



Sidewalks Rehabilitation in Ozurgeti (Ozurgeti Municipality) Sub-Project

Environmental and Social Screening and Environmental Management Plan

WORLD BANK FINANCED

SECOND REGIONAL AND MUNICIPAL INFRASTRUCTURE DEVELOPMENT PROJECT

Tbilisi, Georgia

November 2016

Environmental Screening

The sub-project (SP) envisages rehabilitation of sidewalks of four different streets in Ozurgeti town, Ozurgeti municipality, Guria Region. The sidewalks to be rehabilitated are of the following streets: Aghmashenebeli St., Kostava St., Nikoladze St., and Guria St. Besides, the SP includes arrangement of new drainage channels and covering with metal grilles. The SP sites are located in West East Georgia, 200 meters (656 feet) altitude above the sea level. The site can be reached by Tbilisi-Senaki-Leselidze highway and distance from Tbilisi is approximately 317 km. The details of the rehabilitation works are given as follows:

1. Aghmashenebeli Street Sidewalks

Aghmashenebeli Street is one of the central streets of the Ozurgeti town. The length of the street is 518 meters with the existing sidewalks of 2 meters width in the both sides. Parts of the sidewalks are covered with damaged asphalt and need to be rehabilitated. Drainage channels are also in urgent need of improvement. The channels are not covered with metal grilles.

The SP envisages following rehabilitation works for the sidewalks of Aghmashenebeli Street:

- Dismantling existing concrete drainage channels;
- Dismantling existing damaged asphalt cover from the sidewalks;
- Arranging existing well heads on the pavements;
- Applying sand and gravel surface in the bottom of the drainage channels, installing wooden planks and concrete reinforcement;
- Arranging concrete drainage channels with metal grilles;
- Arranging sidewalk edges (30 x 15 cm) at the planting strips on both sides of the street
- Arranging concrete tiles on the sidewalks (20 x 20 x 5);
- Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town.

2. Kostava Street Sidewalk

Kostava Street is one of the largest streets in Ozurgeti town with 293 meters long. The existing sidewalks of the streets are two meters width. Part of the sidewalks are covered with asphalt but need to be removed and renewed as the cover is damaged. Some parts of the sidewalks are ground. There are drainage channels in a poor condition as well. The channels are not covered with anything, so the project includes placing metal grilles after the rehabilitation. There are communication cables along the street that have to be covered with plastic and

placed in special trenches. The well heads are existing but need to be replaced with new ones.

The SP envisages following rehabilitation works for the sidewalks of Kostava Street:

- Dismantling existing concrete drainage channels;
- Dismantling existing damaged asphalt cover from the sidewalks;
- Arranging trenches for communication cables;
- Applying sand surface in the bottom of the trenches;
- Arranging existing well heads on the pavements;
- Arranging concrete drainage channels with metal grilles;
- Arranging sidewalk edges (30 x 15 cm) at the planting strips on both sides of the street;
- Applying asphalt-concrete cover (3 cm height) on the sidewalks;
- Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town.

3. Nikoladze Street Sidewalk

Nikoladze Streets is 334 meters long with 1.5 meters wide sidewalks. Currently part of the sidewalks are covered with asphalt and part of them are grass. There are communication cables along the street, so the project includes arrangement of special trenches.

The SP envisages following rehabilitation works for the sidewalks of Nikoladze Street:

- Dismantling existing damaged asphalt cover from the sidewalks;
- Arranging trenches for communication cables;
- Applying sand surface in the bottom of the trenches;
- Replacing the existing well heads with the new ones;
- Arranging 30 cm height edges around the eight trees on the sidewalks;
- Arranging sidewalk edges (30 cm) at the planting strips on both sides of the street;
- Applying asphalt-concrete cover (3 cm height) on the sidewalks;
- Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town.

4. Guria Street Sidewalk

Guria Streets is located nearby Nikoladze Street. The length of the street 293 meters and the existing sidewalks are of 2 meters width. Currently there are concrete tiles applied on the sidewalks that need to be rehabilitated. Shops and local supermarkets are located at Guria Street; therefore, step stair with ramps adaptable for the people with disabilities is needed.

The SP envisages following rehabilitation works for the sidewalks of Guria Street:

- Replacing existing metal pillars;
- Dismantling existing tiles from the sidewalks;
- Arranging one step stair with the ramps adaptable for the people with disabilities;
- Arranging concrete tiles on the sidewalks (20 x 20 x 5);
- Arranging monolithic borders around the existing 5 trees;
- Applying sand and gravel surface (10 cm height) in the bottom of the drainage channels;
- Arranging concrete drainage channels with metal grilles;
- Arranging retaining wall;
- Arranging existing well heads on the pavements;
- Applying asphalt-concrete cover (3 cm height) on the sidewalks;
- Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town.

