

Semi-Annual Environmental Monitoring Report

#12 Semestral Report

Reporting period: January - June 2024

July 2024

GEO: Construction of Khevi-Ubisa Section (E60 Highway Route), F2 Project

Financed by the Asian Development Bank
Project Number: 49257-001 Loan No 3715 - GEO

Prepared by: Roads Department of the Ministry of Regional Development and Infrastructure of Georgia for the Asian Development Bank

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Abbreviations

ADB	Asian Development Bank
BP	Batching Plant
CC	Construction Contractor
CSCS	Consultancy Services for Construction Supervision
CSC	Construction Supervision Consultant
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMR	Environmental Monitoring Report
GRM	Grievance Redress Mechanism
HNRB	Hunan Road & Bridge Construction Group Co
MAC	Maximum Admissible Concentration
MoEPA	Ministry of Environmental Protection and Agriculture
NFA	National Forest Agency
NOC	No Objection Certificate
PIU	Project Implementation Unit
RD	Road Department
Row	Right of Way
SC	Supervision Consultant
SDA	Spoil Disposal Area
SDS	Spoil Disposal Site
SEMP	Site-Specific Environmental Management Plan
SPS	Safeguard Policy Statement
SFF	State Forest Fund
SAEMR	Semi Annual Environmental Monitoring Report
PS	Performance Standards of IFC
PPT	Personnel Protective Technologies
PPE	Personnel Protective Equipment
NCR	Non-Conformance Report
NCN	Non-Conformance Notice

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1. INTRODUCTION

1.1 Preamble

1. This report presents the semi-annual review of environmental monitoring for the E-60 East-West Highway (Khevi-Ubisa section) Improvement Project, covering the period from January to June 2024.
2. This report is the 12th Semi-Annual EMR for the E-60 highway (Khevi-Ubisa section) improvement project.

1.2 Headline Information

3. The project is currently in Phase 3, the Defect Notification Period (DNP). Major road works have been completed, and the road has been open to traffic since October 28, 2023.
4. The project involves the construction of a new road section of the E-60 highway located in Imereti Region of Central Georgia. Section F2 forms the Khevi - Boriti portion of the Khevi-Ubisa-Shorapani-Argveta section of the E-60 highway. The project involves the construction of 20 tunnels, 35 bridges, 2 interchanges, 6 underpasses, 4 animal corridors and 19 culverts.
5. The length of the Project Road is given below:
 - 1) Right lane (TA - Tbilisi-Argveta direction) -12.197km ;
 - 2) Left lane (AT - Argveta -Tbilisi direction)-12.193k
6. This F2 section, new alignment runs through the scattered population of various villages and the most impacted by the new alignment are Khunevi and Vertkvichala settlements. The alignment runs through mountainous area characterized by heavy impediments during wintertime, basically in the form of snow and frost and geologically complex area with mixed forest and riverine ecosystems.
7. The Project outline (km 0+000 – 12+197) from Khevi to near Boriti Police station:

Classification of road:	International highway
Design speed:	100 km/ hr.
Speed Limit:	80 km/ hr.
Road length:	12.197 km
Road width:	27 m
Numbers of lanes:	4 lanes

8. The official commencement date for the project was set on July 22, 2019. The original completion date was scheduled for July 6, 2022. Extensions for the works were granted, first up to May 31, 2023, and subsequently to October 28, 2023.
9. The road has been opened for the traffic on 28-10-2023: however, contractor is continuing the activities to complete the outstanding works of the Project.

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

10. E-60 highway connecting the Black Sea coast to the capital of Georgia passes through a mountainous area 600-850 meters above the sea level. The Khevi-Argveta alignment is located on the mountainous area, excluding the last 10-12 km section, which is located on the flat terrain. The proposed highway is located on the complex geological and geographical area and crosses numerous small mountain rivers and ravines. Mixed forests, typical to this climate zone, cover the slopes of the mountains.
11. The existing 2-lane road passes through difficult mountainous terrain paralleling first the river Rikotula and then, the river Dzirula and consists of multiple bridges and several tunnels.
12. The government of Georgia has requested ADB to finance for the construction of the Khevi-Ubisa section of E-60 highway. The project is classified as Category A Project – Environment safeguard under ADB SPS 2009.
13. The Project involves the construction of a new road section of the E-60 highway located in Imereti Region of Central Georgia (Figure 1). Proposed Section F2 forms the Khevi - Boriti portion of the Khevi-Ubisa-Shorapani-Argveta section of the E-60. The length of the Project Road is given below:
 - 1) Right lane (TA - Tbilisi-Argveta direction) -12.197km ;
 - 2) Left lane (AT - Argveta -Tbilisi direction)-12.193km.
14. Total twenty tunnels 20 with length 9110.93 meters are proposed including:
 - 9 tunnels on carriageway TA (two existing tunnels to rehabilitate) with total length of 4,340 m;
 - 11 tunnels on carriageway AT with total length of 5020 m.
15. The project road also includes (35) bridges, of which 18 bridges on TA carriageway with total length of 4210 m and 17 bridges on AT carriageway with total length of 4186 m.
16. Technical features of the alignment considered during detail design include:
 - Design speed – 100 km/h (speed limit 80 km/h);
 - Number of traffic lanes – 4;
 - Width of traffic lane – 3.75 m;
 - Width of each carriageway – 7.5 m;
 - Width of paved shoulder (emergency lane) – 2.5 m;
 - Width of verge – 1.0 m;
 - Width of central reserve – 5.0 m;
 - Width of paved shoulder at the central reserve – 1.0 m;
 - Total width of each paved platform – 11.0 m;
 - Width of road bed – 27.0 m;
 - Carriageway cross-fall on straight sections – 2.5%;
 - Minimum radius of horizontal curve – 400 m;
 - Maximum longitudinal gradient– 4%;
 - Minimum convex curve – 15 000 m;
 - Minimum concaved curve – 15 000 m;
 - Number of Interchanges- 2.
17. In addition to that, project includes 6 underpasses for rural roads, 4 animal corridors, and 19 culvers.

Figure 1: Location of Project Area



18. The project is classified as **category A** for the environment under ADB's Safeguard Policy Statement (2009). Environmental Impact Assessment (EIA) was prepared in May 2018 and disclosed on ADB website in September 2018.
19. Road Department of Georgia submitted an Environmental Impact Assessment of Section F2 of the Khevi-Ubisa-Shorapani-Argveta Road (E60 Highway) to the MoEPA in May 2018. The Environmental Impact Assessment (EIA) approval was received from the MoEPA on November 19, 2018.

