



**Zugdidi Botanical Garden (Zugdidi Municipality) Rehabilitation  
Sub-Project**

**Environmental and Social Screening and  
Environmental Management Plan**

**WORLD BANK FINANCED  
SECOND REGIONAL AND MUNICIPAL INFRASTRUCTURE DEVELOPMENT PROJECT**

**September 2017**

## **Environmental Screening**

Zugdidi Botanical garden is a decorative garden located next to the palace of former Noblemen of Samegrelo - Dadiani family. The garden with the area of 26 ha is located in the central part of Zugdidi City and is bordered by city streets from four sides, which makes the garden easily accessible.

The garden was initiated in 1840 by Davit Dadiani's (Head of Samegrelo region) spouse Ekaterina Chavchavadze-Dadiani. In 1970, the garden was transferred to the Central Botanical Garden of the Academy of Sciences of Georgia. Nowadays the garden area is registered as the property of Zugdidi Municipality according to the Ordinance N1794 of 07.09.2016 of the Government of Georgia.

There were no rehabilitation or maintenance works held in the botanical garden for a long while causing significant degradation of its floristic collection. Some wild shrubs and grass weeds are gradually overtaking the area.

Furthermore, buildings dating from various periods of time that are located within the botanical garden are in poor condition and much need for reconstruction/rehabilitation. Electricity, water supply and sewage systems are out of order. Besides, some architectural shapes and details such as artificial pond, decorative pools, open water channels, small boats, stone chairs need to be rehabilitated.

The rehabilitation design is prepared by the Non-commercial Legal Entity - Georgian Museums Association and LEPL National Agency for Cultural Heritage Preservation of Georgia. By the Decree N264 of the Government of Georgia of June 11, 2015, the Dadiani Gardens and Palace complex were granted a category of cultural heritage of national importance.

Present sub-project (SP) is for the reconstruction and rehabilitation of the buildings located in the botanical garden area. Dilapidated and historically non-valuable buildings will be dismantled. Water and electricity supply as well as sewage systems, outdoor lightning, irrigation system will be arranged. Works for botanical garden landscaping and rehabilitation of tracks, fences and gates will be undertaken.

The SP includes the following activities:

### **1. Rehabilitation of the Administrative building:**

- Dismantling of the concrete tiles and rearrangement with the similar materials;
- Dismantling destroyed columns and rearrangement with the similar materials;

- Dismantling of the roof, wood constructions and galvanized sheet metal cover and rearranging;
- Dismantling wall surfaces inside and outside of the building;
- Arranging aluminum doors and windows;
- Arranging ceramic tiles on the first floor of the building;
- Arranging laminate parquet on the second floor of the building.

On the first floor of the building, exhibition and conference halls will be arranged, as well as exposition storage room, guard room and toilets. The second floor will be for botanical garden's administration office, scientific study, herbarium exhibition space, training room for students, toilets.

**2. Gardener's house** was built around 30-ies and represents a square-shaped one-store building. Originally, the building had a sole room but later it was separated into several smaller rooms. The rehabilitation includes:

- Dismantling of the concrete tiles and rearrangement with the similar materials;
- Concrete works for external stairs and covering with ceramic tiles;
- Arranging aluminum doors and windows;
- Arranging ceramic tiles on the floor of the building;
- Arranging power supply, water supply and sewage systems for the building;
- Arranging glass walls around the greens house.

**Greenhouse** is a newly constructed building in the contours of the gardener's house with the dimensions 30.0 X 7.6. The building represents metallic frames supporting glass panels.

**3. Horse Stable**, which is located in the territory of the botanical garden as well, was built in the 19<sup>th</sup> century and belonged to Dadiani family. The building consists of three parts. Rehabilitation process includes the following works:

- Removing and disposing excess earth accumulated inside the building;
- Mechanical cleaning walls from growing vegetation;
- Applying gravel cover and concrete tiles on the ground;
- Recovering the walls which are built with cobblestones and Georgian brick.

**4. Cross-shaped Palace.** The two-storied palace, so called cross-shaped palace, was first described by the French orientalist and Kartvelologist Marie Brosset. Currently, there are only ruins left of the first floor, which are made of cobblestone. However, Marie Brosset made the sketches of the second floor. According the sketches, the first floor of the

building was built with stone, while second floor was constructed in wood. Currently, there are only ruins left of the first floor, which are made of cobblestone. The floor and some parts of the walls are made of Georgian brick. Construction works aim to recover the initial image of the building. The SP includes conservation of the fireplace, floor and the hall partitions.

5. **Auxiliary building for Nursery** with the dimensions 23.9 X 7.6 meters will be place in the north part of the botanical garden. The building with serve the garden staff to store equipment used for garden maintenance. The building has modern architectural look, metal foundation and concrete-made walls. The SP covers surface revetments of the building.
6. **Public Toilets** will be place in three different locations in the botanical garden. Unit 1 will be nearby the Administrative building. Unit 2 will be placed in the north part of the botanical garden, Unit 3 will be placed in the south-east part of the garden.
7. **Cashier, Security booth** are intended to be for guards and for ticket sellers. Two buildings will be placed in the garden, one at the east gate and other at the west gate of the botanical garden.
8. **Garden landscaping** includes arrangement of artificial ponds, decorative tanks, open water channels, park benches and litter bins, four gates at east, west, north and south entrances of the botanical garden.
9. **Buildings to be demolished** are the ones that are currently useless, like: ruins of the former office of the Botanical Garden Director, and two buildings of non-functional toilets. Because the buildings do not have historical value and at the same time are not compatible to the visual side of the garden, they need to be demolished.

