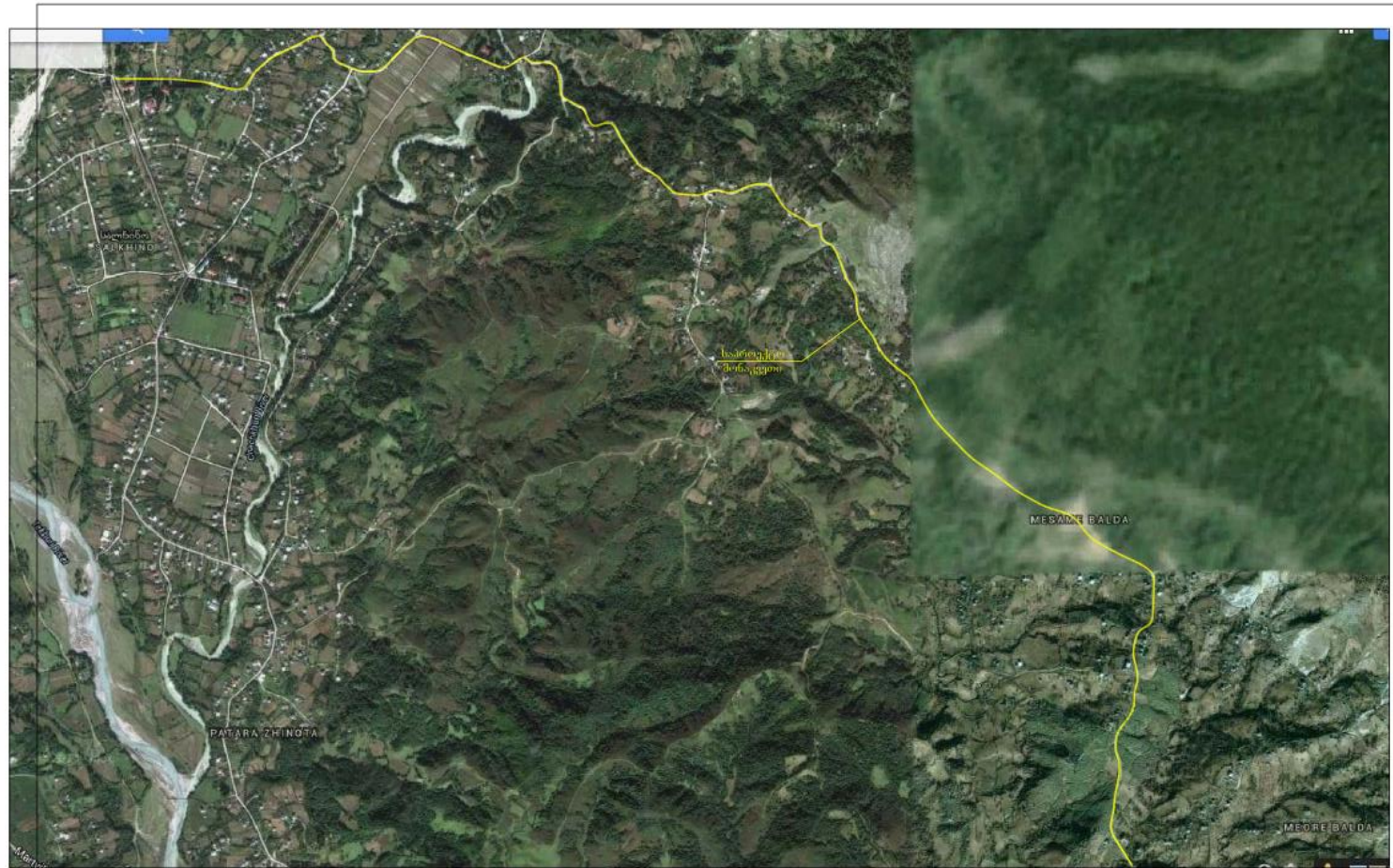
## PART D: MONITORING PLAN

| Activity   | What<br>(Is the parameter to be monitored?)   | Where<br>(Is the parameter to be monitored?) | How<br>(Is the parameter to be monitored?) | When<br>(Define the frequency / or continuous?)      | Why<br>(Is the parameter being monitored?)   | Who<br>(Is responsible for monitoring?)      |
|--|---|--|--|--|--|--|
| CONSTRUCTION PHASE   |   |  |  |  |  |  |
| 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<br><br>Movement of construction machinery | Technical condition of vehicles and machinery;<br><br>Confinement and protection of truck loads with lining;<br><br>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;<br><br>Limit nuisance to local communities from noise and vibration;<br><br>Minimize traffic disruption. | MDF, Construction supervisor, Traffic Police |