2.2 Project Contracts and Management

20. Information related to the project execution is given in Table 1:

Table 1: Project information up to June 2024

Employer	Road Department of Georgia, Ministry of Regional Development and Infrastructure of Georgia
Funding Source	Asian Development Bank (ADB)
The Engineer	UBM
Contractor	Hunan Road & Bridge Construction Group Co (HRBCC), Ltd.
Contract Number	KURP/CW/OCB-01
Contract date	November 20, 2018
Commencement Date of Works	July 22, 2019
Contract Period original	1080 days
Contract period after extension	1624 days
Original Completion date	July 06, 2022
Completion date after first extension of time	May 31, 2023
Completion date for taking over works	October 28, 2023
Full section of the road opened for road users	October 28, 2023
Defects Notification Period	2 years
Contract Price (GEL)	GEL 732,296,478.02(BID PRICE INCLUDED VAT18%)

21. Summary of civil works contracts and works' progress is summarized in Table 2. All awarded contracts included EMPs cleared by ADB and any conditions of applicable national EIA clearance. EMP included as appendix X of technical specifications and Section 3.4 (Scope of EIA) of General Report Document (COD# GP GEO2000 GE RP001) of the F2 project.

Table 2: Summary of Civil Works Contracts and works' progress (June 2024)

Package	Scope	Contractor	Signed	Approval Date			CC Environmental personnel		Civil Work		Progress as of	
				SSEMP	COVID-19 HSMP	ERP	Environmental officer	Health and Safety officer	Start	End	31 Dec 2023	30 Jun. 2024
F2	Construction of Khevi- Ubisa Section F2 of East West Highway 1. Right lane (TA - Tbilisi-Argveta direction) - 12.197km ; 2) Left lane (AT - Argveta -Tbilisi direction)- 12.193km.	HNRB	20 Nov 2018	13 Aug 2019	18 Nov 2020	18 Nov 2020	Levan Inashvili	Victor Rusetsky	22July 2019	October 28, 2023	100%	100%

Note: The Month/Years in brackets are planned schedule.

COVID-19 HSMP = COVID-19 Health and Safety Management Plan, ERP = Emergency Response Plan, SSEMP = site-specific environmental management plan

22. TOR for the CSCS Contract contains the following tasks for the environmental specialists:
- Ensure that the provisions of the approved Environmental Management Plan are reflected in the Contractor's Specific Environmental Management Plan (SEMP) prior to its acceptance by the Engineer, the Employer and ADB, and thereafter ensure that the Contractor complies in every respect with the provisions of the SEMP;
 - Develop an environmental auditing protocol for the construction period, regularly supervise the environmental monitoring, and submit periodic reports based on the monitoring data and laboratory analysis reports. These reports will be included as an annex to the Consultant's Monthly Report
 - Develop a program for hands-on training of Contractor's staff in implementing the SEMP.
23. Obligation of the contractor, to safeguard, mitigate adverse impacts and rehabilitate the environment is addressed through environmental provisions in the FIDIC conditions of contract for construction, MDB harmonized addition- June 2010 and special clauses included in the contract related to environment, especially, section 116 (pollution) and appendix X of technical specifications. FIDIC clause 4.18 (protection of environment), 4.8 (safety procedures), 6.4 (labor laws), 16.3 (cessation of work/ remedial work), 2.3 b (employer's personnel), 4.21 (progress report) are important in this regard.
24. The Contract for CSCS was awarded to ULUSLARARASI BİRLEŞMİŞ MÜŞAVİRLER MÜŞAVİRLİK HİZMETLERİ A.Ş (UBM) in May 2019 for three phases of the project:
- Phase 1: Design review, to be completed in a period of three months and submitted to RD
 - Phase 2: Construction supervision and contract administration. The construction period is for 1080 days.
 - **Phase 3: Defects Notification Period, two years. Current state of the Project.**
25. Contact details of ADB, CC, SC and RD representatives are given in Table 3. however, the contact details can be available on request.

Table 3: Main Environmental staff of ADB, CC, SC and RD

Organization	Position	Name
ADB	Senior Transport Specialist	Zaigham Naqvi
	Senior Environmental Specialist (Safeguard)	Ninette Pajarillaga
	ADB National Environmental Consultant	Name: Giorgi Kobaladze
	Associate Safeguards Officer Georgia Resident Mission	Nino Nadashvili
Client/ Borrower	Environmental Specialist of RD	Luiza Bubashvili
	Head of Environmental and Social Division of RD	Mikheil Ujmajuridze
	Head of Environmental Unit of RD	Gia Sopadze
	H&S Specialist of RD	Giorgi Kochiashvili
CSC	International Environmental Specialist	Kashif Bashir

	Environmental Expert	Ketevan Nadirashvili
Contractor	Project Manager	Dai_Xiangyang
	Environmental Specialist	Levan Inashvili

26. Status of compliance with environmental safeguards related covenants in the Project's Loan Agreement signed between Government of Georgia and ADB on October 05, 2018¹ is summarized in Table 4.

Table 4. Loan Agreement Compliance Status

Schedule	Paragraph	Covenant	Compliance Status
4	3	Procurement: The borrower shall not be awarded any works contract which involves environmental impacts until: (a) the appropriate authority of the Borrower has granted the final approval of the EIA; and (b) the Borrower has incorporated the relevant provisions from the EMP into the Works contract.	Complied EIA approved by MoEPA on 19-11-2018 by MoEPA. All awarded contracts included EMPs cleared by ADB and any conditions of applicable national EIA clearance. EMP included as appendix X of technical specifications and Section 3.4 (Scope of EIA) of General Report Document (COD# GP GEO2000 GE RP001) of the F2 project.
4	6	Environment The borrower, through the Implementing Agency, shall ensure that the preparation, design, construction, implementation, operation and decommissioning of the project and all project facilities comply with a. All applicable laws and regulations of the borrower and project executing agency related to environment health and safety b. The environment safeguard; and c. All measures, and requirement set forth in the EIA, the EMP, and any corrective or preventive actions set forth in the Monitoring Reports	Being complied with Currently, Project is at phase 3, Defect notification period. Full section of the road has been opened for traffic on 28-10-2023. Contractor is involved in rehabilitation works for the disturbed area. All applicable laws and regulations are being followed for permits from MoEPA and Ministry of Economy and Sustainable Development (MoESD). Contractor obtained all the permits from the relevant Ministries.
4	22	Safeguard- Related Provisions in Bidding Documents and Works Contracts: Borrower, through the Implementation Agency, shall ensure that all bidding documents and contracts to works contain provisions that require contractor to a. Comply with the measures relevant to the contractor set forth	Being complied with EMP as a part of bidding documents and budget allocated for environment and social measures Preventive measures and corrective actions are being undertaken by the contractor to comply with the measures set forth in the EIA and