## (A) IMPACT IDENTIFICATION

<p>Has sub-project a tangible impact on the environment?</p>	<p>The SP has a modest negative environmental impact.</p> <p>The main impact will be during the construction phase, which includes works for rehabilitation of the existing old building. 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 the operational phase, proper management of generated household waste and waste water should be ensured to reduce impact on the environment.</p> <p>The SP is expected to have tangible long-term positive impact on the social and natural environment.</p>
<p>What are the significant beneficial and adverse environmental effects of sub-project?</p>	<p>The SP is expected to have a long-term positive social impact through improving living conditions of the local population.</p> <p>The expected negative environmental impact is likely to be short term and typical for medium 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 generation of waste and waste water from maintenance of the community center.</p> <p>The buildings are connected to the municipal water supply and sewage network, so after the SP implementation, water usage or sewage discharge will not be increased.</p>
<p>May the sub-project have any significant impact on the local communities and other affected people?</p>	<p>The long-term social impact will be beneficial as local community will be provided with new recreational area, which at the same time has cultural heritage value.</p> <p>Limited and temporary positive impact related to Job opportunities for construction workers during construction and limited during operation 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 land plot with the cadastral code 43.31.49.143 is registered in the Public Register, as the property of Zugdidi Municipality under the Ordinance N1794 of 07.09.2016 of the Government of Georgia. (See attached file – Cadastral information).</p>

## (B) MITIGATION MEASURES

<p>Were there any alternatives to the sub-project design considered?</p>	<p>Given that the SP envisages rehabilitation and expansion of the existing old buildings in garden and arrange a landscaping, no 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. The contractor will be responsible for the waste disposal at the permitted location, use the quarry materials from the licensed quarries only and obtain wood 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, etc.</p> <p>Construction works will be conducted with manual labor or using small machinery. Delivery of construction materials and removal of construction waste from the territory will be carried out using small scale transport up to 10 tones. Movement of construction vehicles will be limited to the existing trails only. Visual signs will be put at the trails. Pedestrians will not be allowed to walk at the tracks where the vehicles move.</p> <p>Specific locations will be set for temporarily placement of construction materials and construction waste.</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 buildings rehabilitation and construction projects financed by various donor organizations. Based on lessons learned from previous similar projects, design envisages not only rehabilitation and extension of the building but also landscaping of the botanical garden.</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 non-commercial Legal Entity - Georgian Museums Association and LEPL National Agency for Cultural Heritage Preservation of Georgia together with Zugdidi Municipality in consultation with the Sakrebulo and as a response to the current situation.</p> <p>By the Decree N264 of the Government of Georgia of June 11, 2015, the Dadiani Gardens and Palace complex were granted a category of cultural heritage of national importance.</p>

	SP-specific EMP will be made available for Zugdidi population and will be discussed in a consultation meeting prior to the commencement of works.
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**(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 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>			



## Environmental Management Plan

### PART A: GENERAL PROJECT AND SITE INFORMATION

<b>INSTITUTIONAL &amp; ADMINISTRATIVE</b>	
Country	Georgia
Project title	Second Regional and Municipal Infrastructure Development Project
Sub-Project title	Zugdidi Botanical Garden (Zugdidi Municipality) Rehabilitation Sub-Project
Scope of site-specific activity	<p>Present sub-project (SP) is for the reconstruction and rehabilitation of the buildings located in the botanical garden area. Dilapidated and historically non-valuable buildings will be dismantled. Water and electricity supply as well as sewage systems, outdoor lightning, irrigation system will be arranged. Works for botanical garden landscaping and rehabilitation of tracks, fences and gates will be undertaken.</p> <p>The SP includes the following specific activities:</p> <p><b>Rehabilitation of the Administrative building:</b></p> <ul style="list-style-type: none"> <li>- Dismantling of the concrete tiles and rearrangement with the similar materials;</li> <li>- Dismantling destroyed columns and rearrangement with the similar materials;</li> <li>- Dismantling of the roof, wood constructions and galvanized sheet metal cover and rearranging;</li> <li>- Dismantling wall surfaces inside and outside of the building;</li> <li>- Arranging aluminum doors and windows;</li> <li>- Arranging ceramic tiles on the first floor of the building;</li> <li>- Arranging laminate parquet on the second floor of the building.</li> </ul> <p>On the first floor of the building, exhibition and conference halls will be arranged, as well as exposition storage room, guard room and toilets. The second floor will be for botanical garden's administration office, scientific study, herbarium exhibition space, training room for students, toilets.</p> <p><b>Gardener's house</b> was built around 30-ies and represents a square-shaped one-store building. Originally, the building had</p>

a sole room but later it was separated into several smaller rooms. The rehabilitation includes:

