

# Environmental Management Plan

for rehabilitation of secondary road Bolnisi-Sioni Monastery km 1 - km 9

> Tbilisi, Georgia 2014



## **PART 1: GENERAL PROJECT AND SITE INFORMATION**

INSTITUTIONAL & ADMINISTRATIVE								
Country	Georgia							
Project title	Rehabilitation of secondary	y road Bolnisi-Sioni Monas	stery km 1 - km 9					
Scope of project and activity	Road pavement comprises asphalt concrete surface course with average thickness of 10 cm, and base course composed of sand-and-gravel mix with thicknesses from 5 cm to 50 cm. The major damages evident on the pavement are fractures, fatigue cracking, potholes and failed edges. Width of asphalt pavement mainly varies in the range of 5m-6m. Widening of the road along entire length is not envisaged. However at some sections the carriageway will be widened and geometric parameters improved for upgrading road safety conditions.  Cross and longitudinal properties of sections are breached.							
		The ditches are to be arranged along the road, and the existing road side ditches need cleaning						
	There are 2 bridges along overpass bridge under wh vertical clearance of 3.6 m	nich the project road runs	through. The latter br					
Institutional	WB	Project Management	Local Counterpar	t and/or Recipient				
arrangements	(Project Team Leader)	Giorgi Tsereteli	Bolnisi M	lunicipality				
(Name and contacts)	Joseph Melitauri	RDMRDI						
Implementation arrangements (Name and contacts)	Safeguard Supervision WB Darejan Kapanadze	Local Counterpart Supervision Technical Supervisor (LLC "Roads Rehabilitation and Modernization Supervision Direction")	Local Inspectorate Supervision -	Contractor (LLC "Kcia" LLC "Bel-Bau") Badro Tkeshelashvili Amiran				
		Merab Jishiashvili)		Kiknavelidze				
SITE DESCRIPTION								
Name of site	Road serves as a conne Monastery, as well as for a			heritage site - Sioni				
Describe site location	The project sections are lo	cated in the Bolnisi district	•					
	The first 500 m section run Monastery and ends et the							
Who owns the land?	Bolnisi Municipality							
Description of geographic, physical, biological, geological,	Location - Project section irigation channels cross th section.	e project road at many pla	aces, particularly at kr	m 0+500 - km 1+000				
hydrographic and socio-economic context	Air - Air quality in the proje facilities.	•	tranic levels and the a	bsence of industrial				
Context	Water and Soil - No pollution	on is reported.						
	Flora - The construction activities will be carried out in the existing alignment and without alteration of the existing elements (straights, curves, widths etc.). Vegetation would only be affected in the sections were side drains are to be rehabilitated or reconstructed. Vegetation is sparse along the road with rare occurrence of bushes and small trees that are not part of riparian forests. No protected species have been observed in the vicinity of the road.							
	<u>Fauna</u> – Impacts upon fau confined to the existing roa these sections will be restr garbage or other impedime	ad. There are several rivers icted to rehabilitation of bri ents to water flows; resultin	s that are crossed by the dge abutments, requiring in a positive impact	he road. Works in ing the removal of on existing fauna.				
	Noise - The current noise I	evel is low due to low traffi	c levels and a lack of i	industrial facilities.				



