# ROAD DEPARTMENT OF GEORGIAN MINISTRY OF REGIONAL DEVELOPMENT AND INFRASTRUCTURE



# Environmental and Social Management Plan

Rehabilitation of Jinvali-Barisakho-Shatili Road Section Km25.5 - km33.26

Secondary Road Asset Management Project

Tbilisi, Georgia

2019, Last updated 2021

# PART I: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL &	ADMINISTRATIVE								
Country	Georgia								
Project title	Rehabilitation of Secondary Jinvali- Barisakho-Shatili Road Section km25.5- km33.26								
Scope of project and activity	This road is the only access to the picturesque Khevsureti region. The region has a large potential for future touristic development because its natural landscapes and cultural heritage attract many national and internal visitors.								
	The road has an asphalt/concrete sum width varies between 7m and 8m.	rface, which is damaged due to age and	lack of maintenance	. The existing carriageway					
	l =	tated. Existing artificial structures, incl ty fences will be replaced, and addition	0 1 1	<b>-</b>					
	Junctions and yard entries will be re	epaired. Existing bus stops, shelters sha	ıll be newly arranged						
		ke rehabilitation works on this road se perform along the contract terms, it w		-					
	The original contractor prepared detailed design which includes earthworks, installation of the road signs, construction ditches and culvers, and etc. and completed the following volumes of work:								
	<ul> <li>55% (Lot 1) and 70% (Lot 2) of e</li> <li>55% (Lot 1) and 60-65% (Lot 2)</li> <li>85-90% of 4 bridges (Lot 1), 85-9</li> <li>5-8% of gabions are set out are c</li> <li>7-8% (Lot 1) and 3-4% (Lot 2) of</li> <li>The 6km (Lot 1) and 2km (Lot 2)</li> </ul>	of the culvers are constructed; 90% of 2 bridges (Lot 1), 100% of 1 brid	dge Lot 1) and 1 brid	ge (Lot 2) are completed;					
	rehabilitation by 1.26km, so that it	•	2011 2010 1010 1010 1010 1010 1010 1010	and originally servered for					
Institutional arrangements (Name and contacts)	WB Project Management Local Counterpart and/or Recipient  (Project Team Leader) Giorgi Tsereteli Dusheti municipality  Aymen A. Osman Ali								
Implementation arrangements (Name and	WB Local Counterpart Supervision Local Inspectorate Safeguards Supervision Technical Supervisor Supervision  Darejan Kapanadze LtD. Roads Rehabilitation and Supervision Supervision Branch in Geo								
contacts)	Environment <b>Sophia Georgieva</b>	Modernization Supervision Direction	-						
	Social	Merab Jishiashvili							

SITE DESCRIPTION	1				
Name of site	Secondary Jinvali-Barisakho-Shatili Road Section km25.5- km33.26				
	Dusheti municipality. Mtskheta-Mtianeti Region.				
Describe site location	The Zhinvali - Barisakho - Shatili road section is located within Dusheti Municipality, in the Mtskheta-Mtianeti Region, eastern Georgia, at the eastern slope of the Gudamakari Range.				
Who owns the land?	<ul> <li>i. The existing ROW is owned by Dusheti municipality.</li> <li>ii. Part of ROW had been within the State Forest Fund under the Legal Entity of Public Law (LEPL) National Forest Agency of the Ministry of Environment Protection and Agriculture of Georgia (596 m²). The territory was de-listed from the State Forest Fund and the cut trees were handed over to LEPL National Forest Agency according to the Georgian Legislation. The Territory was de-listed in 2016, prior to tendering rehabilitation works, and the tree felling was undertaken by the first contractor - AZ INSHAAT.</li> <li>Due to additional need for vegetation clearance, the new contractor - China Road and Bridge Corporation's Branch in Georgia - prepared documentation for de-listing extra 1527 m² area from the State Forest Fund.</li> <li>iii. Road rehabilitation does not require any widening or realignment that may cause impact on private lands or assets. During the detailed design, the ROW was screened in order to identify whether there is an impact on private/privately used property/livelihood (land, structures, vendors, trees, etc.). After screening of the rehabilitation road section no impacts has been identified on private/privately used lands.</li> </ul>				
Description of geographic, physical, biological, geological, hydrographic and socio-economic	<u>Location</u> : The Zhinvali – Barisakho-Shatili road of national importance is a sole road connecting the Pshav-Khevsureti region with other parts of the country. The region has a certain importance due to its touristic potential. Therefore, number of both local and foreign tourists is higher. Zhinvali-Barisakho road subject to rehabilitation passes through the valley of Pshavis-Aragvi River and is crossed by three larger rivers and 43 small nameless ravines. From the larger rivers should be noted Pshavis-Aragvi, Sharakhevi and Magarostskali. From these, Pshavis-Aragvi River is crossed by rehabilitation road in two locations.				
context	<u>Air</u> - Air quality in the project area is good due to low traffic levels and the absence of industrial facilities.				
	Water and Soil - No pollution is reported.				
	<b>Flora</b> - The following trees were within the area of the State Forest Fund (596m²) that got de-listed in 2016: Black Alder - <i>Alnus barbata</i> - 11 specimen, Caucasian Hornbeam - <i>Carpinus caucasica</i> - 9 specimen, Oriental Hombeam - <i>Caprinus orientalis</i> - 5 specimen and Field Maple - <i>Acer campestre</i> - 13 specimen.				
	The following trees are within the territory of the State Forest Fund (1527m²) which is yet to be de-listed: Oriental hornbeam - <i>Carpinus orientalis</i> - 26 specimen, Hornbeam - <i>Carpinus caucasica</i> - 5 specimen, Beech - <i>Fagus</i> - 5 specimen, Maple - <i>Acer</i> - 2 specimen, Georgian oak - <i>Quercus iberica</i> - 15 specimen. No Red Listed species are present within the project impact area.				
	<u>Fauna</u> - The construction activities will not foresee drastic alteration of road parameters. The project road pass through the degraded territory and accordingly the fauna is not reach. Mostly fauna is presented by the species which does not need any special protecting measures. Due to the small area of the project the impact on the fauna will be minimal.				
	Noise - The current noise level is low due to low traffic levels and a lack of industrial facilities.				
	Construction activities will have modest impact on those people who reside in existing villages (Immediately along the road) and this impact will be limited to the rehabilitation phase.				
	Social – The road section passes through 1 village. 9 more villages are located nearby and are served by the road.				
Locations and distance for material sourcing, especially inert aggregates, water, stones	Please see attachment 1 the Project Location Map and information about the quarries and borrow pit areas.				
LEGISLATION					
Identify national & local legislation & permits that apply to project	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 ESMP 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:				
activity	l (1) Contractor company must be licensed				
activity	<ul><li>(i) Contractor company must be licensed,</li><li>(ii) Construction materials must be obtained from licensed providers,</li></ul>				

- (iv) If, in time of rehabilitation, contractor wishes to operate own asphalt or concrete (or both) plants, he should have permission regarding specified limited level of pollutant substances in exhaust.
- (v) Disposal of the construction waste and excess ground generated in the course of earth works shall be placed in the selected locations agreed and approved by local governing bodies in written.
- (vi) Land plots of the State Forest Fund located along the road and required for undertaking of planned works must be formally de-listed from the Fund prior to commencement of road rehabilitation works within these plots.