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	<p>architectural look, metal foundation and concrete-made walls. The SP covers surface revetments of the building.</p> <p><b>Public Toilets</b> will be place in three different locations in the botanical garden. Unit 1 will be nearby the Administrative building. Unit 2 will be placed in the north part of the botanical garden, Unit 3 will be placed in the south-east part of the garden.</p> <p><b>Cashier, Security booth</b> are intended to be for guards and for ticket sellers. Two buildings will be placed in the garden, one at the east gate and other at the west gate of the botanical garden.</p> <p><b>Garden landscaping</b> includes arrangement of artificial ponds, decorative tanks, open water channels, park benches and litter bins, four gates at east, west, north and south entrances of the botanical garden.</p> <p><b>Buildings to be demolished</b> are the ones that are currently useless, like: ruins of the former office of the Botanical Garden Director, and two buildings of non-functional toilets. Because the buildings do not have historical value and at the same time are not compatible to the visual side of the garden, they need to be demolished.</p>		
Institutional arrangements (WB)	Task Team Leader: Xiaolan Wang		Safeguards Specialists: Darejan Kapanadze, Environment Rebecca Lacroix, Social
Implementation arrangements (Borrower)	Implementing entity: Municipal Development Fund of Georgia	Works supervisor: Consulting company Eptisa Servicios de Ingenieria S.L. Spain	Works contractor: (tbd)
<b>SITE DESCRIPTION</b>			
Name of institution whose premises are to be rehabilitated	Zugdidi Municipality		

Address and site location of institution whose premises are to be rehabilitated	45 Zviad Gamsakhurdia Street, 2100 Zugdidi. Tel: +995 591 44 54 05 E-mail: <a href="mailto:zugdidissakrebulo2014@gmail.com">zugdidissakrebulo2014@gmail.com</a>
Who owns the land? Who uses the land (formal/informal)?	The land plot with the cadastral code 43.31.49.143 is registered in the Public Register, as the property of Zugdidi Municipality under the according to the Ordinance N1794 of 07.09.2016 of the Government of Georgia. (See attached file – Cadastral information).
Description of physical and natural environment around the site	The Zugdidi municipality holds the Odishi plain, Odishi plateau and mountainous mountain range. Area - 668 km <sup>2</sup> , including agricultural lands 340 km <sup>2</sup> . There are frequent networks of rivers in the district, there are many wetlands and small lakes. In addition to the river Enguri, Zugdidi municipality is crossing the rivers: Jumi, Chkhuushi, Chanistskali, Gray and others.
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 7 km.
<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 WB policies and the ESMF.</p> <p>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.</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 (including wood materials, sand/gravel and schist) must be obtained from licensed providers,</li> <li>(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,</li> <li>(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 source and agree with Ministry of</li> </ul>

	<p>Environment and Natural Resources Protection (MoENRP);</p> <p>(iv) Permanent placement of the cut ground, 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 nearest municipal landfill in accordance with written agreement with the Solid Waste Management Company of Georgia Ltd.</p> <p>(vi) Constructor must gain permit from the LEPL National Agency for Cultural Heritage Preservation of Georgia GOST and SNIP norms must be adhered.</p>
<b>GRIEVNACE REDRESS MECHANISM</b>	
<p>Appropriate grievance redress mechanism was established to solve grievances of Project-Affected People, as required. Zugdidi Municipality has assigned a responsible person – Badri Meskhi, Head of the Economic and Infrastructural Service of Zugdidi Municipality (Tel: 595 900 444, <a href="mailto:badri.meskhi@gmail.com">mailto:badri.meskhi@gmail.com</a>) to receive, review and react to the APs grievances. The contact person from the MDF is Nutsa Gumberidze (Tel: +995 598 88 20 19, <a href="mailto:feedback@mdf.org.ge">feedback@mdf.org.ge</a>)</p> <p>If the grievance will not be unsolved at the local level, it will be lodged to the MDF. As for grievance monitoring MDF registers all received compliances, comments and how the compliance was addressed. During public consultations, the local population will be informed about the grievance redress issues and received information about contact persons.</p>	
<b>PUBLIC CONSULTATION</b>	
<p>When / where the public consultation process will take /took place</p>	<p>Population of the city was consulted by Zugdidi municipality administration and their interest has been taken into consideration in preparation process of the SP.</p> <p>EMP drafted for the SP will be made available for the local community and will be discussed in a consultation meeting prior to tender procedures.</p>
<b>ATTACHMENTS</b>	
<p>Attachment 1: Site plan, photos and a sketch of the new building.  Attachment 2: Documents on the public consultation  Attachment 3: <a href="#">Agreement on waste disposal (to be provided)</a>  Others as required.</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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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
0. 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) Limit activities to daylight working hours;</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 is 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 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.</li> <li>(b) Contractor will plan all excavations, topsoil and subsoil storage so as to reduce to a minimum any runoff.</li> <li>(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.</li> <li>(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 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>

		<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>
	Earthworks	<p>a) Topsoil should be stripped before starting of earthworks;</p> <p>b) Proper topsoil storage practice should be applied to ensure to maintain physico-chemical and biological activity of the soil; Temporary protective silt fencing should be erected to avoid erosion (wash down);</p> <p>c) Stored topsoil should be used for reinstatement and landscaping.</p> <p>d) Topsoil from the sites, which will not be reinstated to the initial conditions will be distributed carefully on the surrounding area.</p> <p>e) Topsoil will be reinstated separately from subsoil, with care taken to avoid mixing of the materials. The topsoil reinstatement will be sufficient to restore the fertile depth to the initial conditions as judged by the topsoil strip during visual observation and comparison of the reinstated site and adjacent land. When replacing the topsoil Contractor will program the works such that the areas furthest away from the stockpiles are reinstated first with reinstatement getting progressively closer to the stockpiles, thus reducing the number of vehicle movements over the reinstated topsoil. The reinstated topsoil will then be harrowed, where practical, to protect the stability and promote vegetative growth.</p> <p>f) In case chance find is encountered in the course of earth works, the contractor must immediately stop any physical activity on site and informs the MDF. The MDF promptly notifies the Ministry of Culture and Monument Protection, which takes over responsibility for the following course of action. Works may resume only upon receipt of written permission from the Ministry of Culture and Monument Protection.</p>