(A) IMPACT IDENTIFICATION

<p>Has sub-project a tangible impact on the environment?</p>	<p>The SP will have a modest negative environmental impact.</p> <p>The main impact will be related to the construction phase, which includes works for dismantling asphalt cover, arrangement of the ground sand crushed stones for the sidewalks.</p>
<p>What are the significant beneficial and adverse environmental effects of sub-project?</p>	<p>The expected negative environmental impact will have short-term character and will be typical for small-scale construction works in modified landscape: noise, dust, vibration, and emissions from the operation of construction machinery; generation of construction waste. The later impacts are related to the maintenance of the sidewalks.</p> <p>The SP is located in the area with modified environment. Therefore the impact is transitory and insignificant (noise, emissions, construction waste, temporary disturbance of traffic and access, etc.). In operation phase, proper management of generated solid waste should be ensured to reduce impact on the environment.</p>

<p>May the sub-project have any significant impact on the local communities and other affected people?</p>	<p>The SP is expected to have a long-term positive social impact through developing the infrastructure for Ozurgeti Municipality, thus it will contribute to economic recovery as well. In addition, rehabilitation of the above-mentioned sidewalks in town Ozurgeti will have significant benefits: Improvement of the local infrastructure; increased income of population during the implementation (employment of workers), and after the rehabilitation.</p> <p>During construction works and in the process of the above-mentioned sidewalks operation, limited and temporary positive impact related to job opportunities for construction workers is expected.</p> <p>Negative impact is short term and limited to the construction site. They are related to the possible disturbance described above.</p> <p>The sidewalks of town Ozurgeti are the assets of the Ozurgeti Municipality. The land plots are registered as municipal property. Accordingly, the SP does not require land involuntary resettlement.</p>
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(B) MITIGATION MEASURES

<p>Were there any alternatives to the sub-project design considered?</p>	<p>Due to the fact that the SP envisages rehabilitation and reconstruction of the existing sidewalks in Ozurgeti, no important alternatives have been considered.</p>
<p>What types of mitigation measures are proposed?</p>	<p>The expected negative impacts of the construction phase can be easily mitigated through proper management of construction activities. The contractor will be responsible for disposal at the permitted location, use the quarry materials from the licensed quarries only or obtain materials only from licensed providers, prevent water and soil from pollution (fuel spills due to equipment failure, concrete spills etc.), avoid disturbance of population (noise, dust, emissions) through proper work/supplies scheduling, good maintenance of the construction machinery.</p>

	<p>According to the letter N03-3190, 09.12.2016 of Ozurgeti Municipality Mayor, construction waste produced as a result of civil works will be placed at the landfill in village Meria, located in 14 km distance from the town Ozurgeti.</p>
<p>What lessons from the previous similar projects have been incorporated into the sub-project design?</p>	<p>MDF has wide experience of implementation of medium and large-scale buildings, roads and streets rehabilitation financed by various donor organizations. Based on lessons, learned from previous similar projects, design envisages not only rehabilitation and reconstruction of the sidewalks but also arrangement of sidewalk edges, communication trenches, concrete tiles, etc.</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 Ozurgeti Municipality in consultation with the Sakrebulo and as a response to the current situation.</p> <p>Population of the town were consulted by Ozurgeti municipality administration and their interest has been taken into consideration in preparation process of the SP.</p> <p>Draft EMP prepared for the SP will be made available for Ozurgeti community and will be discussed in a consultation meeting prior to tending of works.</p>

(C) RANKING

The SP 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 infrastructure (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 Resettlement Policy Framework			

Site of the sidewalks are registered as owned by Ozurgeti Municipality.

Environmental Management Plan

PART A: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL & ADMINISTRATIVE	
Country	Georgia
Project title	SECOND REGIONAL AND MUNICIPAL INFRASTRUCTURE DEVELOPMENT PROJECT
Sub-Project title	Sidewalks Rehabilitation in Ozurgeti (Ozurgeti Municipality) Sub-Project (SP)
Scope of site-specific activity	<p>The sub-project (SP) envisages rehabilitation of sidewalks of four different streets in Ozurgeti town, Ozurgeti municipality, Guria Region. The sidewalks to be rehabilitated are of the following streets: Aghmashenebeli St., Kostava St., Nikoladze St., and Guria St. Besides, the SP includes arrangement of new drainage channels and covering with metal grilles. The SP sites are located in West East Georgia, 200 meters (656 feet) altitude above the sea level. The site can be reached by Tbilisi-Senaki-Leselidze highway and distance from Tbilisi is approximately 317 km. The details of the rehabilitation works are given as follows:</p> <p>1. Aghmashenebeli Street Sidewalks</p> <p>Aghmashenebli Street is one of the central streets of the Ozurgeti town. The length of the street is 518 meters with the existing sidewalks of 2 meters width in the both sides. Parts of the sidewalks are covered with damaged asphalt and need to be rehabilitated. Drainage channels are also in urgent need of improvement. The channels are not covered with metal grilles.</p> <p>The SP envisages following rehabilitation works for the sidewalks of Aghmashenebeli Street:</p> <ul style="list-style-type: none"> - Dismantling existing concrete drainage channels; - Dismantling existing damaged asphalt cover from the sidewalks; - Arranging existing well heads on the pavements; - Applying sand and gravel surface in the bottom of the drainage channels, installing wooden planks and concrete reinforcement; - Arranging concrete drainage channels with metal grilles; - Arranging sidewalk edges (30 x 15 cm) at the planting strips on both sides of the street - Arranging concrete tiles on the sidewalks (20 x 20 x 5); - Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town. <p>2. Kostava Street Sidewalk</p> <p>Kostava Street is one of the largest streets in Ozurgeti town with 293 meters</p>

long. The existing sidewalks of the streets are two meters width. Part of the sidewalks are covered with asphalt but need to be removed and renewed as the cover is damaged. Some parts of the sidewalks are ground. There are drainage channels in a poor condition as well. The channels are not covered with anything, so the project includes placing metal grilles after the rehabilitation. There are communication cables along the street that have to be covered with plastic and placed in special trenches. The well heads are existing but need to be replaced with new ones.