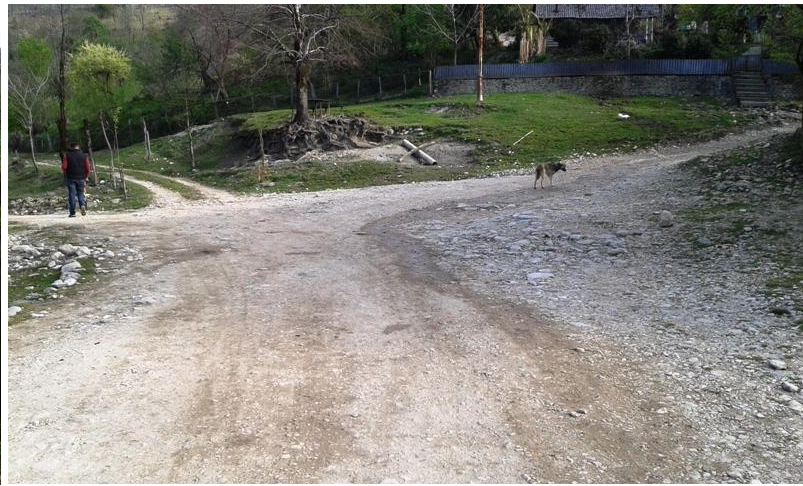
|  |  |  |   |  |  |                              |
|--|--|--|---|--|--|------------------------------|
| Sourcing of inert material                             | <p>Purchase of material from the existing suppliers if feasible;</p> <p>Obtaining of extraction license by the works contract and strict compliance 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> | Borrowing areas                                      | <p>Inspection of documents</p> <p>Inspection of works</p> | In the course of material extraction                 | <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> | MDF, Construction supervisor |
| Generation of construction waste                       | <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;</p> <p>Waste disposal site</p> | Inspection  | Periodically during construction and upon complaints | Prevent pollution of the construction site and nearby area with solid waste  | MDF, Construction supervisor |
| Traffic disruption and limitation of pedestrian access | <p>Installation of traffic limitation/diversion signage;</p> <p>Storage of construction materials and temporary placement of construction</p>  | At and around the construction site                  | Inspection  | In the course of construction works                  | Prevent traffic accidents; Limit nuisance to local residents   | MDF, Construction supervisor |

|   |   |                                 |            |   |  |                              |
|---|---|---------------------------------|------------|---|--|------------------------------|
|   | waste in a way preventing congestion of access roads  |                                 |            |   |  |                              |
| Workers' health and safety                                | Provision of uniforms and safety gear to workers;<br><br>Informing of workers and personnel on the personal safety rules and instructions for operating machinery/equipment, and strict compliance with these rules/instructions              | Construction site               | Inspection | Unannounced inspections in the course of work | Limit occurrence of on-the-job accidents and emergencies | MDF, Construction supervisor |
| OPERATION PHASE   |   |                                 |            |   |  |                              |
| Maintenance of rehabilitated road                         | Maintenance of relevant speed limiting bumps and road signage for traffic safety;<br><br>Demarcation of the sections of streets under repair;<br><br>Disposal of asphalt and or other waste from the repair works to the designated landfill. | Rehabilitated sections of roads | Inspection | During maintenance works                      | Prevent road accidents and disruption of traffic         | Martvili municipality        |
| Construction site cleaning after civil works finalization | Excess ground, materials, waste, storages, fences are collected and disposed. Pits are filled and leveled.  | Construction site               | Inspection | Inspection after works finalization           | Avoiding territory pollution                             | MDF construction supervisor  |

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











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

### **Minutes**

#### **Public Consultations on Environmental Management Plan**

#### **Rehabilitation of the Villages Salkhino-Letsave-Balda Road**

March 5, 2015

On March 5, 2015 in the Martvili Municipality Gamgeoba building public consultations were held on natural and social environmental management plan prepared for the Sub-Project of “Rehabilitation of the Villages Salkhino-Letsave-Balda Road”.