C. Individual wastewater treatment system	Water Quality	<p>a) The approach to handling sanitary wastes and wastewater from building site (installation of the septic tank) must be approved by the local authorities.</p> <p>b) Monitoring of new wastewater systems (before/after) will be carried out.</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"> <li>▪ Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards</li> <li>▪ Construction site should be fenced and properly secured to prevent unauthorized access (especially of children);</li> <li>▪ Appropriate lighting and well defined safety signs should be provided;</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>

**PART D: MONITORING PLAN**

<b>Activity</b>	<b>What</b> (Is the parameter to be monitored?)	<b>Where</b> (Is the parameter to be monitored?)	<b>How</b> (Is the parameter to be monitored?)	<b>When</b> (Define the frequency / or continuous?)	<b>Why</b> (Is the parameter being monitored?)	<b>Who</b> (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>Earthworks</p>	<p>Temporary storage of excavated material in the pre-defined and agreed upon locations;</p> <p>Backfilling of the excavated material and/or its disposal to the formally designated locations;</p> <p>In case of chance finds immediate suspension of works, notification of the Ministry of Culture and Monument Protection, and resumption of works exclusively upon formal consent of the Ministry.</p> <p>Topsoil is striped before starting of the earthworks;</p> <p>Proper topsoil storage practice is applied; Temporary protective silt fencing is erected;</p> <p>Striped topsoil is used for reinstatement and landscaping.</p>	<p>Construction site</p>	<p>Inspection</p>	<p>In the course of earth works</p>              <p>Construction period: starting from topsoil stripping and ending with reinstatement</p>	<p>Prevent pollution of the construction site and its surroundings with construction waste; Prevent damage and loss of physical cultural resources; Prevent topsoil losses.</p>	<p>MDF, Construction supervisor</p>
<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>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; Limiting erosion of river banks, water pollution</p>	<p>MDF, Construction supervisor</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>				with suspended particles and disruption of aquatic life.	
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>	Construction site; Waste disposal site	Inspection	Periodically during construction and upon complaints	Prevent pollution of the construction site and nearby area with solid waste	MDF, Construction supervisor
Workers' health and safety	<p>Provision of uniforms and safety gear to workers;</p> <p>Informing of workers and personnel on the personal safety rules and instructions for operating machinery/equipment, and strict compliance with these rules/instructions</p>	Construction site	Inspection	Unannounced inspections in the course of work	Limit occurrence of on-the-job accidents and emergencies	MDF, Construction supervisor
<b>OPERATION PHASE</b>						
Generation of waste from maintenance of rehabilitated building	Proper management of solid waste	Municipal area	Inspection	Throughout operation of the community center	Prevent pollution with solid waste	Zugdidi municipality

Generation of waste water from maintenance of rehabilitated building	Proper operation of the septic tank	Rehabilitated building; Water course near the rehabilitated community center	Inspection	Throughout operation of the community center	Prevent pollution with waste water	Zugdidi Municipality MoENRP
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# Attachment 1: Site location and pictures

## Cadastral Information



მის (ფართობი) საკადასტრო კოდი **N 43.31.49.143**

### ამონაწერი საჯარო რეესტრიდან

განცხადების რეგისტრაცია მომსახურების თარიღი  
**N 882016617732 - 13/09/2016 13:28:33** **14/09/2016 10:49:00**

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### საკუთრების განყოფილება

ზონა	სექტორი	კვარტალი	ნაკვეთი	ნაკვეთის საკუთრების ტიპი/საკუთრება
მედილი	ქ მედილი			ნაკვეთის დანიშნულება: არასასოფლო სამეურნეო
<b>43</b>	<b>31</b>	<b>49</b>	<b>143</b>	დამფუძვლები ფართობი: 259770.00 კვ.მ. ნაკვეთის წინა ნომერი: 43.34.03.349; შენიშვნა-ნაკვეთის ჩამონათვალი: N1 - განაშენიანების ფართი 480.06 კვ.მ., N2 - 327.32 კვ.მ.