¹ <https://www.adb.org/sites/default/files/project-documents/49257/49257-001-lna-en.pdf>

		in the EIA, EMP, and RP (to the extent they concern impacts on affected people during construction) and any corrective or preventive actions set forth in a safeguard monitoring report b. Make available a budget for all such environment and social measures c. Provide the borrower with written notice of any unanticipated environment or resettlement risk or impacts that arise during construction, implementation, or operation of the project that were not considered in the EIA, the EMP, and the RP	EMP. Contractor is rehabilitating the primary facilities including campsite, Batching plants, and dumpsites.
4	23	<u>Safeguards Monitoring and Reporting</u> The borrower shall cause the Project executing Agency and Implementing Agency to do the following: a. Submit semi-annual safeguard monitoring reports to ADB during the construction of the Project until its completion, and, thereafter, submit annual reports to ADB during its operation, and disclose relevant information from such reports to affected persons promptly upon submission b. If any anticipated environment and/ or social risk risks and impacts arise during construction, implementation or operation of the project that were not considered in the EIA, the EMP, and the RP, promptly Inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan c. Report any actual or potential breach of compliance with measures and requirements set forth in the EMP or RP promptly after becoming aware of the breach.	Being complied with RD submitting Semiannual monitoring report and all the set forth measures in EIA, Conditions set by MoEPA, and National Legislations are addressed in the SAEMR This is the 12th Semiannual Monitoring Report

27. Under the Contract, the Contractor shall comply with all applicable national and local environmental laws and regulations as well as applicable respective standards under the Contract. The Contractor shall:

- Establish an operational system for managing environmental impacts. The Contractor's environmental engineer conducts daily site inspections,

Environmental violations are identified and recorded, and violation report is sent to management for corrective actions. The management is responsible for issuing correction notice to site supervisor and give target date for correction. The contractor's environmental engineer shall inspect the site at due date and report the correction progress to the management. If the correction is not done properly, penalty will be issued to site supervisors. The consulting engineers also conduct jointly weekly site inspections with Contractor and send weekly environmental report to contractor for correction. The contractor improves the site conditions and reply to the engineer for the corrective actions taken.

- Develop the Specific EMP (SEMP) as well as other location specific and topic specific EMPs upon request by identifying environmental risks arising from the Works, the mitigation measures to be applied, and monitoring to be carried out.
- Implement the required mitigation measures and monitoring
- Take any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the EMP, and
- Submit monthly compliance reports to the engineer.

28. The Contractor Hunan Road & Bridge Construction Group Co Ltd. (HNRB) is responsible for implementation of EMP throughout the project during construction phase. The Supervision Consultant UBM (Engineer) is responsible to: i) monitor the implementation of EMP/SEMP by the Contractor at all its active construction sites and project related facilities; ii) after completion of the construction activities conduct post-construction environmental audit and prepare post-construction environmental monitoring report.
29. Responsibility of management for environmental monitoring and implementation of the SEMP is given to the Environmental Protection Manager Mr. Levan Inashvili. He has direct authority from the Project Manager to give instruction to all site staff regarding environmental issues.

2.3 Project Activities during Current Reporting Period

30. Currently the project is at operation stage. Main construction activities have been completed.

1. Tunnelling:

- TUN-2001-AT completed.
- TUN-2001-TA completed.
- TUN-2002-AT completed.
- TUN-2003-AT completed.
- TUN-2005-AT completed;
- TUN-2005-TA completed
- TUN-2006-AT completed;
- TUN-2006-TA completed;
- TUN-2007-AT completed;
- TUN-2007-TA completed;
- TUN-2008-AT completed;
- TUN-2008-TA completed;
- TUN-2009-AT completed;
- TUN-2009-TA completed;
- TUN-2010-AT completed;
- TUN-2010-TA completed;
- TUN-2011-AT completed;
- TUN-2011-TA completed.

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2. Bridges:

- BRI-2101-AT completed.
- BRI-2101-TA completed.
- BRI-2102-AT completed.
- BRI-2103-AT completed.
- BRI-2104-AT completed.
- BRI-2105-AT completed.
- BRI-2106-AT completed.
- BRI-2107-AT completed.
- BRI-2102-TA completed.
- BRI-2103-TA completed.
- BRI-2104-TA completed.
- BRI-2105 TA completed.
- BRI-2106-TA completed.
- BRI-2107-TA completed.
- BRI-2109-AT completed.
- BRI-2109-TA completed.
- BRI-2110-AT completed.
- BRI-2110-TA completed.
- BRI-2111-AT completed.
- BRI-2111-TA completed.
- BRI-2113-AT completed.
- BRI-2113-TA completed.

- BRI-2114-AT completed.
- BRI-2114-TA completed.
- BRI-2115-AT completed.
- BRI-2115-TA completed.
- BRI-2116-AT completed.
- BRI-2116-TA completed.
- BRI-2117-AT completed.
- BRI-2117-TA completed.
- BRI-2118-AT completed.
- BRI-2118-TA completed.
- BRI-2121 completed.
- BRI-2122 completed.
- BRI-2123 completed.

3. Culvert:

- CUL-2203 Culvert completed.
- CUL-2204 Culvert completed.
- CUL-2205 Culvert completed.
- CUL-2208 Culvert completed.
- CUL-2209 Culvert completed.
- CUL-2210 Culvert completed.
- CUL-2213 Culvert completed.
- CUL-2214 Culvert completed.

4. Retaining Wall:

- 2512# Retaining wall completed.
- 2521# Retaining wall completed.
- 2522# Retaining wall completed.
- 2523# Retaining wall completed.
- 2510# Retaining wall completed.
- 2501# Retaining wall completed.
- 2502# Retaining wall completed.
- 2505# Retaining wall completed.
- 8# bridge Retaining wall (variations) completed.

5. No. 1 Interchange:

- Earthwork excavation completed;
- 2521&2523# Retaining wall completed.
- 2301#Underpass completed.

6. No. 2 Interchange:

- Earthwork excavation completed; Subgrade filling completed.

31. Currently contractor is building the secondary access roads, interchange, and rehabilitation works for the disturbed sites. Progress of works carried out is summarized in table 5 below:

Table 5: Construction progress during reporting period (January – June 2024)

WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
Bill No.2 Setting Out and Site Clearance					
2.1 Basic topography and detailed setting out					

For main road	km	24.391	24.391	100	
For secondary roads	km	3.06	2.8	91	
Interchanges	km	3.53	3.53	100	
Demolitions	mc	55561	55561	100	
Cutting trees of more than 0.1 m diameter	Lump Sum	1	1	100	
Bill No.3 Earthworks					
Topsoil removal	m3	38206.0	38206.0	100	
Excavation of soil mechanically	m3	420950.0	419564.5	100	
Excavation of soil by means of blasting	m3	561240	561240	100	
Construction of embankment	m3	564550.0	564550.0	100	
Construction of dividing strip	m3	29660.0	18756.0	100	
Slope protection	m3	18720	15574	98	
Bill No.4 Culverts and drainage					
Box Culvert – 2.0m X 2.5m	Linear meter	805	805	100	Under Construc tion
Box Culvert – 4.0m X 2.5m	Linear meter	83	83	100	
Box culvert on local roads	m³	681.63	0	60	
Bill No.5 Bridges 35 sets					
BRI 2101 TA	set	1	1	100	
BRI 2101 AT	set	1	1	100	
BRI 2102 TA	set	1	1	100	
BRI 2102 AT	set	1	1	100	
BRI 2103 TA	set	1	1	100	
BRI 2103 AT	set	1	1	100	
BRI 2104 TA	set	1	1	100	
BRI 2104 AT	set	1	1	100	
BRI 2105 TA	set	1	1	100	
BRI 2105 AT	set	1	1	100	
BRI 2106 TA	set	1	1	100	
BRI 2106 AT	set	1	1	100	
BRI 2107 TA	set	1	1	100	
BRI 2107 AT	set	1	1	100	

