



**Completing of Annex to Vani Archaeological Museum Building
Sub-Project**

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

**WORLD BANK FINANCED
SECOND REGIONAL DEVELOPMENT PROJECT**

Environmental Screening

The Sub-project (SP) includes completion of 4-storied extension to the Vani Archeological Museum, located in Western Georgia, Imereti Region, and town of Vani.

Vani Archeological Museum was constructed in 1985. Rehabilitation project was reinforcement of existing building and entire design with construction of additional building. Due to the fact that sustainability of old building of the museum was not surveyed at the beginning, at the inception stage of rehabilitation works, initial construction omissions became obvious and necessity of additional reinforcement works have been appeared. For this purpose in 2013 MDF financed preparation of the detailed design documentation but construction works have been terminated before preparation of new design and renewal of construction.

However part of the works for construction of extension to the Vani Archeological Museum are accomplished by now – foundation has been arranged and load-bearing structures of the first and second floor – columns, cross-beams, ceiling panels – are partially arranged. The mentioned structures are not finished, exposed without any protection and under risk of becoming unusable and unsuitable for construction. Thus completion of the load-bearing concrete structures and arrangement of temporary cover of flat roof is included into the SP. Besides, temporary arrangement of wood panels and polyethylene cover on openings on facades (outer windows, stained glass panels) and roof will be carried out. The design of the mentioned elements will be included in the future project, in uniform context of new building of the Museum.

The SP implementation duration is 5 months.

(A) IMPACT IDENTIFICATION

Has sub-project a tangible impact on the environment?	The SP has a minor short term negative environmental impact.
What are the significant beneficial and adverse environmental effects of sub-project?	Civil works within the SP are directed for maintain partially arranged structures until the works for rehabilitation and expansion of the Vani Archeological Museum will be renewed. Minor negative impacts are related to dust, emissions, noise, and generation of small amount of construction waste and vibration during construction period.
May the sub-project have any significant impact on the local communities and other affected people?	No land take and resettlement are expected. Negative impacts are short term and limited to the construction site.

(B) MITIGATION MEASURES

Were there any alternatives to the sub-project design considered?	Given that the SP includes maintenance works of the partially arranged structures until the works for rehabilitation and expansion of the Vani Archeological Museum will be renewed no alternatives have been considered.
What types of mitigation measures are proposed?	The expected negative impacts of the construction phase can be easily mitigated by demarcation of the construction site, traffic management, good maintenance of the construction machinery, observance of the established working hours, and disposal of waste and cut ground to the formally agreed sites.
What lessons from the previous similar projects have been incorporated into the sub-project design?	NA
Have concerned communities been involved and have their interests and knowledge been adequately taken into consideration in sub-project preparation?	EMP of the SP is posted on MDF's web page and information on the ongoing works is posted on the banner placed near the construction site.

(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.)?		✓
<p>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</p>			

Environmental Management Plan

PART A: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL & ADMINISTRATIVE			
Country	Georgia		
Project title	Regional Development Project 2 (RDP 2)		
Sub-project title	Completing of Annex to Vani Archaeological Museum Building		
Scope of site-specific activity	<p>The Sub-project (SP) includes completion of 4-storied extension to the Vani Archeological Museum, located in Western Georgia, Imereti Region, and town of Vani.</p> <p>Vani Archeological Museum was constructed in 1985. Rehabilitation project was reinforcement of existing building and entire design with construction of additional building. Due to the fact that that sustainability of old building of the museum was not surveyed at the beginning, at the inception stage of rehabilitation works initial construction omissions became obvious and necessity of additional reinforcement works. For this purpose in 2019 MDF financed preparation of the detailed design documentation but construction works have been terminated before preparation of new design and renewal of construction.</p> <p>Part of the works are accomplished by present – foundation has been arranged and load-bearing structures of the first and second floor – columns, cross-beams, ceiling panels – are partially arranged. Part of structures are not finished and under risk of becoming unusable and unsuitable for construction. Thus completion of the load-bearing concrete structures and arrangement of temporary cover of flat roof is included into the SP. Besides, temporary arrangement of wood panels and polyethylene cover on openings on facades (outer windows, stained glass panels) and roof will be carried out. The design of the mentioned elements will be included in the future project, in uniform context of new building of the Museum.</p>		
Institutional arrangements (WB)	Task Team Leader: Ahmed Eiweida		Safeguards Specialist: Darejan Kapanadze
Implementation arrangements (Borrower)	Implementing entity: Municipal Development Fund of Georgia	Works supervisor: Consulting company Eptisa Servicios de Ingenieria S.L. Spain	Works contractor: ``Injmsheni-96`` Ltd.
SITE DESCRIPTION			
Name of institution whose premises are to be rehabilitated	Vani Archeological Museum (branch of Georgian National Museum)		