The SP envisages following rehabilitation works for the sidewalks of Kostava Street:

- Dismantling existing concrete drainage channels;
- Dismantling existing damaged asphalt cover from the sidewalks;
- Arranging trenches for communication cables;
- Applying sand surface in the bottom of the trenches;
- Arranging existing well heads on the pavements;
- Arranging concrete drainage channels with metal grilles;
- Arranging sidewalk edges (30 x 15 cm) at the planting strips on both sides of the street;
- Applying asphalt-concrete cover (3 cm height) on the sidewalks;
- Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town.

3. Nikoladze Street Sidewalk

Nikoladze Streets is 334 meters long with 1.5 meters wide sidewalks. Currently part of the sidewalks are covered with asphalt and part of them are grass. There are communication cables along the street, so the project includes arrangement of special trenches.

The SP envisages following rehabilitation works for the sidewalks of Nikoladze Street:

- Dismantling existing damaged asphalt cover from the sidewalks;
- Arranging trenches for communication cables;
- Applying sand surface in the bottom of the trenches;
- Replacing the existing well heads with the new ones;
- Arranging 30 cm height edges around the eight trees on the sidewalks;
- Arranging sidewalk edges (30 cm) at the planting strips on both sides of the street;
- Applying asphalt-concrete cover (3 cm height) on the sidewalks;
- Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town.

	<p>4. Guria Street Sidewalk</p> <p>Guria Streets is located nearby Nikoladze Street. The length of the street 293 meters and the existing sidewalks are of 2 meters width. Currently there are concrete tiles applied on the sidewalks that need to be rehabilitated. Shops and local supermarkets are located at Guria Street; therefore, step stair with ramps adaptable for the people with disabilities is needed.</p> <p>The SP envisages following rehabilitation works for the sidewalks of Guria Street:</p> <ul style="list-style-type: none"> - Replacing existing metal pillars; - Dismantling existing tiles from the sidewalks; - Arranging one step stair with the ramps adaptable for the people with disabilities; - Arranging concrete tiles on the sidewalks (20 x 20 x 5); - Arranging monolithic borders around the existing 5 trees; - Applying sand and gravel surface (10 cm height) in the bottom of the drainage channels; - Arranging concrete drainage channels with metal grilles; - Arranging retaining wall; - Arranging existing well heads on the pavements; - Applying asphalt-concrete cover (3 cm height) on the sidewalks; - Final disposal of the construction waste at village Meria landfill, located in 14 km distance from the town. 		
Institutional arrangements (WB)	<p>Task Team Leader:</p> <p>Xiaolan Wang</p>		<p>Safeguards Specialist:</p> <p>Darejan Kapanadze, Environmental Safeguards Specialist;</p> <p>Sophia Georgieva, Social Safeguards Specialist.</p>
Implementation arrangements (Borrower)	<p>Implementing entity: Municipal Development Fund of Georgia</p>	<p>Works supervisor: Construction supervision consultancy company "EPTISA"</p>	<p>Works contractor: (tbd)</p>
SITE DESCRIPTION			
Name of institution whose premises are to be rehabilitated	Ozurgeti Municipality City Hall		

Address and site location of institution whose premises are to be rehabilitated	N1 Kostava Street, Ozurgeti, Georgia Tel: +0496 (226 10 10) E-mail: info@oz.gov.ge Web-site: www.Ozurgeti.org.ge
Who owns the land? Who uses the land (formal/informal)?	The sidewalks are the assets of Ozurgeti Municipality. The land plots are registered as municipal property.
Description of physical and natural environment around the site	Ozurgeti is the capital of the western Georgian province of Guria. It was formerly known as Macharadze or Makharadze (named in honor of Filipp Makaradze). It is a regional center of tea and hazelnut processing. Ozurgeti is 200 meters (656 feet) above sea level. Most of the town is located between the Bzhuzhi and Natanebi rivers. The city is bounded by hills in the north and south.
Locations and distance for material sourcing, especially aggregates, water, stones?	Water will be available at the construction site from the municipal water supply system. Distance to the nearest licensed borrow pit is approximately in 7-8 km radius. The construction waste will be placed at village Meria landfill, located in 14 km distance from the SP site, which is managed by the LLC "Solid Waste Company of Georgia".
LEGISLATION	
National & local legislation & permits that apply to project activity	The SP has been classified as low risk Category B according to the WB policies and the ESMF. The SP proposal has been officially presented to the MDF by local municipality for financing and represents the need and priority of the Municipal Government according to common demands. Georgian legislation does not require any type of environmental review, approval, or permitting for the SP. Though according to the national regulatory system: <ul style="list-style-type: none"> (i) construction materials must be obtained from licensed providers; (ii) if contractor wishes to open quarries or extract material (rather than purchasing these materials from other providers), then the contractor must obtain licenses for extraction; (iii) if contractor wishes to operate own concrete plant (rather than purchasing these materials from other providers), then the contractor must prepare technical report on inventory of atmospheric air pollution stationary sources and agree with the Ministry of Environment and Natural Resources Protection (MoENRP);