	The project will have modest impact on the village population, as construction works will constraint movement only of those people who reside immediately along the road and this impact will be limited to the rehabilitation phase.
Locations and distance for material sourcing, especially aggregates, water, stones?	The sand and gravel is excavated from the river Mashavera, near city Bolnisi, Bolnisi municipality;
LEGISLATION	
Identify national & local legislation & permits that apply to project activity	The project triggers World Bank OP/BP 4.01 - Environmental Assessment and, according to its principles, has been classified as environmental Category B. The present EMP has been prepared to meet requirements of OP/BP 4.01.  Georgian legislation does not require any type of environmental review, approval, or permitting for the project. Though according to the national regulatory system,  (i) works contractor must be licensed,  (ii) construction materials must be obtained from licensed providers,  (iii) 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,  (iv) if contractor wishes to operate own asphalt or concrete plant (rather than purchasing these materials from other providers), then the contractor must obtain an environmental permit with an established ceiling of pollutant concentrations in emissions.  (v) disposal of the construction waste into a landfill or permanent placement of access inert material generated in the course of earth works in a selected location must be approved by local (municipal) governing bodies in written.
PUBLIC CONSULTAT	ION
Identify when / where the public consultation process took place	Environmental Management Framework for the Secondary and Local Roads Project III was disclosed through the RDMRDI web page and a stakeholder consultation meeting was held on April 11, 2014. The present site-specific EMP was disclosed through the same media and also delivered in hard copies to the municipality of Bolnisi. Consultation meeting with local communities was held and the minutes of this meeting was attached to this EMP.
ATTACHEMENTS	
	Map and photos of the road Minutes of public consultation Waste disposal agreement Borrowing license Asphalt plant operation agreement



## PART 2: SAFEGUARDS SCREENING AND TRIGGERS

ENVIRONMENTAL /SOCIAL SCREENING FOR SAFEGUARDS TRIGGERS						
Will the site activity	Activity/Issue	Status	Triggered Actions			
	A. Roads rehabilitation	[ <b>x</b> ] Yes [] No	If "Yes", see Section A below			
	B. New construction of small traffic infrastructure	[ ] Yes [ <b>x</b> ] No	If "Yes", see Section A below			
	C. Impacts on surface drainage system	[ <b>x</b> ] Yes [ ] No	If "Yes", see Section <b>B</b> below			
	D. Historic building(s) and districts	[ ] Yes [ <b>x</b> ] No	If "Yes", see Section C below			
include/involve any of the	E. Acquisition of land <sup>1</sup>	[ ] Yes [ <b>x</b> ] No	If "Yes", see Section <b>D</b> below			
following??	F. Hazardous or toxic materials <sup>2</sup>	[ ] Yes [ <b>x</b> ] No	If "Yes", see Section E below			
	G. Impacts on forests and/or protected areas	[ ] Yes [ <b>x</b> ] No	If "Yes", see Section F below			
	H. Risk of unexploded ordinance (UXO)	[ ] Yes [ <b>x</b> ] No	If "Yes", see Section <b>G</b> below			
	Traffic and Pedestrian Safety	[x] Yes [ ] No	If "Yes", see Section H below			

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## **PART 3: MITIGATION MEASURES**

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
General Conditions	Notification and Worker Safety	<ul> <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> <li>(a) During excavation works dust control measures shall be employed, e.g. by spraying and moistening the ground</li> <li>(b) Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust</li> <li>(c) During pneumatic drilling or breaking of pavement and foundations dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site</li> <li>(d) The surrounding environment (sidewalks, roads) shall be kept free of soil and debris to minimize dust</li> <li>(e) There will be no open burning of construction / waste material at the site</li> <li>(f) All machinery will be well maintained and serviced and there will be no excessive idling of construction vehicles at sites</li> </ul>
	Noise	<ul> <li>(a) Construction noise will be limited to restricted times agreed to in the permit</li> <li>(b) During operations the engine covers of generators, air compressors and other powered mechanical equipment shall be closed, and equipment placed as far away from residential areas as possible</li> </ul>
	Water Quality	(a) 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 canalization and nearby streams and rivers
	Waste management	<ul> <li>(a) Waste collection and disposal pathways and sites will be identified for all major waste types expected from excavation, demolition and construction activities.</li> <li>(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.</li> <li>(c) Construction waste will be collected and disposed properly into formally agreed upon locations.</li> <li>(d) Whenever feasible Contractor will reuse and recycle appropriate and viable materials (except when containing asbestos)</li> </ul>
<b>B</b> . Impacts on surface drainage system	Water Quality	<ul> <li>(a) There will be no unregulated extraction of groundwater, nor uncontrolled discharge of process waters, cement slurries, or any other contaminated waters into the ground or adjacent streams or rivers.</li> <li>(b) There will be proper storm water drainage systems installed and care taken not to silt, pollute, block or otherwise negatively impact natural streams, rivers, ponds and lakes by construction activities.</li> <li>(c) There will be procedures for prevention of and response to accidental spills of fuels, lubricants and other toxic or noxious substances.</li> <li>(d) Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies.</li> </ul>



ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
C. Historic building(s)	Cultural Heritage	<ul> <li>(a) If construction works take place close to a designated historic structure, or are located in a designated historic district, notification shall be made and approvals/permits be obtained from local authorities and all construction activities planned and carried out in line with local and national legislation.</li> <li>(b) It shall be ensured that provisions are put in place so that artifacts or other possible "chance finds" encountered in excavation or construction are noted and registered, responsible officials contacted, and works activities delayed or modified to account for such finds.</li> </ul>
<b>D</b> . Acquisition of land	Land Acquisition Plan/Framework	<ul> <li>(c) If expropriation of land was not expected but is required, or if loss of access to income of legal or illegal users of land was not expected but may occur, that the Bank's Task Team Leader shall be immediately consulted.</li> <li>(d) The approved Land Acquisition Plan/Framework (if required by the project) will be implemented</li> </ul>
E. Toxic materials	Asbestos management	<ul> <li>(a) If asbestos is located on the project site, it shall be marked clearly as hazardous material</li> <li>(b) When possible the asbestos will be appropriately contained and sealed to minimize exposure</li> <li>(c) The asbestos prior to removal (if removal is necessary) will be treated with a wetting agent to minimize asbestos dust</li> <li>(d) Asbestos will be handled and disposed by skilled &amp; experienced professionals</li> <li>(e) If asbestos material is stored temporarily, the wastes should be securely enclosed inside closed containments and marked appropriately. Security measures will be taken against unauthorized removal from the site.</li> <li>(f) The removed asbestos will not be reused</li> </ul>
	Toxic / hazardous waste management	<ul> <li>(a) Temporarily storage on site of all hazardous or toxic substances will be in safe containers labeled with details of composition, properties and handling information</li> <li>(b) The containers of hazardous substances shall be placed in an leak-proof container to prevent spillage</li> <li>(c) The wastes shall be transported by specially licensed carriers and disposed in a licensed facility.</li> <li>(d) Paints with toxic ingredients or solvents or lead-based paints will not be used</li> </ul>
F. Affected forests, wetlands and/or protected areas	Ecosystem protection	<ul> <li>(a) All recognized natural habitats, wetlands and protected areas in the immediate vicinity of the activity will not be damaged or exploited, all staff will be strictly prohibited from hunting, foraging, logging or other damaging activities.</li> <li>(b) A survey and an inventory shall be made of large trees in the vicinity of the construction activity, large trees shall be marked and cordoned off with fencing, their root system protected, and any damage to the trees avoided</li> <li>(c) Adjacent wetlands and streams shall be protected from construction site run-off with appropriate erosion and sediment control feature to include by not limited to hay bales and silt fences</li> <li>(d) There will be no unlicensed borrow pits, quarries or waste dumps in adjacent areas, especially not in protected areas.</li> </ul>
G. Risk of unexploded ordinance (UXO)	Hazard to human health and safety	(a) Before start of any excavation works the Contractor will verify that the construction area has been checked and cleared regarding UXO by the appropriate authorities
H Traffic and pedestrian safety	Direct or indirect hazards to public traffic and pedestrians by construction activities	<ul> <li>(b) 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</li> <li>Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards</li> <li>Traffic management system and staff training, especially for site access and near-site heavy traffic. Provision of safe passages and crossings for pedestrians where construction traffic interferes.</li> <li>Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement</li> <li>If required, active traffic management by trained and visible staff at the site for safe passage for the public</li> </ul>



	<ul> <li>Ensuring safe and continuous access to all adjacent office facilities, shops and residences during</li> </ul>
	construction