#### GRIEVANCE REDRESS MECHANISM

# Describe structure of GRM

A grievance redress mechanism (GRM) will be available to allow an Affected Person (AP) appealing any decision on which they disagree.

The APs will be informed about the available GRM during public consultations and through distributing of brochures prior to commencement of works. In addition, an announcement with relevant information will be displayed on the information boards in the lobbies of buildings, and every project-affected municipality. APs will be fully informed of their rights and of the procedures for addressing complaints either verbally or in writing during pre-construction, construction and operation periods. Care will always be taken to prevent grievances rather than going through a redress process.

Grievance Redress Commission (GRC) Contact Person:

If the grievance remains unsolved at the local level, it will be lodged to the RDMRDI. For any information and advice, RD nominated following persons:

- 1. Mariam Begiashvili Social Safeguards Consultant; Mobile Phone 577 74 40 88; 555 400 205; e-mail: <a href="mbegiashvili2@gmail.com">mbegiashvili2@gmail.com</a>
- 2. Maya Vashakidze Environmental Safeguards Consultant; Mobile Phone: 593 32 30 77 e-mail: <a href="maya-vashakidze@yahoo.co.uk">maya-vashakidze@yahoo.co.uk</a>

Roads Department of RDMRDI: 12 Kazbegi str., Tbilisi, Georgia

Grievance Redress Commission (GRC) is formed by the order of the Head of RDMRDI as a permanently functional informal structure, engaging personnel of RDMRDI from all departments. This includes top management, Safeguards, Legal Departments, PR department and other relevant departments (depending on specific structure of the IA).

If the RDMRDI decision fails to satisfy the aggrieved APs, they can pursue further action by submitting their case to the appropriate court of law (Rayon Court) without any reprisal.

#### PUBLIC CONSULTATION

Identify when / where the public consultation process shall take place Environmental and Social Management Framework for the Secondary Road Asset Management Project was disclosed through the RDMRDI web page and a stakeholder consultation meeting was held on July 14, 2015. The present site-specific ESMP was disclosed through the same media and also delivered in hard copies to the **Municipality of Dusheti**. Consultation meeting with local communities was held on November 15, 2016. Current updated version of the ESMP was re-disclosed on RD's web page on 23/08/21.

#### ATTACHMENTS

Attachment 1: Work site location map and information about the quarries of natural construction material;

Attachment 2: Minutes of public consultation;

Attachment 3: Waste disposal agreement;

Attachment 4: Borrowing license;

Attachment 5: Asphalt plant operation agreement.

### PART II: SAFEGUARDS SCREENING AND TRIGGERS

ENVIRONMENTAL /SOCIAL SCREENING FOR SAFEGUARDS TRIGGERS						
	Activity/Issue	Status	Triggered Actions			
	1. Roads rehabilitation	[x] Yes [ ] No	If "Yes", see Section A below			
	2. New construction of small traffic infrastructure	[ ] Yes [x] No	If "Yes", see Section A below			
	3. Impacts on surface drainage system	[x] Yes [ ] No	If "Yes", see Section B below			
	4. Historic building(s) and districts	[ ] Yes [x] No	If "Yes", see Section C below			
Will the site activity	5. Acquisition of land <sup>1</sup>	[x] Yes [ ] No	If "Yes", see Section D below			
include/involve any of the following?	6. Hazardous or toxic materials <sup>2</sup>	[ ] Yes [x] No	If "Yes", see Section E below			
Ü	7. Impacts on forests and/or protected areas	[x] Yes [ ] No	If "Yes", see Section F below			
	8. Risk of unexploded ordinance (UXO)	[ ] Yes [x] No	If "Yes", see Section G below			
	9. Traffic and Pedestrian Safety	[x] Yes [ ] No	If 'Yes", see Section H below			
	10. Impacts on land property and use	[x] Yes [ ] No	If 'Yes", see Section I below			
	11. Social risk	[x] Yes [ ] No	If 'Yes", see Section J below			

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<sup>&</sup>lt;sup>1</sup> Land acquisition includes displacement of residents, change the way of life, this is concerning with land which was purchased/handed over and impact on persons living and/or unlawfully exist and or/performing business activities (Booths) on the land already purchased.

<sup>&</sup>lt;sup>2</sup> Hazardous or toxic materials contain, but is not limited to: asbestos, toxic paints, hazardous dissolvent materials, removal of lead containing materials and etc.

# PART III: MITIGATION MEASURES

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
0. General Conditions	Notification and	a) Notify local construction and environment inspectorates and communities on the upcoming activities;
	Worker Safety	b) Notify public on the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works);
		c) Obtain all legal permits for road construction works;
		d) Provide personnel with workers' personal safety equipment in compliance with international standards (should always wear helmets, masks and safety sunglasses, protective shoes);
		e) Post relevant warning and reminding signs with information on environmental, health and safety code of conduct in the visible locations of the work site;
		f) Post contact information around work site in the locations visible to local communities enabling project-affected people to raise questions and voice grievances.
A. General Rehabilitation and /or Construction	Air Quality	a) Apply precautionary measures to avoid excessive dust emission during earth works and materials loading-unloading (e.g., restriction material dropping from a big height during loading-unloading);
Activities		b) Keep demolition debris, excavated soil and aggregates in controlled area and sprayed with water mist to reduce debris dust;
		c) During pneumatic drilling or breaking of pavement and foundations, suppress dust by ongoing water spraying and/or installing dust screen enclosures at site;
		d) Keep free the surrounding environment (sidewalks, roads) free of soil and debris to minimize dust;
		e) Disallow open burning of construction/waste material at the site;
		f) Keep machinery in compliance with the regulations of the emission origin, proper technical repairs should be ensured, and the pitch shall be free from unnecessary construction machinery.
	Noise	a) Limit construction noise to daytime;
		b) Apply additional noise management arrangements in the vicinity of schools and hospitals;
		c) During operations, keep engine covers of generators, air compressors and other powered mechanical equipment closed, and place equipment as far away from residential areas as possible
	Water Quality	a) 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 nearby streams and rivers