	<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 in written;</p> <p>(v) Construction waste must be disposed on the official local landfills with written agreement from the relevant responsible bodies (local /municipal governing bodies and/or Solid Waste Management Company of Georgia);</p> <p>(vi) If over 200 tons of non-hazardous waste or over 1000 tons of inert materials or over then 120 kg of hazardous waste is generated annually (calculation apply to a calendar year) as a result of contractor’s general activities, they shall prepare and cause the Ministry of Environment and Natural Resources of Georgia to approve the Inventory of Waste and Waste Management Plan for the Company, appoint an environmental manager, and submit an information on his/her identity to the Ministry of Environment and Natural Resources Protection of Georgia in accordance with requirements of the Waste Code of Georgia.</p> <p>Copies of extraction licenses (if applicable), permits for operating concrete plant (if applicable) and waste disposal agreements will be attached to this EMP once the contractor is selected and mobilized to the works site.</p> <p>GOST and SNIP norms must be adhered.</p>
PUBLIC CONSULTATION	
When / where the public consultation process will take /took place	Present draft EMP will be disclosed and discussed with beneficiary community prior to tendering of works.
ATTACHMENTS	
<p>Attachment 1: Site location, photos and schematic pictures.</p> <p>Attachment 2: Agreement for waste disposal from Ozurgeti Municipality;</p> <p>Attachment 3: Minutes of the public consultation meeting (to be provided);</p> <p>Others as required.</p>	

PART B: SAFEGUARDS INFORMATION

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

¹ 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.

² 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
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) Demolition debris shall be kept in controlled area and sprayed with water mist to reduce debris dust; (b) During pneumatic drilling/wall destruction dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site (c) The surrounding environment (sidewalks, roads) shall be kept free of debris to minimize dust (d) There will be no open burning of construction / waste material at the site (e) There will be no excessive idling of construction vehicles at sites (f) Truck loads should be confinement and protected with lining.
	Noise	<ul style="list-style-type: none"> (a) Limit activities to daylight working hours; (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 (c) The machinery should move only along the preliminarily agreed route; (d) The maximum allowed speed should be restricted; (e) Proper technical control and maintenance practices of the machinery should be applied; (f) No-load operations of the vehicles and heavy machinery is not allowed. Proper mufflers will be used on machinery.
	Water Quality	<ul style="list-style-type: none"> (a) Contractor will be required to organize and cover material storage areas and to isolate wash down areas from watercourses by selecting areas that are not free draining into any watercourse. The material storage sites should be protected from washing out during heavy rain falls and flooding through covering by impermeable materials. (b) Contractor will plan all excavations, topsoil and subsoil storage so as to reduce to a minimum any runoff. (c) 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 nearby streams and rivers. (d) 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.

		<p>(e) 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.</p> <p>(f) Wet cement and/or concrete will not be allowed to enter any watercourse, pond or ditch.</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) Construction waste will be collected and disposed properly on the agreed location.</p> <p>(d) The records of waste disposal will be maintained as proof for proper management as designed.</p> <p>(e) Burning of waste on the SP site is forbidden.</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) 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) Obtain wood materials only from licensed suppliers.</p> <p>e) Contractor will be required to submit to the MDF copies of the licenses, permits, written agreements, certificates, etc. to prove that all materials are obtained from licensed providers.</p> <p>f) Haul materials in of peak traffic hours;</p> <p>g) Place speed regulating, diverting, and warning signs for traffic as appropriate.</p>
H Traffic and Pedestrian Safety	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"> ▪ Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards ▪ 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. ▪ Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement ▪ Active traffic management by trained and visible staff at the site, if required for safe and convenient passage for the public. ▪ Ensuring safe and continuous access to office facilities, shops and residences during renovation activities, if the buildings stay open for the public.