Address and site location of institution whose premises are to be rehabilitated	32 Lortkipanidze street, Vani Tel: (995 32) 299 80 22 E-mail: info@museum.ge
Who owns the land? Who uses the land (formal/informal)?	State property
Description of physical and natural environment around the site	The Vani Archeological Museum is located in town of Vani, Imereti region. Distance from Tbilisi is 280 km. The museum was established in 1985. In 2012 rehabilitation and extension of the museum building have been started. However the project was suspended and works have been on hold till the development of new design of the museum buildings. The museum is located in urban area and bordering with residential yards, nut orchards and road.
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 10 km.
LEGISLATION	
National & local legislation & permits that apply to project activity	The subproject has been classified as low risk Category B according to the World Bank policies and the EMF. Georgian legislation does not require any type of environmental review, approval, or permitting for the SP. Though according to the national regulatory system: (i) construction materials must be obtained from licensed providers, (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, (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 the Ministry of Environment and Natural Resources Protection (MoENRP); (iv) Permanent placement cut-to-spoil material generated in the course of earth works in a selected location must be approved by local (municipal) governing bodies in written; (v) Construction waste must be disposed on nearest municipal landfill in accordance with written agreement with the Solid Waste Management Company of Georgia Ltd. GOST and SNIP norms must be adhered.
PUBLIC CONSULTATION	

When / where the public consultation process will take /took place	EMP of the SP is posted on MDF's web page and information on the ongoing works is posted on the banner placed near the construction site.
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ATTACHMENTS

- Attachment 1: Site plan and photos
- Attachment 2: Agreement for Waste Disposal
- Attachment 3: Documents on purchasing of inert materials

PART B: SAFEGUARDS INFORMATION

ENVIRONMENTAL /SOCIAL SCREENING			
	Activity/Issue	Status	Triggered Actions
Will the site activity include/involve any of the following?	A. Building 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) During pneumatic drilling/destruction dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site; (b) The surrounding environment (sidewalks, roads) shall be kept free of debris to minimize dust; (c) There will be no open burning of construction / waste material at the site; (d) There will be no excessive idling of construction vehicles at sites; (e) 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 should 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; (b) 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; (c) 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.

	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) Burning of waste on the SP site is forbidden;</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>
	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 inform 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>
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 ensure that the construction site is properly secured and construction related traffic regulated. This includes but is not limited to</p> <ul style="list-style-type: none"> ▪ 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.