BRI 2108 TA	set	1	1	100	
BRI 2109 TA	set	1	1	100	
BRI 2109 AT	set	1	1	100	
BRI 2110 TA	set	1	1	100	
BRI 2110 AT	set	1	1	100	
BRI 2111 TA	set	1	1	100	
BRI 2111 AT	set	1	1	100	
BRI 2112 TA	set	1	1	100	
BRI 2112 AT	set	1	1	100	
BRI 2113 TA	set	1	1	100	
BRI 2113 AT	set	1	1	100	
BRI 2114 TA	set	1	1	100	
BRI 2114 AT	set	1	1	100	
BRI 2115 TA	set	1	1	100	
BRI 2115 AT	set	1	1	100	
BRI 2116 TA	set	1	1	100	
BRI 2116 AT	set	1	1	100	
BRI 2117 TA	set	1	1	100	
BRI 2117 AT	set	1	1	100	
BRI 2118 TA	set	1	1	100	
BRI 2118 AT	set	1	1	100	
BRI 2121 L1	set	1	1	100	
BRI 2122 L2	set	1	1	100	
BRI 2123 LR1	set	1	1	100	
Bill No.6 Tunnels 20 sets					
TUN 2001 TA	set	1	1	100	
TUN 2001 AT	set	1	1	100	
TUN 2002 AT	set	1	1	100	
TUN 2003 TA	set	1	1	100	
TUN 2003 AT	set	1	1	100	
TUN 2004 AT	set	1	1	100	
TUN 2005 TA	set	1	1	100	

TUN 2005 AT	set	1	1	100	
TUN 2006 TA	set	1	1	100	
TUN 2006 AT	set	1	1	100	
TUN 2007 TA	set	1	1	100	
TUN 2007 AT	set	1	1	100	
TUN 2008 TA	set	1	1	100	
TUN 2008 AT	set	1	1	100	
TUN 2009 TA	set	1	1	100	
TUN 2009 AT	set	1	1	100	
TUN 2010 TA	set	1	1	100	
TUN 2010 AT	set	1	1	100	
TUN 2011 TA	set	1	1	100	
TUN 2011 AT	set	1	1	100	
Bill No.7 Equipment for Tunnels 20 sets					
TUN 2001 TA	set	1	1	100	
TUN 2001 AT	set	1	1	100	
TUN 2002 AT	set	1	1	100	
TUN 2003 TA	set	1	1	100	
TUN 2003 AT	set	1	1	100	
TUN 2004 AT	set	1	1	100	
TUN 2005 TA	set	1	1	100	
TUN 2005 AT	set	1	1	100	
TUN 2006 TA	set	1	1	100	
TUN 2006 AT	set	1	1	100	
TUN 2007 TA	set	1	1	100	
TUN 2007 AT	set	1	1	100	
TUN 2008 TA	set	1	1	100	
TUN 2008 AT	set	1	1	100	
TUN 2009 TA	set	1	1	100	
TUN 2009 AT	set	1	1	100	
TUN 2010 TA	set	1	1	100	
TUN 2010 AT	set	1	1	100	
TUN 2011 TA	set	1	1	100	

TUN 2011 AT	set	1	1	100	
Bill No.8 Road Pavement					
Concrete pavement-Main Road	km	24.391	24.391	100	
Sand and gravel mix pavement-local road	m3	2629	2400	91	
Asphalt pavement, secondary road-1	km	1.5	1.2	80	
Construction of market area	m3	2645	2645	100	
Bill No.9 Road furniture					
Main roads	Km	24.391	24.391	100	
Secondary roads	km	3.06	3.06	100	
Interchanges	km	3.53	3.53	100	
Bill No.10 Interchanges					
Interchange-1	km	1.4	1.4	100	
Interchange-2	km	1.7	1.7	100	
Interchange-3	km	0.43	0.43	100	
Bill No.11 Relocation of Utilities					
Reconstruction of 35KV line	Lump Sum	1	1	100	
Reconstruction of 10KV line	Lump Sum	1	1	100	
Reconstruction of 0.4KV line	Lump Sum	1	1	100	
New construction power line	Lump Sum	1	1	100	
Bill No.12 Greenery					
Seeding of perennial grass, watering and further treatment	Sq.m	123339.00	123339.00	100	
Planting of shrubs, watering and further treatment	Sq.m	22800.00	22800.00	100	
Bill No.13 Retaining walls 16 sets					
Main roads	piece	12	12	100	
Interchange-1	piece	2	2	100	
Interchange-2	piece	1	1	100	
Interchange-3	piece	1	1	100	
Construction of Rip rap on CL203 RWA-2525	piece	1	1	100	
Bill No.14 Lighting					

Main roads	km	24.391	24.391	100	
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32. During the reporting period, construction of secondary roads and rehabilitation works were carried out. Overall progress of works is 100 %.

2.4 Information on personnel working on construction site

33. Overall staff hired by the contractor up to June 2024 is given below (Table 6):

- Total number of employees - 210
- Foreign staff – 66
- Local Georgian staff - 144
- Number of working hours – 9
- Number of shifts – 1
- Workers in night shift- 0