PART D: MONITORING PLAN

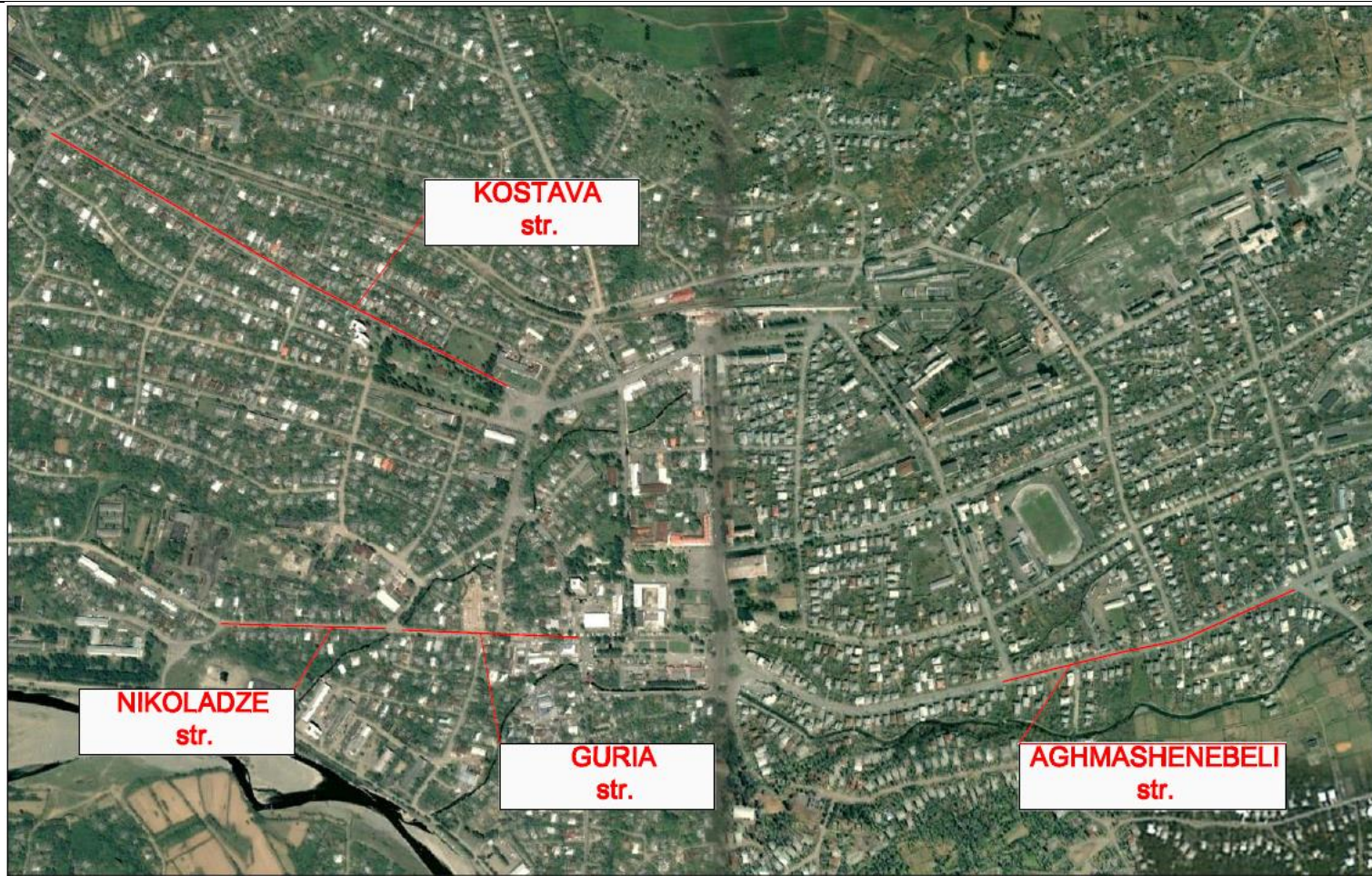
Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
CONSTRUCTION PHASE						
Supply with construction 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; 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
Sourcing of inert material	Purchase of material from the existing suppliers if feasible; Obtaining of extraction license by the works contract and strict compliance with the license conditions; Terracing of the borrow area, backfilling to the exploited areas of the borrow site, and landscape harmonization;	Borrowing areas	Inspection of documents Inspection of works	In the course of material extraction	Limiting erosion of slopes and degradation of ecosystems and landscapes; Limiting erosion of riverbanks, water pollution with suspended particles and disruption of aquatic life.	MDF, Construction supervisor

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?)
	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.					
Generation of construction waste	Allocating construction waste on the landfill of village Meria, in 14 km distance from Ozurgeti town.	Landfill	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	Installation of traffic limitation/diversion signage; Storage of construction materials and temporary placement of construction waste in a way preventing congestion of access roads	At and around the construction site	Inspection	In the course of construction works	Prevent traffic accidents; Limit nuisance to local residents	MDF, Construction supervisor
Workers' health and safety	Provision of uniforms and safety gear to workers; 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