	Waste management	a) Pre-identify and obtain formal permissions/agreement on the waste collection and disposal pathways and sites for all major waste types
		expected from excavation, demolition and construction activities;
		b) Separate mineral garbage / wastes remaining for construction and dismantling from general, organic, liquid and chemical waste and to be sorted in containers;
		c) Dispose all types of waste strictly according the existing formal agreements and exclusively to the designated locations;
		d) Reuse and recycle non-toxic wastes to the extent possible.
B. Impacts on surface drainage system	Water Quality	<ul> <li>a) Do not undertake uncontrolled extraction of groundwater, nor uncontrolled discharge of wastewater, cement slurry, or other polluted waters into surface water bodies or natural environment in general; obtain necessary licenses and permits for water extraction and regulated discharge prior to commencement of activity;</li> <li>b) Install and operate proper storm water drainage systems; ensure that they do not fill up with silt, do not pollute, block or otherwise negatively impact natural streams, rivers, ponds and lakes;</li> </ul>
		c) Introduce and follow procedures for prevention of and response to accidental spills of fuels, lubricants and other toxic or noxious substances;
		d) Wash construction vehicles and machinery only in designated areas where runoff will not pollute natural surface water bodies.
C. Historic building (s)	Cultural Heritage	<ul><li>a) If construction works takes place to designated historic structures or are located in a designated historic district, notification shall be made and approval/permits be obtained from local authorities and all construction activities planned and carried out in line with local and national regulation</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 work activities delayed or account for such finds</li></ul>
D. Acquisition of land	Land Acquisition Plan/Framework	a) If land take is required for undertaking works in a given site, do not enter this site until receipt of a formal notice from the Employer on the completion of resettlement and payment of compensations. Works are authorized after approval of the resettlement completion report by the Employer and the World Bank;
		b) In case of public complaints on incomplete or improper resettlement/compensation, take all activity on hold, enter complaints into log book and immediately inform the Employer. Do not resume works until formal notice from the Employer.
E. Toxic materials	Asbestos	a) If asbestos is located on the project site, it shall be marked clearly as hazardous material
	management	b) When possible of asbestos will be appropriately contained and sealed to minimize exposure
		c) Asbestos prior to removal (If necessary) will be treated with a wetting agent to minimize asbestos dust
		d) Asbestos will be handed and disposed by skilled & experienced professionals
		e) If asbestos material is stored temporarily, the waste should be securely enclosed inside closed container and marked appropriately. Security measures will be taken against unauthorized removal from the site.
		f) Removal of asbestos will not be reused

F. Affected forests, wetlands and/or protected areas	Toxic / hazardous waste management  Ecosystem protection	<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) Containers of hazardous substances shall be placed in a leak-proof container to prevent spillage</li> <li>c) Waste shall be transported by specially licensed carriers and disposed in licensed facility</li> <li>d) Paints with toxic ingredients or solvents or lead-based paints will not be used</li> <li>a) Works within the territory of the State Forest Fund are disallowed prior to completion of de-listing and user right transfer to this territory from the National Forest Agency to the RD</li> <li>b) Tree cutting must be held down to minimum by adjusting alignment of access roads, using small machinery or manual labor in individual locations, etc.</li> <li>c) All trees that have to be extracted must be marked and their removal must be entered into tree-cutting ledger on daily basis</li> </ul>
G. Risk of unexploded ordinance (UXO)	Hazard to human health and safety	a) Before to start any excavation activities, Contractor shall verify that the construction area has been checked and cleared regarding UXO by appropriate authorities
H. Traffic and pedestrian safety	Direct or indirect hazards to public traffic and pedestrians by construction activities	<ul> <li>In compliance with national regulations, ensure that the construction site is properly secured, and construction related traffic regulated. This includes but is not limited to:</li> <li>Use signposting, warning signs, barriers and traffic diversions so that the work site is clearly visible, and the public warned of all potential hazards</li> <li>Apply traffic management system and train staff, especially for site access and near-site heavy traffic; provide safe passages and crossings for pedestrians where construction traffic interferes.</li> <li>Adjust working hours to local traffic patterns, e.g. avoid major transport activities during rush hours or times of livestock movement</li> <li>If required, undertake active traffic management by trained and visible staff at the site for safe passage for the public</li> <li>If school children are in the vicinity, include traffic safety personnel to direct traffic during school hours</li> <li>Ensure safe and continuous access to all adjacent office facilities, shops and residences during construction</li> </ul>
I. Impacts on land property and use	Limited/lost access to the land	<ul><li>a) Ensure provision of undisturbed and safe access to homes, lands and other assets of the local population;</li><li>b) Plan road works to maintain undisturbed access to land and assets of the local population by planning and implementing works and activities in coordination with residents and representatives of the local community.</li></ul>
	Temporary impact on privately-owned assets	<ul> <li>a) Avoid trespassing or incidentally damaging of private property (using small-size machinery or manual labor near walls and fences, stockpiling of construction material and waste away from private property; etc.);</li> <li>b) In case of unintended damage to private property, quickly restore it to the original or better status;</li> <li>c) In case of expected temporary impact on privately-owned property, inform owners upfront and guarantee restoration, acquire written consent of owners for intervention, and promptly restore the damage to the original or better status;</li> <li>If an unexpected need for land take emerges in the cause of works, do not enter the affected site prior to development and full implementation of the Resettlement Action Plan by RD</li> </ul>
	Loss of income or assets caused by unauthorized	<ul> <li>a) Avoid unauthorized intervention of territory outside of ROW;</li> <li>b) If such impact occurs by negligence of the construction company workers, record the case/claim; assess the loss and negotiate with an affected owner based on the adopted principles and valuation methodology described in the Resettlement Policy Framework prepared for</li> </ul>