Those present at the meeting:

Representatives of Martvili Municipality Sakrebulo: Kurdghelia Mzia, Shota Kekelia, Ramaz Khurtsilava, Alexandre Burchulaia; Representatives of Martvili Municipality Gamgeoba: Giorgi Gorozia (Gamgebeli), Gogita Jijelava, Maka Beraia, Gocha Khurtsilava, Jano Tsulaia (Representative of Gamgebeli in village Gachedila); Representatives of village Balda: Gogita Tsulaia, Dima Tsulaia, Temur Tsulaia, Gela Tsulaia, Zaza Tsulaia, Koba Tsulaia, Anatoli Tsikolaia, Mamisi Tsulaia; Representatives of village Salkhino: Gogi Basilaia, Leri Basilaia, Nugzar Basilaia, Boris Basilaia, Giorgi Tsaava, Arkad Tsaava, Zurab Basilaia, Giga Basilaia; Representatives of the Municipal Development Fund of Georgia: Ana Rukhadze and Nino Patarashvili—Environmental Safety Specialists.

The meeting was opened by Giorgi Gorozia, who informed the public of the meeting purposes and briefly discussed the road rehabilitation project.

Ana Rukhadze updated the public on the sub-projects ongoing and planned under Regional and Municipal Development Project II. Afterwards, A. Rukhadze informed the audience of activities planned under Villages Salkhino-Letsave-Balda road rehabilitation project and discussed environmental impacts expected as a result the SP activities and measures to be undertaken by the contractor for mitigation or prevention of anticipated adverse impacts of the SP, which are specified in EMP, like inert material disposal only in the officially allocated place, and construction waste disposal at the nearest municipal landfill, as well as noise suppression and air and water pollution preventive measures. At the end of the presentation she informed the participants of the contact persons to be communicated by the population in case of existence of any complaints concerning environmental or social issues.

After the presentation, the audience posed the following questions:

| <i>Questions and remarks</i>  | <i>Answers and comments</i>  |
|---|--|
| <i>Will the local population be employed?</i>   | Work-force will be employed by the civil works contractor. According to the WB requirements, in case of similar qualification, local labor-force will be advantaged.   |
| <i>What is the expected duration of SP works?</i>   | Project implementation should be completed by August, 2015.  |
| <i>Does the SP envisage bridge rehabilitation?</i>  | Bridges over the rivers Apkhazura and Tsachkhura are in a good state and the SP does not envisage their rehabilitation works. Only road pavement rehabilitation is envisaged.  |
| <i>Who will allot an area for waste disposal? Authorized Representative of the Village or Gamgebeli? Is it required to cover disposed inert materials with earth?</i> | Inert waste (excavated earth, sediments) should be disposed in the preliminarily agreed - in writing - (with Municipality Gamgeoba) area, provided that the disposed waste is covered up with earth, in order to prevent disposal of other types of wastes in the same area. |
| <i>Does the SP envisage arrangement of connections and driveways?</i>   | The SP envisages arrangement of connections and driveways.   |
| <i>Is arrangement of speed barriers envisaged in the residential settlements?</i>   | Since due to the narrowness of the road, the SP does not provide for arrangement of sidewalks, speed barriers and road signs should be installed for safeguarding pedestrians.   |

Minutes prepared by Ana Rukhadze, MDF Environmental Safety Specialist.

March 5, 2015.

## List of Participants


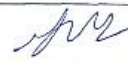


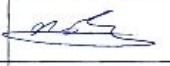
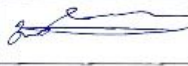


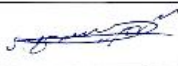
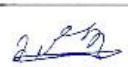
რეგიონული და მუნიციპალური განვითარების მეორე პროექტი  
სოფლების საღებინო-ლეკვე-ბაღდის გზის რეაბილიტაცია მარტვილის მუნიციპალიტეტში  
გარემოზე ზემოქმედების მართვის გეგმის საჯარო განხილვა

5 მარტი, 2015 წელი

შეხვედრაზე დამსწრეთა რეგისტრაციის ფურცელი

|    | სახელი, გვარი   | ორგანიზაცია                        | საკონტაქტო ინფორმაცია | ხელმოწერა |
|----|-----------------|------------------------------------|-----------------------|-----------|
| 1. | ახიფაძე მზია    | საქეპრო                            | 599 0306 95           | მზია -    |
| 2. | ჭიჭინაძე გიორგი | ბაგო მ                             | 598-36-37-05          | ბაგო      |
| 3. | მაცა პეტრე      | გამგეობა                           | 577.95-92-08          | მ. მაცა   |
| 4. | მოსხილიაძე      | გამგეობა                           | 599 0306 73           | მოსხი     |
| 5. | მოსხილიაძე      | საქეპრო                            | 599 03 06 91          | მოსხი     |
| 6. | ჭანო მუსილი     | გამგეობა<br>ნაგებობა<br>სოფ. პეტრე | 599 0306 43           | ჭანო      |