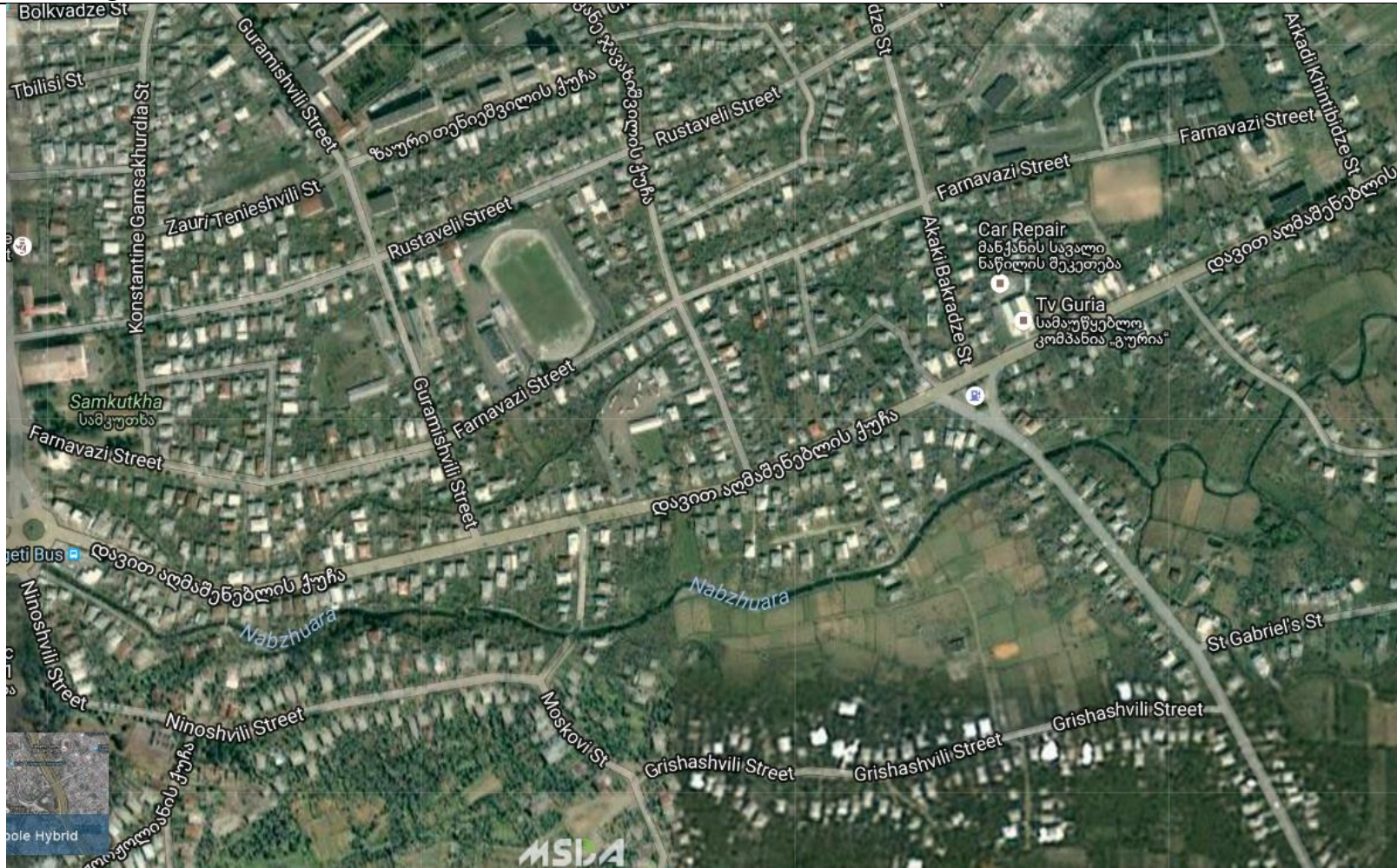
Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
OPERATION PHASE						
Disruption of traffic and pedestrian access during maintenance works	Scheduling of maintenance works in at less busy hours and proper signage of maintenance area	Sites of the restored buildings and bridges	Inspection	Throughout operation of the sites	Minimize nuisance to local residents	Ozurgeti Municipality

Annex 1: Site location, Ortho-photo and pictures of the SP sites

Ozurgeti town, Aghmashenebeli Street, Nikoladze Street, Kostava Street, Guria Street.