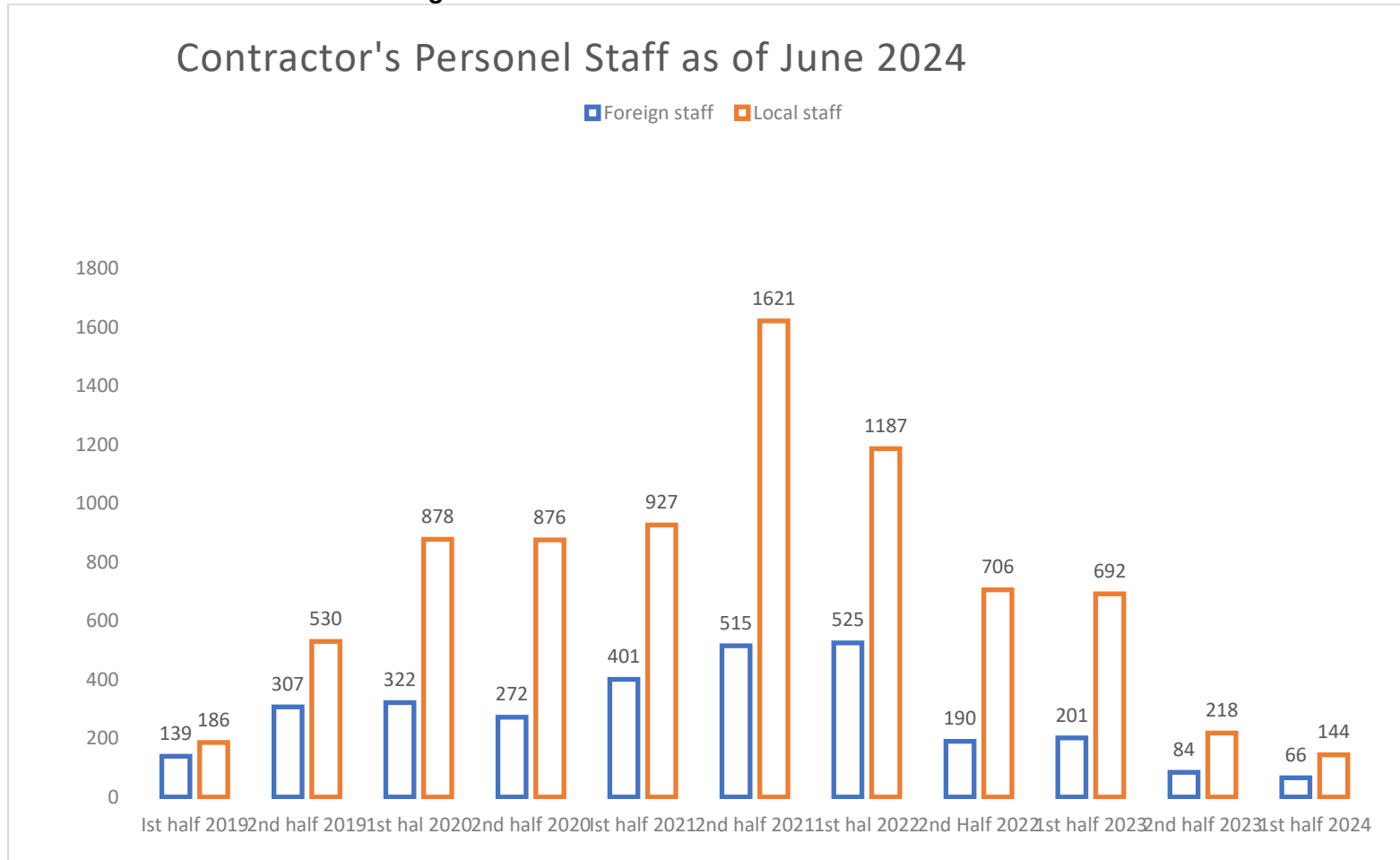
Table 6: Information of personnel working at site during reporting period (June 2024)

#	Position	HNRB		Subs		Total
		Foreigner	Local	Foreigner	Local	
1	Project Manager	1	0	0	0	1
2	Site Manager	2	0	0	0	2
3	Construction Engineer	4	2	0	0	6
4	Engineer staff	1	0	0	0	1
5	Technical office	1	0	0	0	1
6	Technicians	0	6	0	0	6
7	Skilled Labor	10	42	21	12	85
8	Unskilled Labor	6	22	0	0	28
9	Driver	0	23	0	0	23
10	Operator	1	10	0	0	11
11	Designer	2	0	0	0	2
12	Finance & Administration	6	2	0	0	8
13	HSE Manager	1	0	0	0	1
14	HSE Officers	1	2	0	0	3
15	Environmental Manager	0	1	0	0	1
16	Foreman	2	6	2	4	14
17	Repairman	2	6	0	0	8
18	Secretary	0	1	0	0	1
19	Security	0	2	0	0	2
20	Mechanical Department	2	1	0	0	3

21	Community Liaison Officers	1	2	0	0	3
Total		43	128	23	16	210

34. The graphical presentation of number of foreign and local staff hired by the contractor is shown in the figure 2.

Figure 2: Contractor's Personnel as of June 2024



35. It is evident from the graph that there is a significant change in number of total staff from the previous reporting period and the number of staff is the lowest as the project is completion stage and contractor has started demobilization activities. The ratio of the local to foreign workers is 72 % local and 28% foreign workers.

2.5 Description of Any Changes to Project Design

36. No change in the project design was approved during the reporting period.

2.6 Description of Any Changes to Agreed Construction Methods

37. No changes to the agreed construction methods were approved during the reporting period.

3. ENVIRONMENT SAFEGUARD ACTIVITIES

3.1 Description of Environment Safeguards Activities

38. As the project is in operation phase at DNP stage, site visits are being carried out. Engineer's environmental specialists check that the rehabilitation works for rehabilitation of dumpsites and other disturbed area and construction activities for secondary roads are in compliance with the requirements of EMP and conditions of contracts.
39. International Environmental expert visited the site twice in March 2024 and April 2024. Several site visits were carried out with the contractor's Environmental specialist to address the leftover waste/ debris at the site, decommissioning of campsites, batching plants, crushing plants, parking areas, steel factor and handing over the land to the owners by signing of agreements, if required.
40. In case the non-compliance is detected during the site visit (with the photo evidence), it is recorded, and the Contractor is being informed in written, in order to take corrective actions.
41. The Engineer's environmental specialists prepare the semi-annual reports that are being submitted to the RD. These reports depict the ongoing construction activities, environmental issues and the status of compliance.

3.2 Site Inspections/Audits

42. The project is in the operation stage and the DNP phase. Joint inspections were carried out by the engineer's environmental experts and Contractor's environment team. During the sites visits the following sites were inspected during the reporting period:
- Office and living campsites of the Contractor
 - Access roads
 - Spoil Disposal Areas
 - Tunnels
 - Bridges
 - Interchanges;
 - Concrete plants
 - Steel Workshop
 - Main Workshop
 - Other disturbed area in the Project vicinity
43. Based on the safeguard policy requirements of ADB and Government of Georgia, to conduct an external independent monitoring and assessment of the projects' environmental compliance and reporting, the qualified External Environmental Monitoring Firm was engaged for all Environment Category A Road projects in Georgia. The objectives of external environmental monitoring are to provide an independent review and assessment of (i) the achievements of Georgian Transport Sector projects in environmental safeguards objectives and principles, (ii) the effectiveness, impact and sustainability of taken measures to minimize, mitigate and/or compensate environmental impacts, (iii) the necessity of further mitigation measures if any, (iv) to

identify strategic lessons for future policy formulation and planning, and (v) capacity building in environmental safeguards.