## **PART 4: MONITORING PLAN**

## **Construction Phase**

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?)
Supply of construction materials	Purchase of the construction materials from licensed providers	Offices and warehouses of material suppliers, and borrowing sites	Checking documents; Inspection of material quality	In the process of signing the agreements for material provision	Ensure technical quality of construction;  Protect human health and environment	Roads Department (RD)
Transportation of construction materials and waste  Movement of construction equipment	Technical condition of construction vehicles and machinery;  Adequacy of the loading trucks for transported types of cargo, and canopy coverage of cargo transported in open trucks;  Movement of construction vehicles and machinery along pre-defined routes.	Routes for transportation of construction materials and construction wastes	Inspection of roads adjacent to the construction site and included in the agreed-upon routes of transportation	Unannounced checks during the working hours	Avoid air and road pollution eith dust and solid matter;  Reduce traffic disruption	RD; Traffic Police
Operation of Construction machinery on site	Proper technical condition of construction machinery:  • no excessive exhaust,  • no fuel leakage,  • respect of working hours	Construction site	Inspection	Within and off working hours	Reduce air and soil pollution caused by equipment operation; Reduce noise and dust nuisance to local population	RD



Servicing of construction	Washing vehicles and machinery off-site of in	Construction site and construction	Inspection	Entire period of machinery	Avoid land and water pollution with oil	RD
machinery	the location sufficiently	base (if applicable)		operation	products due to	
Пасппету	distant from water	base (ii applicable)		operation	servicing of vehicles	
	bodies;				and machinery;	
	,				3,	
	Servicing vehicles and				Be ready for fire	
	machinery with oils and				emergency action to	
	lubricants off-site or in				promptly localize fire	
	an especially arranged				source and minimize	
	location on-site;				material damage	
	technical adequacy of					
	the servicing location:					
	solid, insulating floor					
	or adsorbent layer					
	(sand, gravel,					
	membrane),					
	containment barriers					
	allowing enough					
	sapce for holding fuel over the maximum					
	amount expected on					
	the location at a time,					
	emergency fire-					
	fighting kit,					
	<ul> <li>sedimentation pool at</li> </ul>					
	car wash area.					



Extraction of inert material	Purchase of inert material from the existing providers if possible;  Obtaining license for extraction of material by the Contractor and strict adherence to the terms of such license;  Terrace processing of the borrow pits, backfilling of excess material, and harmonization with landscape;  River bed gravel extraction away from water flow, arrangement of gravel barriers for isolating extraction area from water flow, prevention of water flow entry by vehicles and	Borrow areas	Checking documents Inspection of activities	The period of material extraction	Reduce slope erosion and damage to the ecosystem and landscape;  Reduce river bank erosion, water pollution with suspended particles, and impact on the aquatic life;  Protection of animals and people from accidents	Agency of Natural Resources
Generation of construction waste	entry by vehicles and machinery;  Demarcation of borrow areas with warning signs  Temporary storage of inert and hazardous wastes separately at the designated locations;  Timely disposal of waste to the formally designated landfills;  Hand-over of hazardous wastes to licensed deactivating and processing companies.	Construction site and base (if applicable); Locations designated for waste disposal	Checking documents; Visual observation	Entire period of construction	Avoid pollution of the environment	RD; Local Municipality



Accumulation of household waste	Provision of waste containers on-site;  Agreement with local municipality for regular out-transporting of waste	Construction site and base (if applicable)	Visual inspection	Entire period of construction	Avoid pollution of soil and water with household waste	RD; Local Municipality
Generation of liquid waste	Arrangement and operation of toilets compliant with sanitary norms on-site;  Arrangement of drainage system for storm water collection and periodic cleaning of the system from silt;  Arrangement of sedimentation pool for waste water collection on-site	Construction site and base (if applicable)	Visual inspection	Entire period of construction  Increased frequency of inspection in periods of high precipitation	Avoid flooding of construction site and base;  Reduce pollution of surface and ground water	RD
Operation of asphalt-concrete plant	Obtaining permit for impacting environment by Contractor and strict adherence to its terms;  Placement of plant in the location permissive for minimal disturbance of local population;  Arranging sedimentation pool for capturing of liquid discharges from plant	Construction site and base (if applicable)	Checking documents Inspection	Before establishment of plant and during entire period of its operation	Reduce inconvenience for local population due to plant operation;  Reduce air and surface water pollution from emissions and discharges from plant	RD; Environment Protection Agency
Safety of labor	- provision of Special Clothes and protective means for the contractors - Consistency with the rules of exploitation of the construction	Construction site	Inspection of the activities	the whole construction period	reduce the probability of accidents	RD