e) In case of accidental damages or temporary impacts of private property during the construction works, the construction company will be obligated to restore/compensate the loss in condition as it was before construction.  J. Social Impact  Public relationship management  a) Assign local liaison person who is in charge of communication with and receiving requests/ complaints from local population; b) Consulted local communities to identify and pro-proactively manage potential conflicts between an external workforce and local people;  c) Raise local community awareness about sexually disease risks associated with the presence of an external workforce and include local communities in awareness activities;  d) Inform population about construction and work schedules, interruption of the services, traffic detour routes and provisional bus routes blasting and demolition, as appropriate;  e) Limit construction activities at night. When necessary, carefully schedule night-time works and inform affected community so they catake necessary measures; f) At least five days in advance of any service interruption (including water, electricity, telephone, bus routes), advice affected community through postings at the project site, at bus stops, and in affected homes/businesses.  Labor management  a) To the extent possible, locate work camps away from local communities; b) Undertake sitting and operation of worker camps in consultation with neighboring communities; c) Recruit unskilled or semi-skilled workers from local communities to the extent possible. Where and when feasible, provide worker skill training to enhance participation of local people; d) Provide adequate lavatory facilities (toilets and washing areas) in the work site with adequate supplies of hot and cold running wate soap, and hand drying devices. Provide separate WC facilities where male and female workers are employed. Establish temporary sept tanks for any residential labor camp and without causing pollution of nearby watercourses; e) Raise awareness of wo		intervention,		SRAMP and provide fair cash compensation at the Company's own cost;
ROW   e   In case of accidental damages or temporary impacts of private property during the construction works, the construction company will be obligated to restore/compensate the loss in condition as it was before construction.    Public relationship management		-	c)	Apply GRM procedures if the case is unresolved through negotiation.
In case of accidental damages or temporary impacts of private property during the construction works, the construction company will be obligated to restore/compensate the loss in condition as it was before construction.    J. Social Impact		1	d)	If there were unavoidable permanent impact of private/private used property/livelihood occurred, the appropriate RAP will be prepared.
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including the dismissal of workers and financial penalties of adequate scale;			′	
1 Ensure availability of grievalice mechanism for workers on fabor-related issues.			f)	Ensure availability of grievance mechanism for workers on labor-related issues.

# PART IV: MONITORING PLAN

# Construction Phase

Activity	<b>What</b> (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	In the supplier's office or warehouse	Verification of documents and quality	During conclusion of the supply contracts	Ensure technical reliability and safety of infrastructure	Roads Department (RD)
Works in the forested territory	No physical activity takes place in the territory of the State Forest Fund until de-listing and user right transfer procedures are complete  Movement of construction vehicles and machinery, storage, or other activities do not damage and cause cutting of trees unless tree extraction is required for arranging road surface and shoulders  Threes that must be extracted are labeled prior to removal and each extracted tree is entered into the tree cutting ledger (species and diameter identified)	Work site within forested territory  Construction contractor's office	Checking documents Visual observation	Prior and in the course of works within the forested territory	Ensure compliance with the national legislation; Minimize impact on forested area; Facilitate procedure of hand over of loggs generated through tree cutting	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.	Construction materials and construction waste transportation routes	Inspection of nearby sites roads with directions of movement routes	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.	RD; Traffic Police

Operation of Construction machinery on site	Proper condition of Construction equipment: - surplus emissions - Fuel-lubricant - Working hours security - Damage of Tree plant if it is not considered for the road construction	Construction site	Inspection of the works	In and after working hours	Reduce the air and soil contamination during equipment operation; Limit the disturbance of the population with noise and vibration	RD
Contamination of surface water during rehabilitation of the bridge	Suspended solids, organic compounds, lubricants, fuel, solvents, heavy metals, pH value, mineral oils	Rehabilitation of the bridge	Inspection	During rehabilitation works near in the water; Unannounced inspections during works near watercourses	Reduce water pollution caused by equipment operation;	RD
Servicing of construction machinery	Washing vehicles and machinery off-site of in the location sufficiently distant from water bodies;  Servicing vehicles and machinery with oils and lubricants off-site or in an especially arranged location on-site;  Technical adequacy of the servicing location:  • solid, insulating floor or adsorbent layer (sand, gravel, membrane),  • containment barriers allowing enough space for holding fuel over the maximum amount expected on the location at a time,  • emergency fire-fighting kit, sedimentation pool at car wash area.	Construction site and construction base (if applicable)	Inspection	Entire period of machinery operation	Avoid land and water pollution with oil products due to servicing of vehicles and machinery;  Be ready for fire emergency action to promptly localize fire source and minimize material damage	RD
Purchasing of natural construction materials	Purchase of material from the existing suppliers if feasible; Obtaining of extraction license by the works contract and strict compliance with the license conditions; Terracing of the borrow area, backfilling to the exploited areas of the borrow site, and landscape	Quarries	Checking of documents Inspection	During extraction of materials	Limiting erosion of slopes and degradation of ecosystems and landscapes; Limiting erosion of river banks, water pollution with suspended particles and disruption of aquatic life;	RD  LEPL National Agency of Mines of the Ministry of Economy and Sustainable