მისამართი: ქალაქი შუტლიდი, გამზირი B, გამსახურდია, N 1

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### მესაკუთრის განყოფილება

განცხადების რეგისტრაცია : ნომერი 882016617732 , თარიღი 13/09/2016 13:28:33  
 უფლების რეგისტრაცია: თარიღი 14/09/2016

უფლების დამადასტურებელი დოკუმენტი:  
 \* განკარგულება N1794 , დამოწმების თარიღი: 07/09/2016 , საქართველოს შიდაგროსა

მესაკუთრები:  
 სსიპ თვითმმართველი ქალაქი ქალაქ შუტლიდის მუნიციპალიტეტი ID ნომერი: 220416976

მესაკუთრე:  
 სსიპ თვითმმართველი ქალაქი ქალაქ შუტლიდის მუნიციპალიტეტი

აღწერა:

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### იპოთეკა

სატელეფონო გირავნობა:  
 რეგისტრირებული არ არის

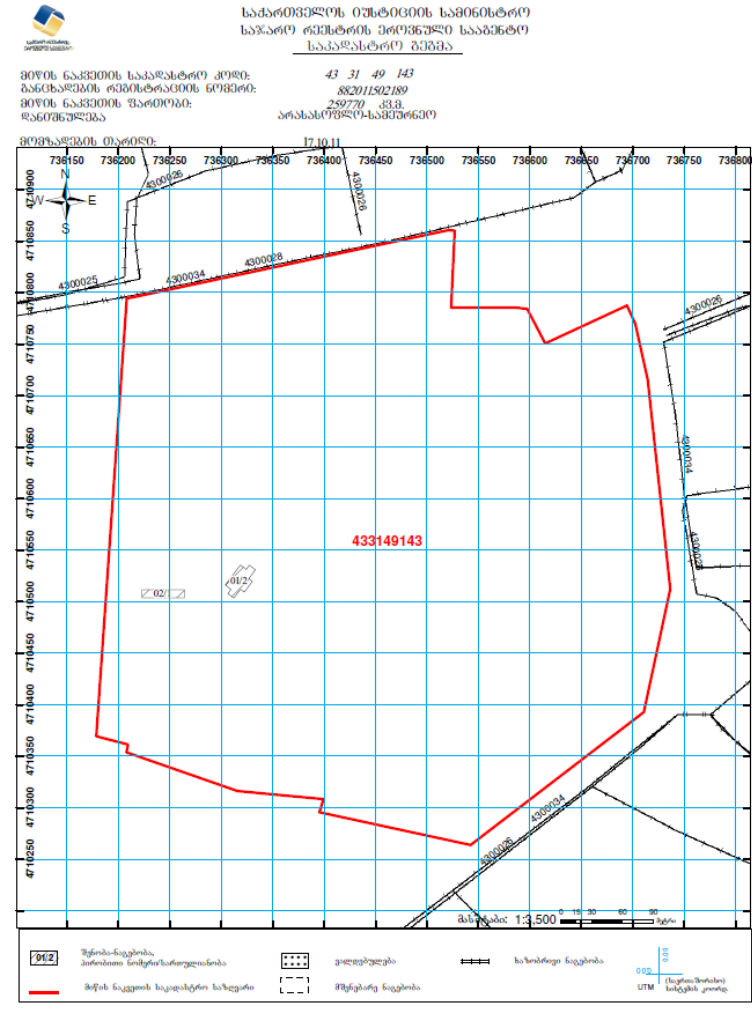
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### ვალებულები

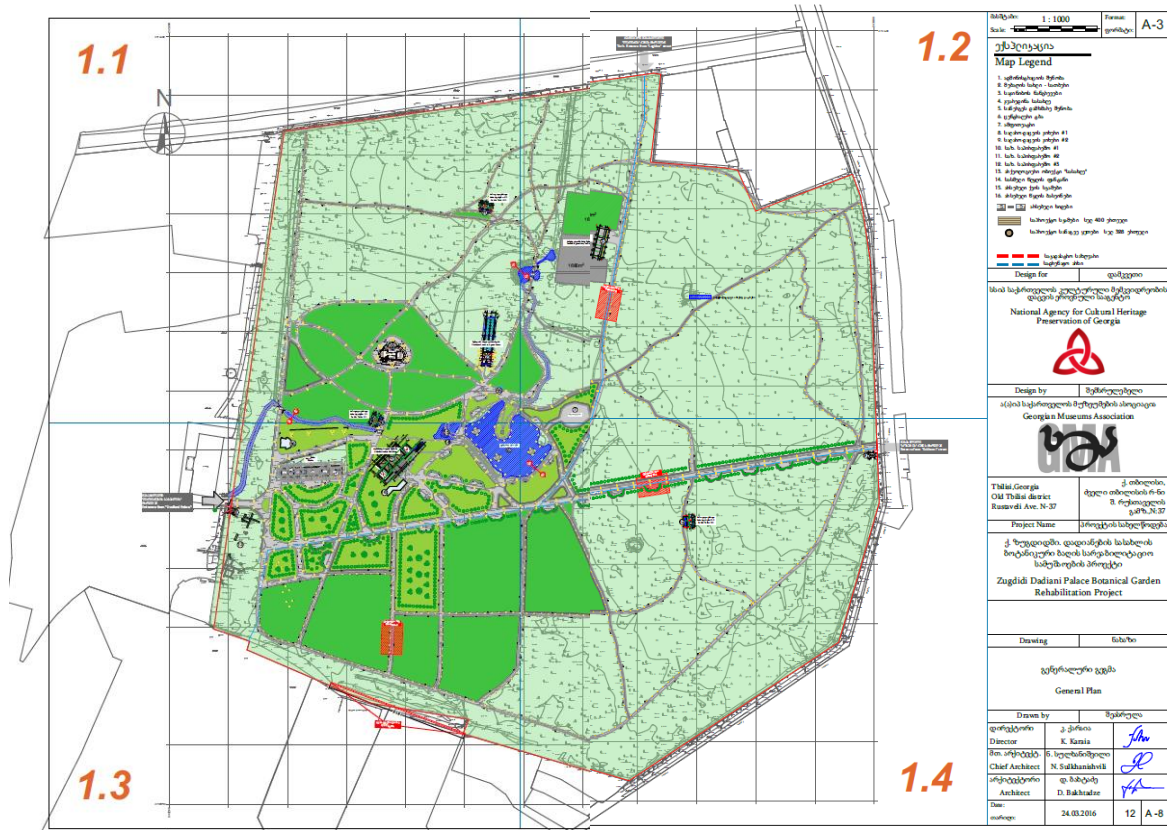
ყოველწლიური გადასახადი:  
 რეგისტრირებული არ არის