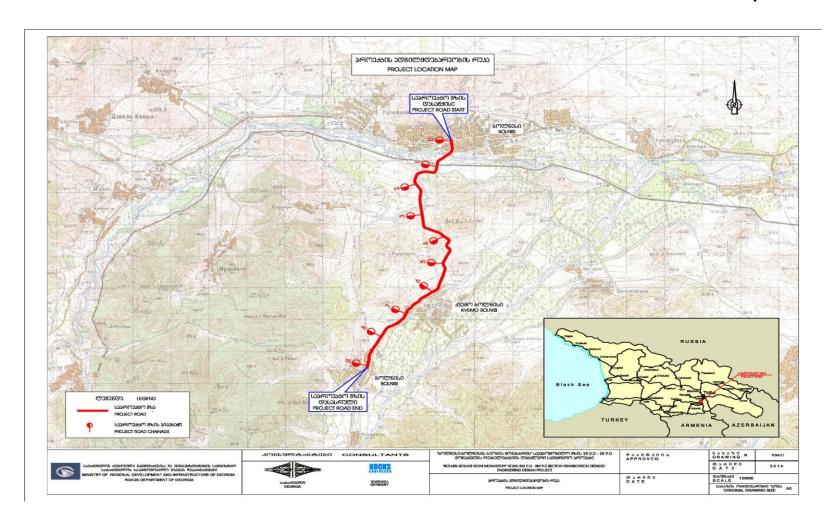
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equipment and usage of			
private safety means			
private safety means			

## **Operation Phase**

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?)
Cleaning road surface and shoulders from waste	Trash deposited from moving vehicles timely colleacted and removed;  Bodies of animals overrun by vehicles timely collected and removed	Carriageway and shoulders of the road section	Inspection	Quarterly	Prevent road littering; Road safety	Local municipality
Keeping road drainage system operational	Periodic cleaning of drainageditches from silt and trash	Drainage system long the road section	Inspection	Quarterly	Maintaining drainage system capacity for preventing road flooding and water damage	Local municipality
Confinement of accidental spills and clean-up	Timely confinement, deactivation, and removal of liquid or powder spills of cargo in case of road accidents	On the road and its immediate surroundings	Inspection	Upon occurenace of accidents, as required	Prevent pollution of soil and water	Traffic Police; Local municipality
Disposal of waste from regular road maintenance works	Collection and timely disposal of waste from maintenance works to the designated landfill	On the road and its immediate surroundings	Inspection	Towards completion of scheduled maintenance works	Prevent enviornment pollution	Local municipality



## **Attachment 1: Project Location Map**





#### **Attachment 2: Minutes of Public Consultation Meeting**

Public consultation on the draft Environmental Management Plan for the rehabilitation of secondary road Bolnisi-Sioni Monastery km1 - km 9 was held on 22 October 2014 at Bolnisi Municipality. The goal of the public discussion was to inform the local communities about the purpose of the upcoming works, their timeline; temporary inconvenience expected from the construction works; and planned measures for mitigating the expected negative environmental impact.

Local stakeholders had possibility to ask questions and express their opinion during the public discussion, so that their comments could have been considered in the final version of the Environmental Management Plan.

Representatives of the Roads Department of Georgia included Ms. Luiza Bubashvili and Maya Vashakidze

The public meeting was attended by the population of Bolnisi (see attachment).

Ms. Luiza Bubashvili and Ms. Maya Vashakidze informed attendees about the Environmental Management Plan of rehabilitation works under Secondary and Local Roads project.

Ms. Luiza Bubashvili opened the meeting and informed attendees about the roads construction on the territory of municipality, also was discussed the meaning of Secondary and Local Roads rehabilitation project for Georgian economic development.