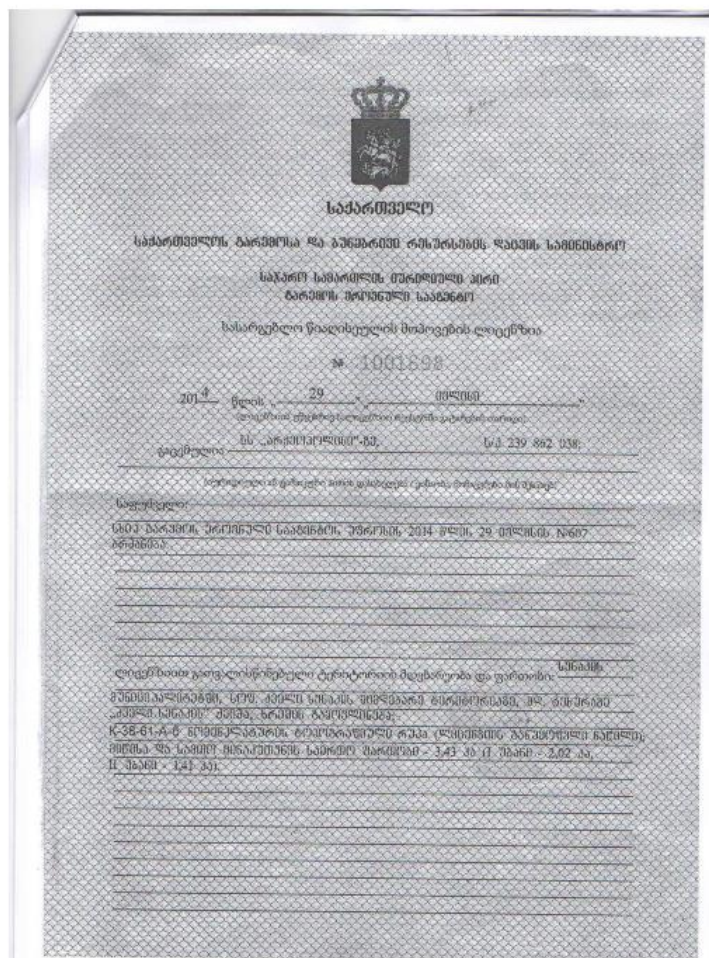
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|-----|-----------------------|-----------------------|--------------|---|
| 7.  | დამპყველვე            | დამპყველვე            | 577-95-48-25 |  |
| 8.  | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 595-51-69-08 |  |
| 9.  | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 598-42-50-70 |  |
| 10. | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 599-39-18-38 |  |
| 11. | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 577-52-69-29 |  |
| 12. | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 593-52-92-92 |  |
| 13. | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 595-96-25-25 |  |
| 14. | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 599-07-52-76 |  |
| 15. | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 593-27-15-34 |  |
| 16. | საგარეო ურთიერთობების | საგარეო ურთიერთობების | 555-53-67-09 |  |

|     |                 |      |              |         |
|-----|-----------------|------|--------------|---------|
| 17. | ଜମିନ ଡିମାନ୍ଦ    | ଲେବନ | 599763192    | ଓ.ଜି.ସି |
| 18. | ପୂର୍ବ ଡିମାନ୍ଦ   | ଲେବନ | 599159730    | ଓ.ଜି.ସି |
| 19. | ଓ.ଜି.ସି         | ଲେବନ | —            | ଓ.ଜି.ସି |
| 20. | ଓ.ଜି.ସି ଡିମାନ୍ଦ | ଲେବନ |              | ଓ.ଜି.ସି |
| 21. | ଓ.ଜି.ସି ଡିମାନ୍ଦ | ଲେବନ | 555-52-42-16 | ଓ.ଜି.ସି |
| 22. | ଓ.ଜି.ସି ଡିମାନ୍ଦ | ଲେବନ | 595777802    | ଓ.ଜି.ସି |
| 23. | ଓ.ଜି.ସି ଡିମାନ୍ଦ | ଲେବନ | 555-10-87-89 | ଓ.ଜି.ସି |
| 24. | ଓ.ଜି.ସି ଡିମାନ୍ଦ | ଲେବନ | 593129339    | ଓ.ଜି.ସି |
| 25. | ଓ.ଜି.ସି ଡିମାନ୍ଦ | ଲେବନ | 551-27-16-16 | ଓ.ଜି.ସି |

## Photos of the Public Consultation



### Attachment 3: License for the extraction of natural construction material



Georgia  
Ministry of Environment and  
Natural Resources Protection of Georgia  
LEPL National Environmental Agency