44. The external environmental monitoring firm (EEMF) "Ecospectri" Ltd conducted the site inspection on 01.05.24. The representatives of the EEMF "Ecospectri" Ltd on behalf of RD conducted the site inspection to verify compliance with the Contractor's Environmental Management Plans (EMPs) and progress toward the expected outcomes. The EEMF will document the monitoring results, identify the necessary corrective actions, and reflect them in a corrective action plan.
45. ADB Geo safeguard review mission conducted site visit of F2 project in March 2024 and in June 2024. The status for the recommended actions by the ADB representatives related to environmental aspect is given below in the Table 7.

Table 7: ADB Geo Safeguards Review Mission CAP

#	Corrective Action Required	Responsibility	Status
2	Conduct inventory and photo-documentation of remaining areas/sites to be rehabilitated and restored by 1 May 2024, special attention needs to be paid to SDA 17 site rehabilitation and restoration;	RD, PMCSC	Completed. Waste inventory report submitted to RD in May 2024 by PMCSC. During the reporting, Contractor has completed the recultivation/rehabilitation works for site # 9, 15, 16,17, 12, (For detail please see Table 9, dumpsite section).
3	Prepare post-construction environmental audit report to include written agreements between contractor and landowner(s) should there be facilities or improvements that will be retained after contractor demobilization; Submit post-construction environmental audit report by 30 September 2024	RD/ CSC	In progress First draft of the post construction audit was submitted to RD in April 2024 and this will be updated in September 2024 for submission to ADB.
4	Continue submission of the SAEMR to ADB until the project completion report is issued.	RD/ CSC	Noted and ongoing This is the 11 th Semiannual EMR report.

46. Status of obtaining the required environmental permits and approvals from MoEPA and other relevant authorities is given in the Table 8. Contractor has obtained all the required permits required at this stage and nothing is pending related to approvals.

Total Required= 63

Total Obtained = 63

Progress = 100 %

Table 8: Status of required permits/approvals during Project life

Issue	Status	Approving Authority	Submission & Approval Dates
Re cultivation Plan for the Main Camp	Submitted/Approved	MEPA	25.04.2019
			12.06.2019
Re cultivation Plan for the Batching Plant #2	Submitted/Approved	MEPA	25.04.2019
			12.06.2019

Re cultivation Plan for the Batching Plant #1	Submitted/Approved	MEPA	03.06.2019
			05.09.2019
Re cultivation Plan for the Batching Plant #3	Submitted/Approved	MEPA	06.08.2019
			05.09.2019
Re cultivation Plan for the Sub camp #1	Submitted/Approved	MEPA	03.06.2019
			05.09.2019
Re cultivation Plan for the Sub camp #2	Submitted/Approved	MEPA	03.06.2019
			05.09.2019
Re cultivation Plan for the Sub camp #3	Submitted/Approved	MEPA	03.06.2019
			05.09.2019
Re cultivation Plan for the Sub camp #4	Submitted/Approved	MEPA	03.06.2019
			05.09.2019
Waste Management Plan for MEPA	Submitted/Approved	MEPA	30.09.2019
			25.10.2019
Technical Inventory Report about Stationary Sources of Ambient Air Pollution and Emissions of Pollutants Emissions for the Batching Plant #2	Submitted/Approved	MEPA	25.04.2019
			19.06.2019
Technical Inventory Report about Stationary Sources of Ambient Air Pollution and Emissions of Pollutants Emissions for the Batching Plant #1	Submitted/Approved	MEPA	03.06.2019
			07.08.2019
Technical Inventory Report about Stationary Sources of Ambient Air Pollution and Emissions of Pollutants Emissions for the Batching Plant #3	Submitted/Approved	MEPA	31.08.2019
			03.09.2019
Technical Conditions for Water abstraction from the Surface Water Objects for the Batching Plant #2	Submitted/Approved	MEPA	25.04.2019
			02.08.2019
Technical Conditions for Water abstraction from the Surface Water Objects for the Batching Plant #1	Submitted/Approved	MEPA	18.06.2019
			10.08.2019
Technical Conditions for Water abstraction from the Surface Water Objects for the Batching Plant #3	Submitted/Approved	MEPA	06.08.2019
			03.09.2019
Screening document for the placement of fuel tanks/refueling station	Submitted/Approved	MEPA	18.06.2019
			09.08.2019
Design of the Main Camp	Submitted/Approved	RD/MEPA	05.03.2019
			15.03.2019
Design of the Sub Camp #1	Submitted/Approved	RD/MEPA	18.06.2019
			31.10.2019

Design of the Sub Camp #2	Submitted/Approved	RD/MEPA	18.06.2019
			31.10.2019
Design of the Sub Camp #3	Submitted/Approved	RD/MEPA	18.06.2019
			31.10.2019
Design of the Sub Camp #4	Submitted/Approved	RD/MEPA	18.06.2019
			31.10.2019
Permit for tree cutting within the RoW	Submitted/Granted	MEPA/NFA/NASP	19.07.2019
			21.08.2019
Permit for cutting the Georgian Red Listed tree species within the RoW	Submitted/Granted	Government of Georgia/MEPA	18.07.2019
			20.09.2019
Screening application for the arrangement of the Rock Crushing Plant in village Vertkvichala	Submitted/Resubmitted/Approved	MEPA	23.12.2019
			28.02.2020
			31.03.2020
Technical Conditions for Water abstraction from Surface Water Objects for 56 points	Submitted/Approved	MEPA	23.12.2019
			03.02.2020
Design of the spoil disposal site in village Vertkvichala (#11)	Submitted/Resubmitted/Approved	MEPA	27.01.2020
			21.03.2020
			27.08.2020
Screening application for the arrangement of the waterflow channel at the spoil disposal site in village Vertkvichala (#11)	Submitted/Approved	MEPA	21.03.2020
			26.08.2020
Permission for cutting the Georgian Red Listed species of trees at the spoil disposal site in village Vertkvichala (#11)	Submitted/Granted	Government of Georgia/MEPA	27.08.2020
			31.12.2020
Design of the spoil disposal site in village Khevi (#12)	Submitted/Approved	MEPA	12.03.2020
			23.03.2020
Technical Inventory Report about Stationary Sources of Ambient Air Pollution and Emissions of Pollutants Emissions for the Rock Crushing Plant	Submitted/Approved	MEPA	30.04.2020
			16.06.2020
Re cultivation Plan of the Rock Crushing Plant	Submitted/Approved	MEPA	18.04.2020
			30.06.2020
Design of the spoil disposal site in village Sakasria (#6) (updated)	Submitted/Approved	MEPA	26/12/2020
			05/02/2021
Design of the spoil disposal site in village Vertkvichala (#7) (updated)	Submitted/Approved	MEPA	26/12/2020
			05/02/2021
	Submitted/Approved	MEPA	26/12/2020