Ms. Maya Vashakidze made a presentation of Environmental Management Plan. She covered the scope of planned works, their possible impact on the natural environment and human health. Also was overviewed mitigation measures proposed to reduce negative environmental impacts of the project in the construction and operation phases.

Irakli Litanishvili Deputy Chairman, Roads Departments of Georgia

(signed and sealed)

Representatives of Roads Department of Georgia:

Luiza Bubashvili Maya Vashakidze

(signed) (signed)



## List of Partisipants

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## **Attachment 3. Agreement for Waste Disposal**





## საქართველო ბოლნისის მუნიციპალიტეტის გამგეობა

1100 ქ. ბოლნისი ხულნის საბა ორბულიანის ქ.№106 ტელეფისი (0,258) - 22-29-29 - ფიქნი 0(358)22-25-00 bolnisimunicipality@gmail.com No. 0.5-1,0-3-3 0.5-23-200წ.

> შპს "ბელი-ბაუ"-ს დირექტორს ბატონ ამირან კიკნაველიძეს

ბატონო ამირან,

თქვენი 2015 წლის 23 თებერვლის №011 წერილის პასუხად გაცნობებთ, რომ ბოლნისის შუნიციპალიტეტის გამგეობა თანახმაა ბოლნისი-ხიონის მონასტრის საავტომობილო გზის მუ-5 კილომეტრიდან 300 მეტრში არსებული ბუნებრივი ნაღრმავება გამოიყენოთ ბოლნისი-სიონის მონასტრის საავტომობილო გზის შშენებლობასთან დაკავშირებით წარმოშობილ გამოუყენებელი ინერტული მასალის დასაქრელად.

პატივისცემით, მუნიციპალიტეტის გამგებელი გოგი მეშველიას



### **Attachment 4 Gravel Permits**



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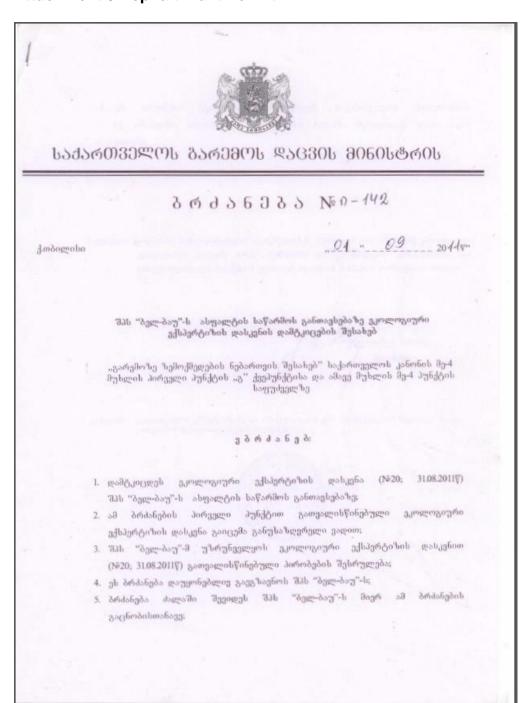
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## **Attachment 5 Asphalt Plant Permit**





 ეს ბრძანება შეიძლება გასანივრდეს საქართველოს მთავრობაში
 ქ თბილისი, ინგოროყვას ქ.№7) მისი ძალაში შესელიდან ერთი თვის ვადაში.

საფუძველი: გარდაპნის შუნიციპალიტეტის საკრემულოს-ს წუნილი №1473, 17.08.2011წ. გკოლოციური კქსპურტიზის დასკენა (№20; 31.08.2011წ) და კკოლოვიური კქსპურტიზისა და ინსპექტირების დასარტამუნტის უფროსის ნიკოლობ გასხაკიას მოსსენებითი პარათო.

J 4, hr 2000/100 biboda 3060 biboda

g bagligðu: gyngregagina gjlúghlyaðalu eu ablúgkjanlydali egishlyaðglejd, liði "age-dag"-lu eu gunlevaldali dybagakænglyglali bagligðgendi.