ზოგადი რეესტრი:  
 რეგისტრირებული არ არის

საჯარო რეესტრის ეროვნული სააგენტო. <http://public.reestr.gov.ge> გვერდი: 1(2)



# General Plan



Renders of Administrative Building

პიკეტაჟი  
Visualization





Renders of the Stable



ვიზუალიზაცია  
Visualization



Renders of Gardener's house

პროექტი  
Visualization



Gardening auxiliary building

პროექტის  
Visualization



Photo materials

Administrative Building

არსებული სინეამბის აგსანსვლი ფორმასალა  
The Current Situation Photos





Stable

ძეგლის ფოტოალბომი  
Interior Photo album



# Cross-shaped Palace



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# Gardener's House

არსებული სივრცის  
არსებული ფორმასა  
The situation in the photo material





**July 19, 2017**

Zugdidi Municipality, Georgia

**Minutes of Public Hearing**

**Second Regional and Municipal Development Project (RMIDPS)**

**Zugdidi Botanical Garden (Zugdidi Municipality) Rehabilitation  
Sub-Project**

**Environmental and Social Screening and  
Environmental Management Plan**

On July 19, 2017 at 12:00, a Public consultation meeting on Environmental and Social Management Plan of the Subproject “Zugdidi Botanical Garden (Zugdidi Municipality) Rehabilitation” was held in Zugdidi Municipality Governance (Gangeoba). The SP is being implemented under the Second Regional and Municipal Development Project (RMIDPS) supported by the World Bank.

The meeting aimed to inform local population regarding the works scheduled under the SP and anticipated negative/positive impacts on natural and social environment as well as ways and means for their prevention.

The Meeting was attended by:

Mayor of Zugdidi Municipality – Irakli Gogokhia and other representatives of Zugdidi City Hall: Badri Meskhi, Sandro Sordia, Besik Arakhamia, Grigol Jghamaia, Ekaterine Todua, Zamira Ghadua, Mamuka Logua, Giorgi Bulia, Paata Todua, Natia Zakaraia, Davit Jabua, IRkli Pipia, Koba Morgoshia, Gigla Sulamanidze, Nukri Esartia, Maia Ghubeladze, Salome Gugushvili.

The meeting was also attended by representative from different organizations and residents of Zugdidi city: Nineli Chitanava, Maia Kodua, Data Akubardia, Nugzar Gabelia, Tazo Patsatsia, Nia Kuparadze, Teona Shengelia, Nukri Esartia.

**Representatives from the Municipal Development Fund of Georgia:**

Ketevan Papashvili - Environmental Safeguards Specialist;

Nona Chichinadze - Social and Gender Specialist;

Irakli Tsurtsumia - Projects Appraisal Unit’s Specialist.

The Meeting was opened by Ms. Nona Chichinadze, who provided meeting participants information on Municipal Development Fund and objectives of the meeting.

Ms. Chichinadze presented Social Accountability issues, the goal of the presentation was to support efficient fulfillment of commitments of the local government, in particular civil involvement and accountability, which will assist the local self-government units in implementation of economically viable programs and build their capacity to perform public services in cost effective and efficient manner.

Ms. Chichinadze discussed importance of social accountability, aspects of social accountability activities: 1. Information dissemination/transparency of processes; 2. Public consultations; 3. Feedback from the citizens as well as importance of establishment of the Commission for Complaints and Proposals and creation of the database. Importance of the “Confidence Group” and the Hotline; The Citizen Charter was also reviewed along with the respective supporting Document.

Ms. Papashvili informed the meeting participants about the information regarding sub-projects planned within the Second Regional and Municipal Development Project (RMIDPS) and talked in details concerning works scheduled under sub-projects along with respective environmental and social risks. Ms. Papashvili reviewed also Environmental Management Plan elaborated for the sub-project. She familiarized meeting participants with the environmental requirements of the World Bank (WB) and reviewed the planned mitigation measures. Ms. Papashvili noted as well that pursuant to effective legislation of Georgia, works considered under above referenced sub-projects do not require either Environmental Impact Permit or other kind of agreement with the Ministry of Environment and Natural Resources Protection of Georgia, hence sub-projects will be executed in compliance with relevant Safeguards Policy of the WB and Operational Manual developed for the Regional Development Project.

Ms. Papashvili noted that the Environmental Impact Management Plan represents an integral part of the Contract concluded with the construction contractor and contractor is obliged to provide execution of mitigation measures stipulated by the Plan. Ms. Papashvili spoke also about environmental monitoring of sub-project and respective reporting procedures.