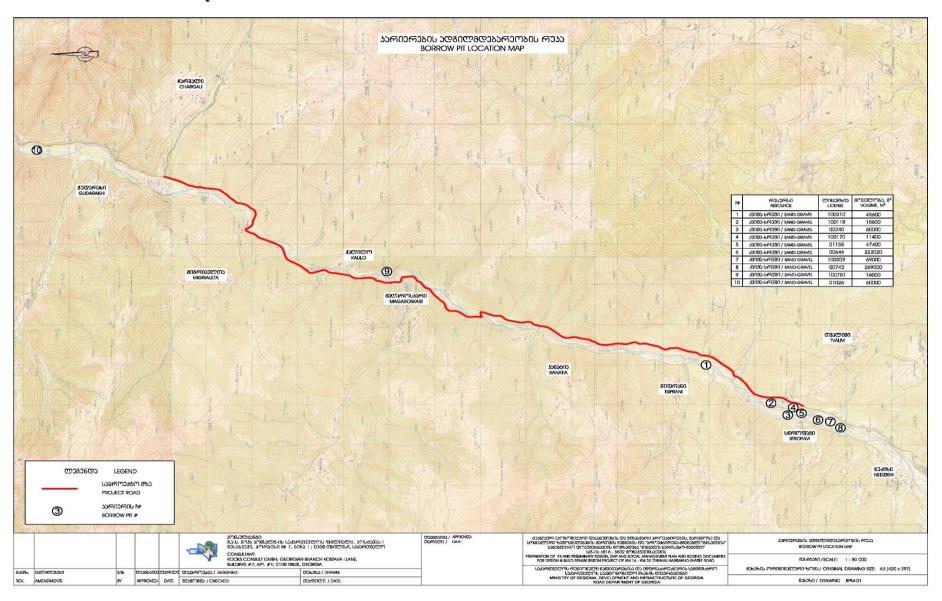
	harmonization; Excavation of river gravel and sand from outside of the water stream, arrangement of protective barriers of gravel between excavation area and the water stream, and no entry of machinery into the water stream.  Marking of the Quarries with warning signs				Protection of cattle and population from damage.	Development of Georgia
Generation of construction waste	Temporary storage of construction waste in especially allocated areas;  Timely disposal of waste to the formally designated locations  Delivery of hazardous wastes for companies with disabilities and disposal licenses	Construction site; Waste disposal site; Proper territories assigned for the waste disposal.	Visual Inspection and inspection of Documentation	During whole construction period	Prevent pollution of the construction site and nearby area with solid waste	RD;  Dusheti Municipality
Accumulation of household waste	Placement of containers to collect household waste on construction site (if exist);  Agreement with local municipalities regarding the regular disposal of household waste	construction site (if exist);	Visual Inspection	During whole construction period	To avoid pollution of soil and water with domestic waste.	RD; Dusheti Municipality
Generation of liquid waste	Arrangement of a toilets matching the sanitary norms on the construction site (if exist);  Arrangement and periodic cleaning of the drainage system for the collection and flow of rain water from the construction site;  Construction of Sedimentation Basin for water used for household and equipment	construction site (if exist);	Visual Inspection	During whole construction period  Frequently In case of strong sedimentation	Prevent the flooding of the construction site and to hinder the activity;  Minimize surface and groundwater contamination	RD
Operation of asphalt-concrete plant	Obtaining of environmental conclusion and adherence to its conditions;  Selection of such a place to install the plant that ensures minimal disturbance of the population by noise, dust and emissions;  Arrangement of several sedimentation basins for the water outflowing from the factory.	Plant Territory	Visual Inspection and inspection of Documentation	During installation and operation period of the plant.	Minimize disturbance of the local population near the construction site;  Minimize air, surface and ground water contamination	RD  LEPL National Environment Agency of the Ministry of Environment Protection and

						Agriculture
Safety of labor	Provision of uniforms and personal protective gear to workers and enforcement of their use;	Construction site	Inspection of the activities	Entire period of construction	Reduce the probability of accidents	RD
	Consistency with the rules of exploitation of the construction equipment and machinery;					
	Presence and use of viable GRM for construction contractor's personnel;					
	Maintenance of adequate sanitary conditions at work bases/sites, including provision of separate WCs if both men and women are employed.					
Works near privately-owned land, buildings and other assets	Avoid trespassing or incidentally damaging of private property (using small-size machinery or manual labor near walls and fences, stockpiling of construction material and waste away from private property; etc.);  In case of unintended damage to private property, quickly restore it to the original or better status;  In case of expected temporary impact on privately-owned property, inform owners upfront and guarantee restoration, acquire written consent of owners for intervention, and promptly restore the damage to the original or better status;	Works near privately- owned land, buildings and other assets	Monitoring and inspection	Entire period of construction	Reduce the probability of damages on private property;  Exclude temporary or permanent violation of ownership and/or user rights on the private property	RD
	If an unexpected need for land take emerges in the cause of works, do not enter the affected site prior to development and full implementation of the Resettlement Action Plan by RD					

# 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?)
Maintenance of the road carriageway and shoulders	Regular collection and disposal of domestic waste left by passengers and driver;  The timely removal of animal wastes on the road	Adjacent territories of the road and side ditches	Inspection	Quarterly	For the protection of the nature.  In order to ensure safe movement of the traffic	RD
Maintenance of drainage ditches	Regular cleaning of culverts from sewage and household waste	Side ditches along the roads	Visual Observation	Quarterly	To maintain drainage system To prevent flooding of the road and avoid water damage	RD
Addressing accidental spillage on the road	Timely localization, collection, decontamination and disposal of waste or emitted liquid or loose cargo waste during a road accident	On the road and on the adjacent territories	Checking	During the road accidents, according to the necessity	To prevent the contamination of the nature	RD Traffic Police
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 environment pollution	Dusheti municipality

Attachment 1: Work site location map and information on the sources of natural construction material closest to the work site



#### Attachment 2:

#### MINUTES

Of public consultation meeting on Environmental Management plan for Rehabilitation of Jinvali-Barisakho-Shatili Road Section km16 - km32

15.11.2016

Dusheti Municipality

Chairman of meeting - Gia Sopadze, Head of Environment Protection Unit, Resettlement and Environment Protection Division

Secretary of meeting - Maya Vashakidze, Environmental Consultant Roads Department of Georgia

Speakers: Gia Sopadze, Maya Vashakidze

Attendees of the Meeting: See attachment 1

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.

Mr. Gia Sopadze, Head of Environment Protection Unit, Resettlement and Environment Protection Division and Ms. Maya Vashakidze, Environmental Consultant were representatives of the Roads Department of Georgia.

Mr. Gia Sopadze and Ms. Maya Vashakidze informed attendees about the Environmental Management Plan of rehabilitation works under Secondary Road Asset Management Project.

Mr. Gia Sopadze opened the meeting and informed attendees about the roads construction on the territory of municipality, he also discussed the meaning of Secondary Roads Asset Management 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.