Design of the spoil disposal site in village Vertkvichala (#9) (updated)			05/02/2021
Screening application for the river protection structure at the spoil disposal site in village Sakasria (#6) (Updated version – Rockfill berm)	Submitted/Resubmitted/Approved	MEPA	12.02.2021
			27.03.2021
			07.05.2021
Screening application for the river protection structure at the spoil disposal site in village Vertkvichala (#7) (Updated version – Rockfill berm)	Submitted/Resubmitted/Approved	MEPA	12.02.2021
			27.03.2021
			07.05.2021
Screening application for the river protection structure at the spoil disposal site in village Vertkvichala (#9) (Updated version – Rockfill berm)	Submitted/Resubmitted/Approved	MEPA	12.02.2021
			27.03.2021
			07.05.2021
Re cultivation Plan of the Spoil Disposal Site #11	Submitted/Approved	MEPA	30.10.2020
			26.11.2020
Screening for the gabions at the spoil disposal site in village Khevi (#12)	Submitted/Approved	MEPA	11.07.2021
			20.08.2021
Screening application for the arrangement of the waterflow channel at the spoil disposal site in village Vertkvichala (#11 Expanded)	Submitted/Approved	MEPA	16.07.2021
			09.09.2021
Compensation Tree Planting Plan	Submitted/Resubmitted/Approval	RD/ADB	16.08.2021
			03.09.2021
			17.09.2021
Design of the spoil disposal site in village Vertkvichala (#15)	Submitted/Resubmitted/Approved	MEPA/National Environmental Agency	23.09.2021
			22.03.2022
			20.05.2022
Design of the spoil disposal site in village Sakasria (#16)	Submitted/Resubmitted/Approved	MEPA/National Environmental Agency	23.09.2021
			22.03.2022
			20.05.2022
Design of the spoil disposal site in village Sakasria (#17)	Submitted/Resubmitted/Approved	MEPA/National Environmental Agency	23.09.2021
			22.03.2022
			20.05.2022
Approval of Maximum Allowable Discharge of Pollutants from the groundwater from the tunnels	Submitted/Granted	MEPA	21.10.2021
			18.11.2021
	Submitted/Granted		04.11.2021

Permission for cutting the Georgian Red Listed Tree species on the territory designated for arrangement of the SDS #11 expanded		Government of Georgia/MEPA	22.12.2021
Re cultivation Plan of the spoil disposal site #9 in village Vertkvichala	Submitted/Approved	MEPA	08.02.2022
			24.02.2022
Screening application for the river protection structure at the spoil disposal site in village Vertkvichala (#15)	Submitted/Approved	MEPA/National Environmental Agency	24.05.2022
			08.08.2022
Screening application for the river protection structure at the spoil disposal site in village Sakasria (#16)	Submitted/Approved	MEPA/National Environmental Agency	24.05.2022
			08.08.2022
Screening application for the river protection structure at the spoil disposal site in village Sakasria (#17)	Submitted/Approved	MEPA/National Environmental Agency	24.05.2022 08.08.2022

47. As the project is at operation stage and DNP phase and road is opened for the traffic. Identified non-conformances of the EMP and SEMP are mostly related to decommissioning of the project facilities, recultivation/ rehabilitation of dumpsites. The detail is given in the Table 9.

Table 9: Identified Non-Conformances (Jan – June 2024)

#	Location/ Activity	Date	Issue/ Required Action	Respon sibility	Approval Status	Corrective Action Taken	Corrective Action required	Status
Decommissioning and recultivation of Campsites								
1	Decommissioning and Re-cultivation of the site for sub camp 1	March 2024	CC to implement recultivation /reinstatement activities according to the approved recultivation plan at the site designated for Subcamp 1 in village Khevi, Kharagauli municipality	HNRB Contractor	Approved by MoEPA 05.09.2019	Land handed over to the owner and owner established small mixing batching plant at the site. 	-	Completed June 2024

								
2	Decommissioning & Recultivation of the site for sub camp 2	March 2024	CC to implement recultivation /reinstatement activities according to the approved recultivation plan at the site designated for Subcamp 2 in village Khunevi, Kharagauli municipality	HNRB Contractor	Approved by MoEPA 05.09.2019	Land handed over to the owner and agreement signed. Agreements with the landowner attached as an Annex-4. No further Action required.	-	Completed March 2024

								
3	Decommissioning & Recultivation of the site for sub camp 3	April 2024	CC to implement recultivation /reinstatement activities according to the approved recultivation plan at the site designated for sub camp 3 in village Vertkvichala, Kharagauli municipality	HNRB Contract or	Approved by MoEPA 05.09.2019	Contractor cleaned the area and removed the building material f and concrete floor and started construction of local road.	-	Completed June 2024

								
4	Decommissioning & Recultivation of the site for sub camp 4	April 2024	CC to implement recultivation /reinstatement activities according to the approved recultivation plan at the site designated for sub camp 4 in village Sakasria, Kharagauli municipality	HNRB Contractor	Approved by MoEPA 05.09.2019	Contractor shifted labor and their belongings, handed over the land to contractor as the owner wants to keep concrete structure and signed the agreement. No further Action required.	-	Completed.

								
5	Decommissioning & Re-cultivation of the site for the Main Campsite	April 2024	CC to implement re-cultivation /reinstatement activities according to the approved recultivation plan at the site designated for Main Campsite in village Boriti, Kharagauli municipality	HNRB Contractor	Approved by MoEPA 12.06.2019	Still in use for accommodation and office works and contractor will use until the completion of the local roads and other project related works. One part of the building is given for the 112 Emergency services.	Still in Use of the contractor.	In progress

								
Batching Plant								
6	Decommissioning & Re-cultivation of the site for Concrete Batching Plant 1	Feb 2024	CC to implement re-cultivation /reinstatement activities according to the approved re-cultivation plan at the site designated for Batching Plant 1 in village Khevi, Kharagauli municipality	HNRB Contractor	Approved by MoEPA 05.09.2019	Contractor decommissioned the batching plant and provide the slope protection by placing concrete blocks and signed agreement with the owner that he want to keep the hard floor. No further Action Required.	-	Completed April 2024

								
7	Decommissioning & Re-cultivation of the site for Concrete Batching Plant 2	March 2024	CC to implement re-cultivation /reinstatement activities according to the approved re-cultivation plan at the site designated for Batching Plant 2 in village Khunevi, Kharagauli municipality	HNRB Contractor	Approved by MoEPA 12.06.2019	Contractor decommissioned the batching plant and need to remove the concrete base to bring it in to original shape. 	Remove the concrete base, if demanded by the owner	In progress
8	Decommissioning & Re-cultivation of	March 2024	CC to implement re-cultivation /reinstatement	HNRB Contractor	Approved by MoEPA 05.09.2019	BP 3 is still in use for secondary road construction and contractor will use it until the completion of the Project.	Still in use of contractor	In progress

	the site for Concrete Batching Plant 3		activities according to the approved re-cultivation plan at the site designated for Batching Plant 3 in village Sakasria, Kharagauli municipality				to complete the works on secondary roads.	
9	Crushing Plant	Feb 2024	CC to re-cultivate/ reinstate the area as agreed in the Re-cultivation Plan	HNRB	30-03-2020	Contractor decommissioned the crushing plant and handed over to land owner. Currently land is being used by F1 contractor. No further action required by contractor for F2.	-	Completed April 2024