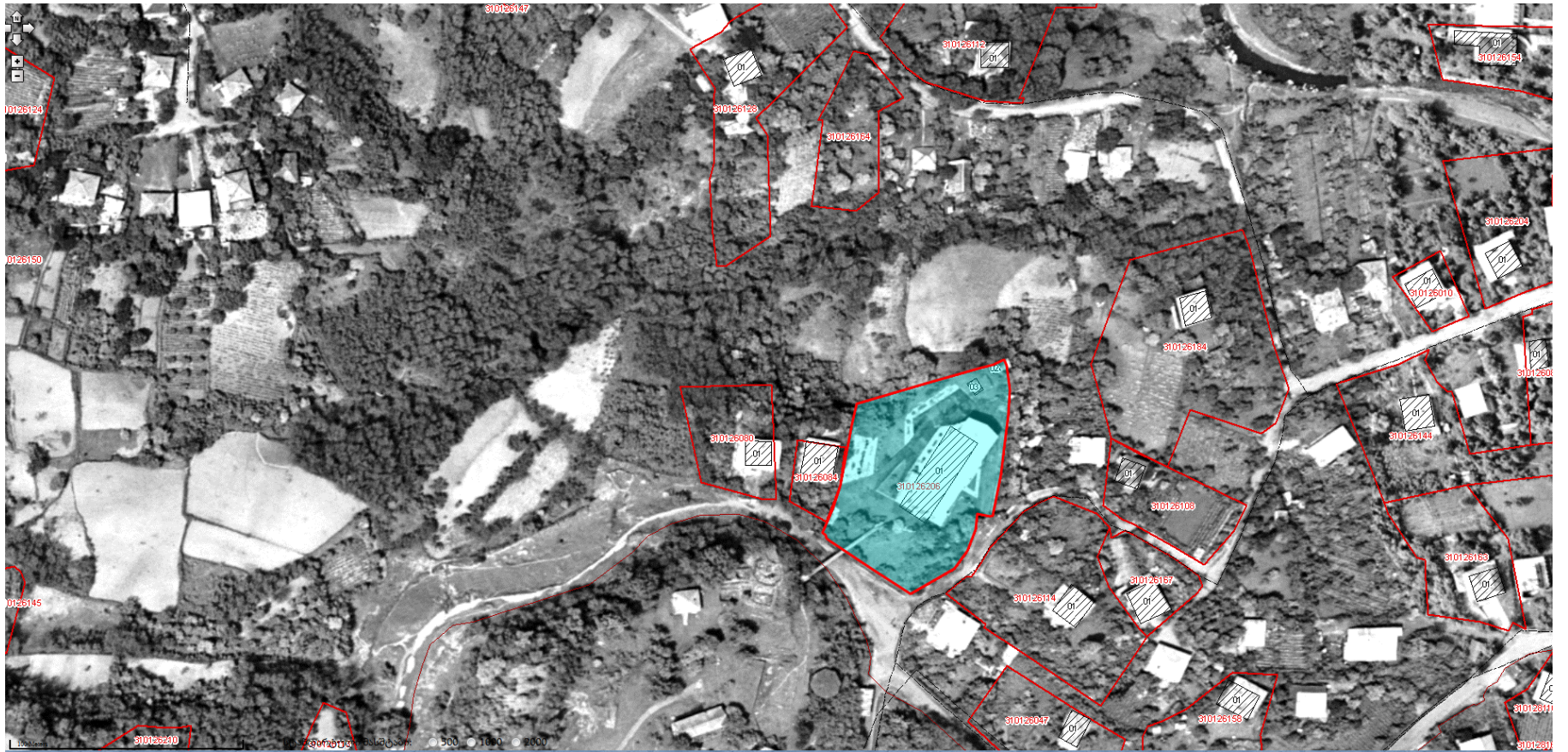
PART D: MONITORING PLAN

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	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 river banks, water	MDF, Construction supervisor

	<p>compliance with the license conditions;</p> <p>Terracing of the borrow area, backfilling to the exploited areas of the borrow site, and landscape harmonization;</p> <p>Excavation of river gravel and sand from outside of the water stream, arrangement of protective barriers of gravel between excavation area and the water stream, and no entry of machinery into the water stream.</p>				<p>pollution with suspended particles and disruption of aquatic life.</p>	
<p>Generation of construction waste</p>	<p>Temporary storage of construction waste in especially allocated areas;</p> <p>Timely disposal of waste to the formally designated locations</p>	<p>Construction site; Waste disposal site</p>	<p>Inspection</p>	<p>Periodically during construction and upon complaints</p>	<p>Prevent pollution of the construction site and nearby area with solid waste</p>	<p>MDF, Construction supervisor</p>
<p>Traffic disruption and limitation of pedestrian access</p>	<p>Installation of traffic limitation/diversion signage;</p> <p>Storage of construction materials and temporary placement of construction waste in a way preventing</p>	<p>At and around the construction site</p>	<p>Inspection</p>	<p>In the course of construction works</p>	<p>Prevent traffic accidents; Limit nuisance to local residents</p>	<p>MDF, Construction supervisor</p>

	congestion of access roads					
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

Attachment 1. Site location and pictures





Attachment 2: Agreement for Waste Disposal