Nº	Questions	Answers
1.	When will the rehabilitation works of the	The rehabilitation works will start as soon as
		the tender will be announced and the winner

	road start?	will be contracted
2.	How the dust problem be reduced during the rehabilitation works?	The company who will be implementing the rehabilitation works will be obliged to water the site to prevent dust prevention
3.	Will the appropriated safety standards fulfilled?	The construction company will be obliged to follow the WB safety standards

Representatives of Roads Department of Georgia:

Gia Sopadze (signed)

Maya Vashakidze (signed)

შიდასახელმწიფოებრივი მნიშვნელობის ჟინვალი-ბარისახო-შატილის საავტომობილო გზის კმ16 – კმ32 საჯარო განხილვა

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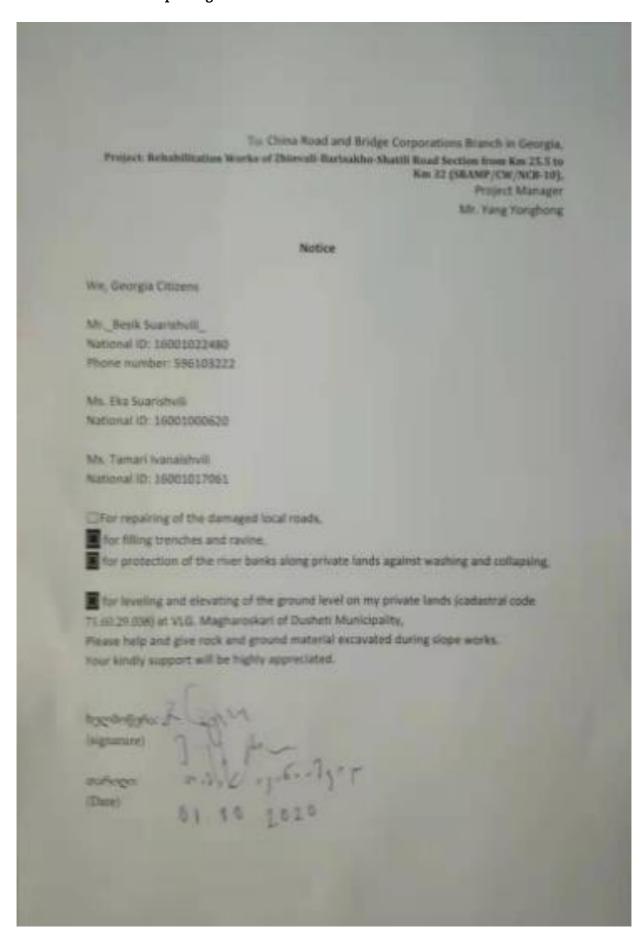
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შენიშვნა	საკონტაქტო ინფორმაცია (მობილური, მისამართი, ელ. ფოსტა )	სახელი, გვარი	Nº
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### Attachment 3: Waste disposal agreement





N 11017/01 24/11/2020

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11017-01-2-202011241125



CHINA ROAD AND BRIDGE CORPORATIONS BRANCH IN GEORGIA

ჩინეთის გზებისა და ხიდების კორპორაციის პროექტის მენეჯერს ბატონ იანჯ იონჯჰონჯს

ბატონო იანგ,

თქვენი წერილის (#CRBC/NCB-10/GOG/2020/004 28.10.2020) პასუხად, რომელიც ეხება ჟინვალი-ბარისახო-შატილის გზის მონაკვეთის სარეაბილიტაციო სამუშაოების განხორციელების მიზნით, სოფელ ჩარგალის მიმდებარედ სახელმწიფოს მფლობელობაში არსებული მიწის ნაკვეთის სანაყაროსთვის გამოყოფის საკითხს. გაცნობებთ, რომ აღნიშნული ფართობი საკადასტრო-აზომვითი ნახაზის საფუძველზე არ მდებარეობს დაცული ტერიტორიებისა და სახელმწიფო ტყის ფონდის საზღვრებში.

ასევე გაცნობებთ, რომ სსიპ გარემოს ეროვნული სააგენტოს ინფორმაციით (წერილი #21/3745 20.11.2020) აღნიშნული ფართობი მდებარეობს მდინარე ფშავის არაგვის (56 კმ.) და მისი შენაკადის - მდინარე ჩარგლულას (8.5 კმ.) მიმდებარედ. შესამაბისად, ფართობზე ან მის ნაწილზე შესაძლებელია ერცელდებოდეს მდინარის წყალდაცვითი ზოლი, რომელშიც "წყლის შესახებ" საქართველოს კანონის (მუხლი 19, 20) და საქართველოს მთავრობის 2013 წლის 31 დეკემბრის #440 დადგენილებით დამტკიცებული "წყალდაცვითი ზოლის შესახებ" ტექნიკური რეგლამენტის (მუხლი 2) თანახმად, მყარდება სპეციალური რეჟიმი წყლის რესურსების დაბინბურების, მოლამვისა და დაშრეტისაგან დასაცავად.

"წყლის შესახებ" საქართველოს კანონის (მუხლი 20. პ.3.) და საქართველოს მთავრობის 2013 წლის 31 დეკემბრის #440 დადგენილებით დამტკიცებული "წყალდაცვითი ზოლის შესახებ" ტექნიკური რეგლამენტის (მუხლი 2. პ.4.) თანახმად, მდინარეების წყალდაცვითი ზოლის სიგანე აითვლება მდინარის კალაპოტის კიდიდან ორივე მხარეს და 75 კილომეტრამდე სიგრძის მდინარეებისათვის დადგენილია 30 მეტრი, ხოლო 25 კილომეტრამდე სიგრძის მდინარეებისთვის - 10 მეტრი.

0159, საქართველო, თხილისი, შარშალ გელოვანის გამზ. Nr6. ტელ. : +(995.32) 2378013 / +(995.32). 2378044

"წყლის შესახებ" საქართველოს კანონით (მუხლი 20. 3.4.) და საქართველოს მთავრობის 2013 წლის 31 დეკემბრის #440 დადგენილებით დამტკიცებული "წყალდაცვითი ზოლის შესახებ" ტექნიკური რეგლამენტით (მუხლი 3-4.) განსაზღვრული წყალდაცვითი ზოლის გავრცელების პირობები, დადგენილი აკრძალვები და სპეციალური მოთხოვნები მხედველობაში უნდა იქნეს მიღებული წყალდაცვით ზოლში მოხვედრილ მიწის ნაკვეთზე დაგეგმილი საქმიანობის განხორციელებისას.

დამატებით გაცნობებთ, რომ გარემოზე ზემოქმედების შეფასებას ექვემდებარება "გარემოსდაცვითი შეფასების კოდექსის" I დანართით გათვალისწინებული საქმიანობა და ამავე კოდექსის II დანართით გათვალისწინებული საქმიანობა, რომელიც სკრინინგის გადაწყვეტილების საფუძველზე დაექვემდებარება გარემოზე ზემოქმედების შეფასებას. ამასთან, გარემოსდაცვითი შეფასების კოდექსის მე-5 მუხლის მე-2 ნაწილის თანახმად, გარემოზე ზემოქმედების შეფასებას დაქვემდებარებული საქმიანობა შეიძლება განხორციელდეს მხოლოდ გარემოსდაცვითი გადაწყვეტილების მიღების შემდეგ.