Mineral extraction license  
N1001698

2014 July 29

License Holder: JSC "Archeopolisi" ID 239 862 038

Legal basis: N609 Order of July 29, 2014 of LEPL National Environmental Agency Head

The licensed area: Senaki Municipality, nearby village Dzveli  
Senaki, sand-gravel quarry of river Tekhura

The license is valid for five years until from 29.07.2014 until  
30.07.2019



მისამართი: \_\_\_\_\_

გვ. 1-დან 1-მდე. მისამართი: \_\_\_\_\_

პირადი მონაცემები:

გვ. 1-დან 1-მდე. მისამართი: \_\_\_\_\_

დამკვეთის მონაცემები: \_\_\_\_\_

სხვა დამკვეთის მონაცემები:

დამკვეთის მონაცემები:



დამკვეთის მისამართი: \_\_\_\_\_

#### Attachment 4: Agreement on waste disposal

|  |   |
|--|---|
| <div data-bbox="327 313 508 386"><p>საქართველო<br/>საპატენტო საზოგადოება<br/>„არქეოპოლისი“</p></div> <div data-bbox="550 297 705 423"></div> <div data-bbox="753 313 926 386"><p>GEORGIA<br/>JOINT-STOCK COMPANY<br/>„AROEOPOLISI“</p></div> <div data-bbox="268 461 539 496"><p>სენაკის მუნიციპალიტეტი, სოფ. ძველი სენაკი<br/>ს/კოდი: 239862038</p></div> <div data-bbox="579 461 684 508"><p>Tel: 595-11-86-46<br/>599-11-88-34<br/>599-63-97-97</p></div> <div data-bbox="745 461 951 492"><p>Regional Senaki Village Dzveli Senaki<br/>Ident. Kode: 239862038</p></div> <div data-bbox="268 529 323 550"><p>№73/01</p></div> <div data-bbox="829 526 945 548"><p>27 მაისი 2016 წ.</p></div> <div data-bbox="636 565 909 617"><p>საზედამხედველო კომპანია „ენტისა“-ს<br/>უფროსს ბატონ ზესუს ზეზანილას</p></div> <div data-bbox="296 643 407 665"><p>ბატონო ზესუს,</p></div> <div data-bbox="268 686 951 771"><p>თქვენი 2016 წლის 23 მაისის წერილის (EPT/MDF/TL/726) პასუხად წარმოგიდგენთ თქვენს მიერ მოთხოვნილ სალხინო-ლეცავე-ბალდას სარეაბილიტაციო მონაკვეთზე გადაზიდული ასფალტო-ბეტონის და ცემენტო-ბეტონის ანგარიშს.</p></div> <div data-bbox="268 773 951 855"><p>აგრეთვე გაცნობებთ, რომ სარეაბილიტაციო მონაკვეთზე სამუშაოების მიმდინარეობის პროცესში არსებული სამშენებლო ნარჩენები ჩვენს მიერ გადაზიდულ იქნა საწარმოს ტერიტორიაზე სოფ. ძველი სენაკში, ხოლო რაც შეეხება სახიფათო ნარჩენებს სარეაბილიტაციო მონაკვეთზე არ ყოფილა.</p></div> <div data-bbox="296 860 449 885"><p>წერილს თან ერთვის:</p></div> <div data-bbox="333 888 749 969"><ul style="list-style-type: none"><li>• მსხვილმარცვლოვანი ა/ბეტონის ანგარიში - 12 ფურცელი;</li><li>• წვრილმარცვლოვანი ა/ბეტონის ანგარიში - 13 ფურცელი;</li><li>• ცემენტო-ბეტონის ანგარიში - 1 ფურცელი.</li></ul></div> <div data-bbox="296 1003 411 1026"><p>პატივისცემით,</p></div> <div data-bbox="455 1060 554 1083"><p>დირექტორი:</p></div> <div data-bbox="600 1023 655 1122"></div> <div data-bbox="688 1060 770 1081"><p>ნ. ჩვამანია</p></div> | <p>JSC “Archeopolisi”</p> <p>To the head of the Supervising company “Eptisa Servicios de Ingenieria S.L. Spain”</p> <p>Mr. Jesus,</p> <p>Concerning your letter of May 23, 2016 (# EPT/MDF/TL/726), we would like to provide you report relate to transportation on the rehabilitating part of Salkhino-Letsave-Balda.</p> <p>Furthermore, we would like to inform you that all the construction waste was placed on the territory of the Enterprise ad there was no hazardous waste revealed during the works.</p> <p>Attachments:</p> <p>Sincerely,<br/>Director<br/>N. Chvamania</p> |
|--|---|