Ms. Papashvili provided contact persons’ information to participants, who can be reached by population in case of any claims related to environment and social issues.

After completion of the presentation, participants had opportunity to express their opinion and/or ask questions.

Questions / remarks	Answers and comments
Who will be supervising the rehabilitation works?	International consultancy company “Eptisa” that is operating in the west Georgia for the SRMIDP
Is the GRM related to the administrative proceedings or this is a different procedure?	Administrative proceedings are regulated by the national legislation of Georgia. GRM organized and run by MDF is intended to resolve issues emerging in regards to the projects implemented by MDF before they grow into conflicts. If GRM is unable to mitigate an issue in its early stage, then any involved party may file the case to the court for a formal legal proceeding.
Do you have any guidelines concerning the complaints?	My presentation was about the recommendations. The details are given in the Charter.
Are there any works planned for the vegetation cover?	For sure, except the rehabilitation and construction works, conservation of the vegetation cover is planned as well.
Was the inventory of the vegetative cover conducted?	Yes, it was conducted and the data are available.
The botanical garden has the status of cultural heritage and is any permit required before the construction works?	A permit is need from the Agency of the Cultural Heritage Preservation of Georgia. The process of gaining permit has already started.
When this project was developed, whether the comments of the population were taken into consideration?	The remarks were taken into consideration when the sub-project was under review and this process lasted for 2 years. Currently the sub-project has been finalized, agreed, approved and prior to commencement of tendering procedures, the EMP is being discussed publicly.
Will there be fences and gates?	The sub-project includes both – fencing and gates, from three different sides of the garden.
Will the entry be paid?	<p>The sub-project also envisages installation of cash boxes into the entrances. The local municipality will decide whether entering the garden will be free of charge. In the future, the plan is to charge visitors of the botanical garden an entrance fee, but this will not be implemented in the nearest future and will only be put in place after careful analysis and planning.</p> <p>According to Mayor, for the local entry will be free in the morning hours, as these people come here in the morning for exercise and it will be hard and unfair for them to pay every morning.</p>
Will the existing fence be dismantled?	The fence will not be dismantled, only rehabilitated and add some details.
Will the number of staff change after the rehabilitation of the Botanical Garden?	After the rehabilitation of the garden, number of the employees may be increased.

	One of the main objectives of this sub-project is to promote employment possibilities. The City Hall will decide what legal status the Botanical Garden will have: Non-profit Non-commercial Legal Body, Limited Liability Company or other.
Who will be responsible for the garden maintenance during rehabilitation works?	Contractor will be responsible for maintaining the garden during the rehabilitation works. The supervising company will be monitoring the contractor to fulfill all the conditions such as waste removal, to protect the plants, etc.
How will the stable be reconstructed?	The stable is today in a very poor condition, the walls are covered with grasses. Since this building is a cultural heritage monument, the project includes the conservation works for the stable.
Please give us more details about the cross-shaped palace	The buildings which are part of the cultural heritage - Stable and a Cross-shaped Palace - will be conserved. The walls of the stable will be restored to a certain height. There will also be important details, such as a fireplace, the original face of the floor and walls.
Are any kind of rehabilitation works planned on the lake?	The SP envisages rehabilitation of the walls and bottom of the artificial pond, which is not a natural lake. Lining of the pond will be made of concrete. The rails will be as low as they are today. Three levels of greenery will be arranged.
Will the paths be lighted?	Yes, the paths will be illuminated, as the sub-project envisages setting up outdoor lighting throughout the Botanical Garden.
The Environmental Management Plan also states that some buildings will be dismantled. Which are these buildings?	Obsolete buildings that have no historical value will be removed, such as the old office of Director and the old toilet.
Will new toilets be arranged?	The toilets will be arranged near the entrances of the garden and near the administrative building as well.
How long will tendering last?	40 days is the period of tender process and the assessment will be made.
Are the ruins of the summer residence next to the stable, and what will happen to them?	As already mentioned, conservation of old objects in the list of cultural heritage will be botanical garden.
How will the internal roads be arranged?	The paths will be arranged so that the four exits on the garden are on the exit.
Please show the samples of the branches, gates and fences.	Upon request from the attendants of the public consultation meeting, relevant imagery was shown on the projected slides.
What will be the design of toilets?	The exterior of toilets will have a glass effect so that they reflect the surrounding greenery.
Is this a sub-project approved by the Agency for Cultural Heritage Preservation?	The sub-project is the initiative of the National Agency for Cultural Heritage Preservation.

How will tourist visitation to the Botanical Garden be priced?	The local self-governance will decide and set prices and other conditions for the garden visitors.
Will there be a cafeteria?	On the first floor of the administrative building.
Will the plants be protected?	Of course, the sub-project will facilitate restoration and conservation of plants.
When will the supervisor be selected?	The MDF has hired a company that supervises the ongoing sub-projects within SRMIDP.
Will the contractor undertake obligation of hiring local population?	According to procurement rules, contractor's obligation to hire local population will not be defined by the contract. However, in most cases local work force is hired by contractors.

After discussing of Environmental Documents, meeting participants expressed their sympathy towards the scheduled project. Neither additional questions nor comments were put.

Enclosure: Photo material and copy of list of attendees. Zugdidi Municipality City hall organized video recording of the Public Consultation Meeting, the live stream of the meeting was on the official social network page.