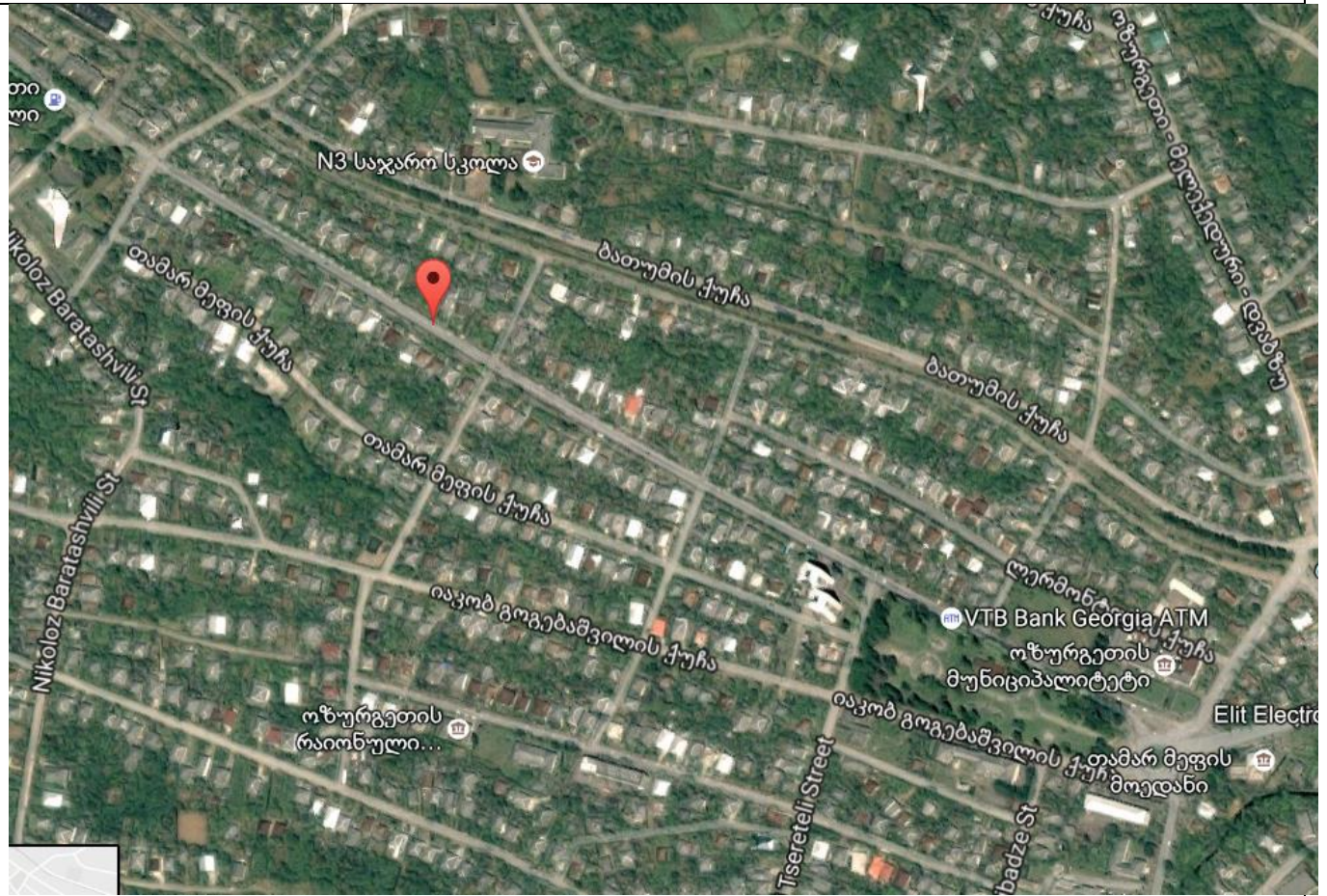
1. Aghmashenebeli Street



Photos of Aghmashenebeli Street



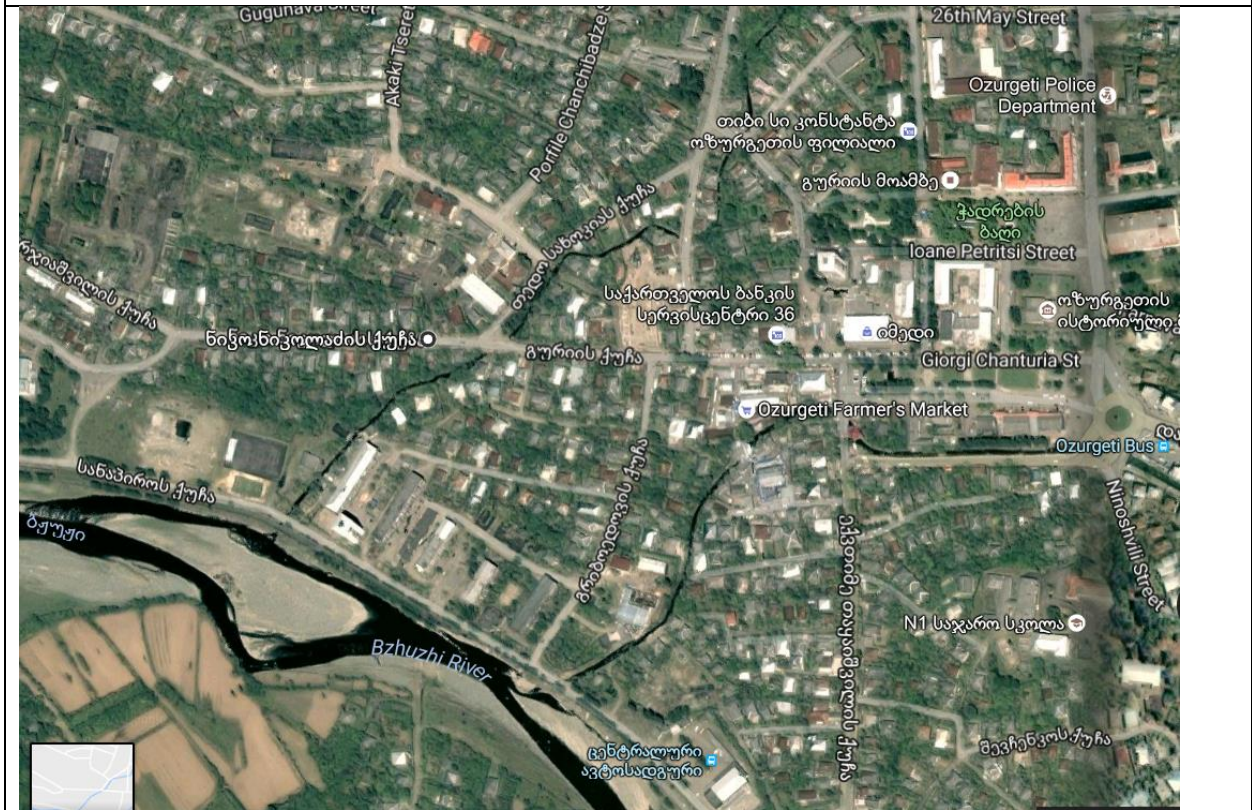
2. Kostava Street



Photos of Kostava Street



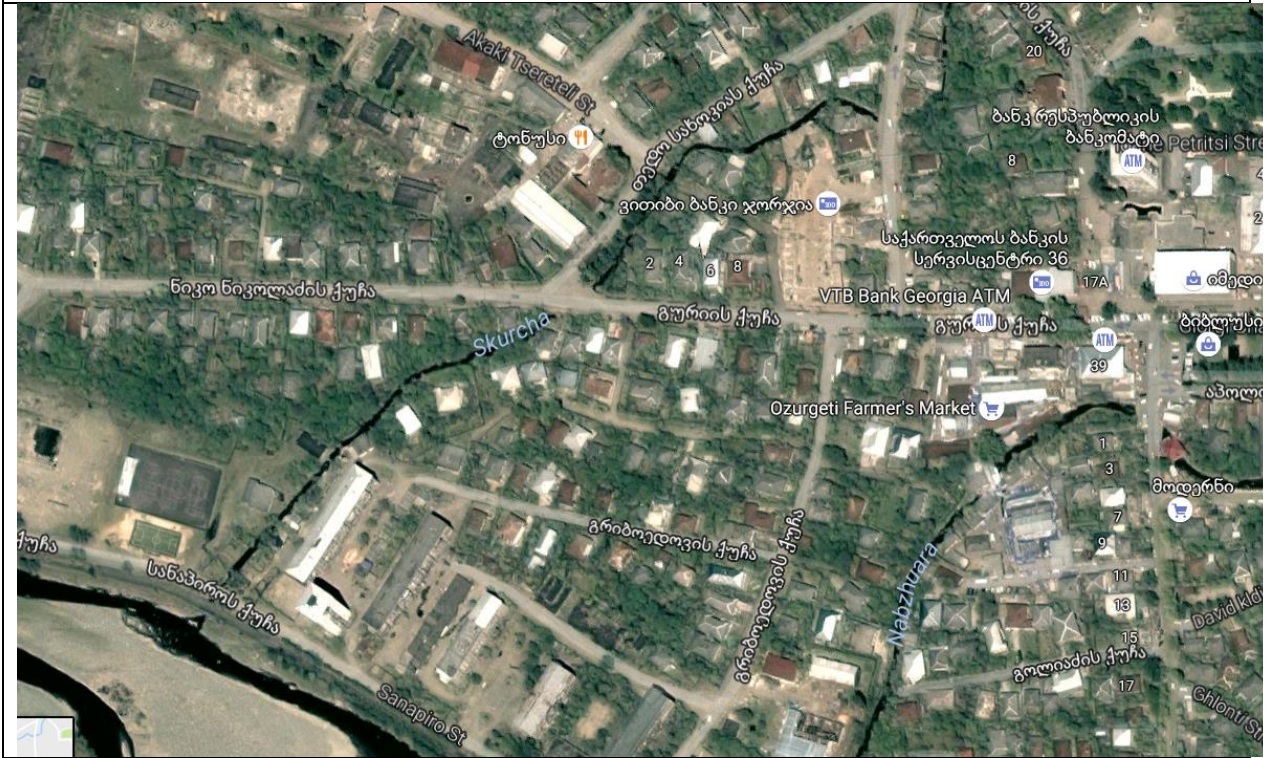
3. Nikoladze Street



Photos of Nikoladze Street



4. Guria Street



Photos of Guria Street



Annex 2 - Agreement for waste disposal from Ozurgeti Municipality

<div data-bbox="499 396 571 488"></div> <div data-bbox="241 496 835 574"><p>საქართველო ქალაქ ოზურგეთის მუნიციპალიტეტის მერი</p></div> <div data-bbox="157 581 940 651"><p>3500, საქართველო, ქოზურგეთი, კოსტავას ქ. №1 ტელ: (0496) 27-47-40 №1 Kostava str. Ozurgeti, 3500, Georgia. Tel: (0496) 27-47-40 N 03-3190 3190-03-2-201612091129 09/12/2016 </p></div> <div data-bbox="323 755 903 820"><p>საქართველოს მუნიციპალური განვითარების ფონდის დირექტორს ბატონ გალაქტიონ ბუაძეს</p></div> <div data-bbox="191 878 363 902"><p>ბატონ გალაქტიონ,</p></div> <div data-bbox="191 919 905 1105"><p>ქალაქ ოზურგეთის ტროტუარების რეაბილიტაციის პროექტთან დაკავშირებით გაცნობებთ, რომ აღმაშენებლის, ნიკო ნიკოლაძის, კოსტავასა და გურიის ქუჩის ტროტუარების რეაბილიტაციისას ტროტუარების ზოლში წარმოქმნილი სამშენებლო ნარჩენების გატანა განხორციელდეს ოზურგეთის მუნიციპალიტეტის სოფ. მერიის ნაგავსაყრელზე (ს/კ 26.05.20.017), აღნიშნული ტერიტორია (შესაკუთრე: შპს "საქართველოს მყარი ნარჩენების მართვის კომპანია" (ს/კ 404942470)) ქალაქ ოზურგეთიდან დაშორებულია 14 კილომეტრით.