"გარემოსდაცვითი შეფასების კოდექსის" I დანართის მე-12 პუნქტის თანახმად საავტომობილო გზის რეკონსტრუქცია ან/და მოდერნიზაცია, რომლის მთლიანი მონაკვეთის სიგრძე 5 კილომეტრი ან მეტია, ექვემდებარება გარემოზე ზემოქმედების შეფასებას.

ზემოაღნიშნულიდან გამომდინარე, თუ დაგეგმილია "გარემოხდაცვითი შეფასების კოდექსის" I ან/და II დანართებით გათვალისწინებული საქმიანობა, საჭიროა კოდექსით დადგენილი პროცედურების გავლა. ამასთან, თუ საქმიანობა არ არის განსაზღვრული "გარემოსდაცვითი შეფასების კოდექსის" დანართებით, განმცხადებელი ვალდებულია დაიცვას საქართველოში არსებული გარემოსდაცვითი ტექნიკური რეგლამენტებით დადგენილი მოთხოვნები და გარემოსდაცვითი ნორმები.

პატივისცემით,

გიორგი ხანიშვილი

მინისტრის პირველე მუსიდგელე

### Attachment 4: Borrowing license

MINISTER WALLENANT L

The estimated total quantity of the Object of Purchase 2600 m<sup>3</sup> შქმყოდვის ომიექტის საორიენტაციო სრული შესახყიდი ოდენომა 2600 დ Unitary prices for Object of Purchase: შესყიდვის ომიექტის ერთელო ფასემო:

Type dodo	Price in GEL per m <sup>3</sup> including WIT ex-work galac grafide 1 8° greg-li langgrow ga ტრანსპირტირების გარემე
Concrete B-20 Class F 200 W 6 Rgტnfoo B-20 ggs/lon F 200 W 6	105 ლარი
Concrete B-25 Class F 200 W 6 bgg-rife B-25 gg-phr F 200 W 6	130 ლარი
Concrete B-30 Class F 200 W 6 hgg/r/fin B-30 gg/s/kn F 200 W 6	135 доба
Concrete B-35 Class F 200 W 6 Sphrifto B-35 people F 200 W 6	140 grades

Additional conditions

If the SUPPLIER provides transportation to the place of specified by the SUPPER to the project area covered by the Main Contract, the price will increase by 25 GEL does including VAT for each cubic meter of delowered OBJECT OF PURCHASE.

1 series (3 samples) laboratory conclusion costs 90 GEL, including VAT, from where the BUYER pays GEL 60 and the SUPPLIER GEL 30.

The minimum amount of step order is 6 m<sup>3</sup>.

Delivery cost for all types of concrete is 25 (twenty five) GEL par 1 m<sup>3</sup> including W.C. and the minimum required cost for delivery is 6 m<sup>3</sup> lecturing 150 (one hundred fifty) GEL including VAT.

The object of purchase must be unloaded within 1 hour of its receipt

ინ შემთხეევაში, თუ გამკიდველი უზრუნველყოფს ტრანსპორტირებას წყოდეელის მიერ მითითებულ ადგილამდე მირითადი კონტრაქტით გათვალისწინებული პროექტის ტერიტორიამდე, ფასი გაოზრდება 25 ლარით დღგ-ს ჩათვლით თითიუულ კუბურ შეტრ მიწოდებულ ნასყოდობის საგანზე.

1 სერია (3 ნიმუში) ლახორატორიული დასკუნის ლირებულებაა 90 ლარი დღგ-ს ჩათელით, საიდანაც მყოფევლი ინდის 60 ლარს. ხოლო გამყიდელი 30 ლარს.

ეტაპოზრივი შეკვეთის მინიმალურ რიოდენობად განისაზღვრის 6-8/კნ.

მიწოდების დირებულება ყველა კლასის პეტონისთვის მეადგებს. I 83 -ზე 25(ოცდახუთი) დარს დღე-ს ჩათვლით, ხოლი მიწოდების შესაბრულებლიდ, აუცილებელი მინიმალური დირებულება შეადგებს 6 მ/კნ-ის მიწოდების დირებულებას 150 (ას ირმოცდაათი) ლარს დღე-ს ჩათულით.

მებყიდერ ომიექტის გადმიქვირთვა უნდა მოზდეს მისი მიუქბიდან I სათის მანძილზე

Andgowie gibybrita ga boggibrit, jesticintogradi lagistungger

### SEGNATURES OF THE PARTIES:

Oburhymu toperantigringin

Benggeen.

STATE SEPTE

ogyderênii, mandgydogo

BUYER

CHENA ROAD AND BRIDGE CORPORATION BRANCH IN GEORGIA

Wang Februa

SUPPLIER

Solvelon LLC (I) 439326240 Account No. G2982301 LIC 25443552500 Barle 197 Liberty Hank Bark Code L6970622

გამყოველე ნის კობელ - ს.ე 42936246 გომის ნიპერა GE98L88113138443502000 ნინკი: სს "ლიპერთიბანკი" მამკის კოგი UBINDESS

### Attachment 5: Asphalt plant operation agreement

#### CONTRACT FOR PROVISION OF SERVICES N #CRBC[G]-NCB-10-C-005

მომსახურების გაწვვის ხელმეკრულება N #CRBC(G)-NCB-10-C-005

Thilisi

12/September/2020

cobogentar

12/ boličo/8g/sc/2020

#### 1. PARTIES TO THE CONTRACT

1.1. CHINA ROAD AND BRIDGE CORPORATIONS BRANCH IN GEORGIA, located at Tbilisi, Legal address: Dgebuadze street 18, registered in accordance with the Georgian legislation with identification number 205368396, represented by Wang Fuhua, hereinafter referred to as "CLIENT" and

1.2. "IBOLIA" LTD I/C: 217873031, Adress: 3-rd km. Tskhinvali Roud Gori Georgia, represented by David Goderdzishvili hereinafter referred to as "PROVIDER".

The CLIENT and the PROVIDER, where the context requires, hereinafter referred to collectively as the "Parties" and individually as a "Party".