Present Minutes are prepared by Ketevan Papashvili - specialist of Environment and resettlement unit at Municipal Development Fund of Georgia.

19 July 2017

Registration Sheets for the meeting attendants:

ზუგდიდის მუნიციპალიტეტი

ქვეპროექტი - ზუგდიდის ბოტანიკური ბაღის რეაბილიტაცია

ქალაქზუგდიდში

19 ივლისი, 2017 წელი

შეხვედრაზე დამსწრეთა რეგისტრაციის ფურცელი

	სახელი, გვარი	ორგანიზაცია/მოქალაქე	საკონტაქტო ინფორმაცია	ხელმოწერა
1.	ბაქო მესხი	ქ. ზუგდიდის მესხი	595-800-444	<i>[Handwritten Signature]</i>
2.	საბო სოხია	ქ. ზუგდიდის მესხი	591-44-53-27	<i>[Handwritten Signature]</i>
3.	მესხი ასეზი	ქ. ზუგდიდის მესხი	591-44-53-42	<i>[Handwritten Signature]</i>
4.	გიგოლი ჯაბა	ქ. ზუგდიდის მესხი	591-44-53-68	<i>[Handwritten Signature]</i>
5.	ვახტანგ თომაძე	ქ. ზუგდიდის მესხი	595 22 95 77	<i>[Handwritten Signature]</i>
6.	მამია თომაძე	ქ. ზუგდიდის მესხი	599 53 53 39	<i>[Handwritten Signature]</i>
7.	მამია თომაძე	ქ. ზუგდიდის მესხი	591-44-5-63	<i>[Handwritten Signature]</i>

8.	Համես Զմարտի	Դ. Եղջերակ Զոհա-	599 85 23 95	
9.	Զրուհյան Զայրույթ	Միտիլիթիս Լուսինյան	599 85 23 96	
10.	Հայր Օրմուկ	Սարգսյան Լուսինյան	599-34-88-24	
11.	Եսոս Զոհար	Տիտյան Լուսինյան	579 89 09 73	
12.	Նոնա Գրիգորյան	Յակոբյան Լուսինյան	593 313931	
13.	Մուշկ Զոհար	Սարգսյան "Զոհար"	599 617847	
14.	Զոհար Զոհար	CENN-՝՝ Զոհար Յակոբյան Լուսինյան	599 154096 maria.kadua@gmail.com	Զ. Զոհար
15.	Զոհար Զոհար	Դ. Եղջերակ Զոհար	591445373	
16.	Նուշա Զոհար	Դ. Եղջերակ Զոհար	591 445369 irakti0478@gmail.com	
17.	Զոհար Զոհար	Լուսինյան Զոհար (ISFED) Լուսինյան Զոհար	597 12 34 88 hata.agtebardi@gmail.com	
18.	Զոհար Զոհար	Լուսինյան Զոհար Լուսինյան Զոհար	1149207.gabelia@gmail.com	

19.	մեր զոյս	Դ. Բաղդասար Կահանայան	599-85-23-99.	Գ. Գ.
20.	մեր զոյս	Դ. Բաղդասար Ժմիր	5-96-59-41-41.	Ռ. Գ.
21.	Երևանի զոյս	Կարեն Կարենյան Կարենյան Կարենյան Կարենյան Կարենյան Կարենյան Կարենյան	598 903393	Գ. Գ.
22.	արցունքի զոյս	Կարեն Կարենյան	597 730464	Ա. Գ.
23.	զոյսի զոյս	Դ. Բաղդասար Ժմիր	591-44-53-35	Գ. Գ.
24.	Կարենյան զոյս	Դ. Բաղդասար Ժմիր Կարենյան Կարենյան Կարենյան Կարենյան	598-48-48-46	Գ. Գ.
25.	Կարենյան զոյս	Դ. Բաղդասար Ժմիր Կարենյան Կարենյան Կարենյան Կարենյան	591445312	Գ. Գ.
26.	Կարենյան զոյս	Դ. Բաղդասար Ժմիր Կարենյան Կարենյան Կարենյան Կարենյան	591 445350	Գ. Գ.
27.				
28.				
29.				



Photo Materials:



The live stream of the public consultation meeting and the video is available at the following link:  
<https://www.facebook.com/zugdidismeria/videos/1525150674173128/>

7/21/2017

პროექტის - „ზუგდიდის ზოტანიკური ზადის... - ქალაქ ზუგდიდის მერია

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Password

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Facebook © 2017

-37:33



ქალაქ ზუგდიდის მერია was live.  
Yesterday at 01:22 ·

პროექტის - „ზუგდიდის ზოტანიკური ზადის რეაბილიტაცია“, ბუნებრივ და სოციალურ გარემოზე ზემოქმედების მართვის გეგმისა და სოციალური ანგარიშგაღებულების საჯარო განხილვა.  
ქვეპროექტი ხორციელდება მუნიციპალური განვითარების ფონდის მიერ მეორე რეგიონული და მუნიციპალური ინფრასტრუქტურის განვითარების პროექტის(RMIDPS) ფარგლებში, რომელიც მიმდინარეობს მსოფლიო ბანკის მხარდაჭერით. ქვეპროექტი ითვალისწინებს ქ. ზუგდიდში ზოტანიკური ზადის რეაბილიტაციას.

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