</p></div> <div data-bbox="245 1166 386 1188"><p>პატივისცემით,</p></div> <div data-bbox="191 1247 323 1269"><p>ბეგლარ სიორიძე</p></div> <div data-bbox="336 1209 514 1372"></div> <div data-bbox="191 1321 237 1344"><p>მერი</p></div>	<div data-bbox="1415 482 1898 508"><p>Head of the Municipal Development Fund of Georgia</p></div> <div data-bbox="1680 524 1898 550"><p>Mr. Galaktion Buadze</p></div> <div data-bbox="1041 654 1180 680"><p>Mr. Galaktion,</p></div> <div data-bbox="1041 698 1898 839"><p>Concerning the Subproject – “Sidewalks Rehabilitation in Ozurgeti (Ozurgeti Municipality)”, we would like to inform you that the construction waste derived from the rehabilitation works of the sidewalks on Aghmashenebeli, Niko Nikoladze, Kostava and Guria Streets, will be placed at the landfill (ID 26.05.20.017) in village Meria, Ozurgeti municipality in 14 km distance from the town. The landfill is owned by the LLC “Solid Waste Company of Georgia” (ID 404942470).</p></div> <div data-bbox="1041 941 1140 967"><p>Sincerely,</p></div> <div data-bbox="1041 984 1115 1011"><p>Mayor</p></div> <div data-bbox="1041 1027 1184 1053"><p>Beglar Sioridze</p></div>
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