Whereas China Road and Bridge Corporations (Branch in Georgia) is engaged in project known as Rehabilitation Works for Zhiovali-Barisakho-Shatili Road Section from km 25.5 - km 32 on the basis of contract (hereinafter referred to as "Main Contract") concluded with the Roads Department of Georgia of Ministry of Regional Development and Infrastructure of Georgia:

Whereas the PROVIDER has the capacity to provide service in accordance with Georgian and international standards and the specific requirements of the Main Contract and is willing to render to CLIENT:

Whereas the CLIENT is willing to receive such service from the PROVIDER under terms and conditions as set forth hereunder in order to perform its obligations under the Main Contract;

The Parties agree on following:

### 2. SUBJECT OF THE CONTRACT

2.1. Subject of the Contract is the provision of services Construction of subbase, base, pouring liquid bitumen, sub-hase layer with curse grained porous crushed stone asphalt/concrete, pavement with small grained stiff crushed stone asphalt/concrete and Shoulders with sand/gravel mix) indicated in Annex 1 of this Contract and the design drawings by Provider to the Client, in exchange for payment of the relevant fee (Hereinafter - the "Service").

2.2. The List of BOQ is presented in Annex 1, which is indispensable part of the agreement. The Provider declares that he is aware about the Contract signed between the Client and Roads Department of Georgia regarding construction works of Zhinvali-Barisakho-Shatili Road Section from km 25.5 - km 32. The Provider declares that he is aware about the particularities of the Main Contract in order to execute the works and it.

1. δης όξη γέτης τρόπι όξω έχεις τρόπ

1.1 δοξακού ηθηθούς του δουργόου χαιλιατώρους Ικρόπαρχεπό φοροωρια αιδιαχνίου τουργούου χερίο 10, διαθρένος έχριληδιατήθησενο Τουργούουσημερια μιδιαθθηθένουδου τροτηγότηση βρίκου διατροδήτησημερια μιτρο: 205168196, βιάθνορχηθοίρια μιθή φηλήμο Τούριο, δηθηγούδο "χειαβίδρο" του

1.2 ТКО "пітеров" Б/д 217873031, Впіцаційном Інфійтацієм, запіть пробрасті з'тоўздагем, бр. 3 ді. Брібтацційнем дзерт упаційнійзость Інфіа. Заўдзянійн Тарботустаўдем";

კლიქნტი და მემსრულებელი, სადაც კონტეტტი მოითხოვს, შემდგომში ერთობლივად მიიხსენოება როგორე "მხარგენი" და ინდივიდუალურად "მხარე".

Fisiggallig Rolganik gliglicks go brigglint yntalninger (telphanggenic greeneen) abrifgrogegitt yll poligienbrinstalon-duğreenic gitarii ünüsyyanin ripalmen yayra 15.5,0 - 32,0 telphanggenic riggoniferen yalgroselnibinen ylephat golariyliğinini geograpiya yralğılağırılı üğüsülelenig golariyliğinini geograpiyen yralğılağırılı üğüsülelenig (Düşşirilin önbiqlingliyene, fingining "önfinasogni yralğılağırı");

golonguli ligibirgegigges ająk ligiudęgiggenius, gitringliggegini lindustrytigiais guliga tupirioggeniu go lugitimaterinium luguligatigijaisa go definacion grafijirodjoni tilgango gyfin devotengijaniu typazutetuogi go Prografini jengičjonal muludofredevidestumpriu:

ვინაიდან კლიენტი ვალდენულია ინარგენლის ამ მიმსახურებით მემარულენლისგან იმ პირიბებით, რობლებიც განსაზლერულია ამ ხელმეკრულებით გათვალისწინებული ვალდებულებების მესასრულებლად.

lltuრეები თანხმდებიან შემდეგზე:

2. bygribyringgyfinis hayatin

2.1. Ingertyjergephra tagatos trettobejrijskot tretragijas (taggrinjeria gygas gytot qu taggrinjeria trypa gytot tettigigijem tadgitom, antigagin trotigijemi gydota, antigagingato gentrojato degentrojato / bytoticam, djaggitomi da tagetyjemi federali tettigicami, dingentroja di togetyjemi gentrojato gotoda i - 30 qui trettigijemi tregitomi degentrojatomi potodajatomi i - 30 qui trettigijemi pogotogot tretigijemi (tretigijemi).

2.2. Καπαχβικόντης θειμησενόχου του θειμήσερει φιδούσε 1 θει Απόρχειη εδ αρχθηχήσερολού χιθηνικόσε δοβειού βικόσουρχόλι θηλλόσουρχήσει εφαιρόλι είναι δοδουχεί χέπόσεται χετηδήλια φα Ιωρχέσδουδουργει χόρου φιβολήδοθρόλι θειδεί φιαρχέσμει αρχέσχησει συπόλλη επόρχειη βορία η η υπορεικτώντωτο Τωβοριού χότο δειδηλοτηδός δηλλόσησηδοριο 25.5χδ - 32χδ Ιωθηδήδρον Ιωθηλιστηδός δηλλόσησηδοριο εγδαρχόλι είναι δοδουχείς χέποδουρει ο δικόσουρο — χειδηλοφγείο δοδουχείς χέποδουρει ο δικόσουρο — χειδηλοφγείο

1

organization related to Anti-Corruption Laws regardless of whether the conduct relates to this Agreement.

10. [B] მხარე თანახმაა დაუყოვნებლივ აცნობოს [A მხარეს], თუკი შეიტყობს, რომ მას იძიებს ნებისმიერი სააღსრულებო ან მარეგულირებელი ორგანო, სამთავრობო ორგანო, საერთაშორისო დაწესებულება, ფასიანი ქაღალდების ბირცა ან არასამთავრობო ორგანიზაცია, რომელიც დაკავმირებულია რაიმე საქმიანობასთან, ქეთანბმება; უფრო მეტიც, [მხარე B] დაუყოვნებლივ შეატყობინებს [A მხარეს], თუ მას ეცოდინება ნებისმიერი სააღსრულებო ან მარეგულირებელი სააგენტოს, სამთავრობო ორგანოს, საერთაშორისო ინსტიტუტის, ფასიანი ქაღალდების გადელის ან არასამთავრობო ორგანიზაციის მიერ ანტიკორუფეიულ კანონმდებლობასთან დაკავშირებული გამოძოების შესახებ, მიუხედავად იმისა ქცევა ენება თუ არა წინამდებარე შეთანხმებას.

Consultation Hotline: 0086-10-82017905

საკონსულტაციო ცხელი ხაზი: 0086-10-82017905

E-mail: compliance@ccchd.en

ელ-ფოსტა: compliance@cccclut.cn

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