								
Dumpsites								
10	Arrangement of river protection structures at the SDS 6	April 2024	CC to arrange a river protection berm at the SDS 6 according to the approved design, in village Sakasria, Kharagauli municipality.	HNRB Contractor or	Approved by MoEPA 02.12.2022	The contractor is currently working on the slope protection, which is currently 90% completed. 	Contractor to complete the slope works	In progress

								
1 1	Arrangement of river protection structures at the SDS 7		CC to arrange a river protection berm at the SDS 7 according to the approved design, in village Vertkvichala, Kharagauli municipality.	HNRB Contract or	Approved by MoEPA 06.12.2022	In progress Three months ago, F2 had arranged a large number of equipment and muck trucks to remove the waste soil in the first half, but recently F1 dumped the waste soil again, see pictures below. F2 has started the mortar stone slope protection of the second half of the river bank.	Complete the rehabilitation works	In progress

								
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1 2	Arrangement of river protection structures at the SDS 9	April 2024	CC to arrange a river protection berm at the SDS 9 according to the approved design,	HNRB Contract or	-	Completed River protection works completed; 327 trees planted.	-	Completed During pervious reporting period.

						 		
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1 3	Arrangement of river protection structures at the SDS 12		CC to arrange a river protection berm at the SDS 12 according to the approved design, in village Khevi, Kharagauli municipality.	HNRB Contract or	Approved by MoEPA 20.03.2021	Completed The contractor has completed the riprap slope protection. 		Completed June 2024
1 4	Arrangement of river protection structures at the SDS 15		CC to arrange a river protection berm at the SDS 15 according to the approved design, in village Vertkvichala, Kharagauli municipality.	HNRB Contract or	Approved by MoEPA 08.08.2022	Completed Slope protection works and rock berm river protection works completed. 	June 2024	Completed June 2024
1 5	Arrangement of river protection		CC to arrange a river protection berm at the SDS	HNRB Contract or	Approved by MoEPA 08.08.2022	Completed Slope protection works and rock berm river protection works completed.	May 2024	Completed June 2024

	structures at the SDS 16		16 according to the approved design, in village Sakasria, Kharagauli municipality.			 		
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48. There are three pending non-conformances from last bi-annual report and the corrective action for these issues is in progress related to river bank cleaning works by removing inert waste and river protection works at completed site is in progress. Contractor has a positive attitude and progress to resolve these issues.
49. Implementation Status of Corrective Actions proposed in the previous reports is provided in the Table 10 below.

Table 10: Implementation Status of Corrective Actions from previous monitoring reports

ID #	Issue	Action required	Responsibility	Target date	Description of Resolution	If not yet resolved, indicate the reason why and specify further required
1	CC decommissioned the camp 3. Rehabilitation/ recultivation required	CC to recultivate the camp#2 as per requirement of MoEPA and get agreement signed with the owner.	Contractor	4 weeks	Contractor removed the base of camp 3 and started works for the construction of local road.	Resolved
2	River protection works required along river Dzirula at 7 sites including: SDS# N6, N7, N11, N12, N15, N16, N17	CC to start river protection works parallel with construction activities	Contractor	3 months	During the reporting period CC was actively involved in closing th rehabilitation issues related to dumpsite. Once all the dumpsites will be rehabilitated/ recultivated, the issue will be closed. SDS 16 completed, river protection wall completed. SDS 17 slope wall completed rock berm wall completed SDS 15 slope completed , river protection wall completed SDS N7 river protection wall under construction SDS N6 under construction SDS 12 recultion completed. SDS 11 is on hold as this is being used for F1 project and will be recultivated after completion of the site. Moreover, engineer wrote a series of letter for rehabilitation and recultivation of the sites. Engineer Letters: N3709/CKUSE60/UBM-GE; dated 12.07.2024 ;	Rehabilitation works are on going

					• N1848/CKUSE60/UBM-GE, dated 22.07.2021; • N1643/CKUSE60/UBM-GE; dated 20.04.2021; • N1848/CKUSE60/UBM-GE, dated 22.07.2021; • N2194/CKUSE60/UBM-GE, dated 17.11.2021; • N2241/CKUSE60/UBM-GE, dated 16.12.2021; • N2275/CKUSE60/UBM-GE, dated 07.01.2022; • N2393/CKUSE60/UBM-GE, dated 26.02.2022; • N2590/CKUSE60/UBM-GE, dated 25.06.2022; • N 2654/CKUSE60/UBM-GE, dated 29.07.2022; • N 2834 /CKUSE60/UBM-GE, dated 07.10.2022; • N 2843 /CKUSE60/UBM-GE, dated 11.10.2022; • N 3043 /CKUSE60/UBM-GE, dated 10.02.2023; • N3116 /CKUSE60/UBM-GE, dated 20.03.2023;	
3	Inert waste near BP 3	Contractor to remove all the inert waste along the river near BP 3	Contractor	2 weeks	Action required	In progress

50. Engineer has established NCRs and corrective action tracking register for follow up the open NCRs on the project level and reminders are being sent on regular basis. The corresponding detail between engineer and contractor during the reporting period regarding NCRs, corrective actions required and resolving of environmental issues is given in the Table 11.

Table 11: Correspondence between SC and CC to resolve issues related to dumpsites

Date	Engineer Letter	Subject	Issue/ Concern	Required Action	Target Date of completion	Progress
07/12/2024	3705-CKUSE60-UBM-GE	Warning for the washing out of SDS 11	Rehabilitation of the dumpsite 11	Contractor is required to build the river channel and rehabilitation of SDS 11	One week	Ongoing
11/10/2023	3405-CKUSE60-UBM-GE	Environmental Missing and Defects to be completed for completion	Corrective actions required for observations made during joint inspection of CC, RD and PMCSC.	CC to take corrective actions for tunnel water management, river protection works.	October 20-2023	Ongoing CC started cleaning works along the river
8/11/2023	3545-CKUSE60-UBM-GE	Removing of the inert waste from the river bed	Inert waste on river beds	CC to start the removal of inert waste from the river bed.	November 15, 2023	Contractor carrying out cleaning of river banks.
27/11/ 2023	3561-CKUSE60-UBM-GE	Resolving Environmental issues related to completion of the Project	Recultivation of project primary facilities at decommissioning phase	CC to start the recultivation works of dumpsite.	November 28, 2023	ongoing

3.3 Issues Tracking (Based on Non-Conformance Reports)

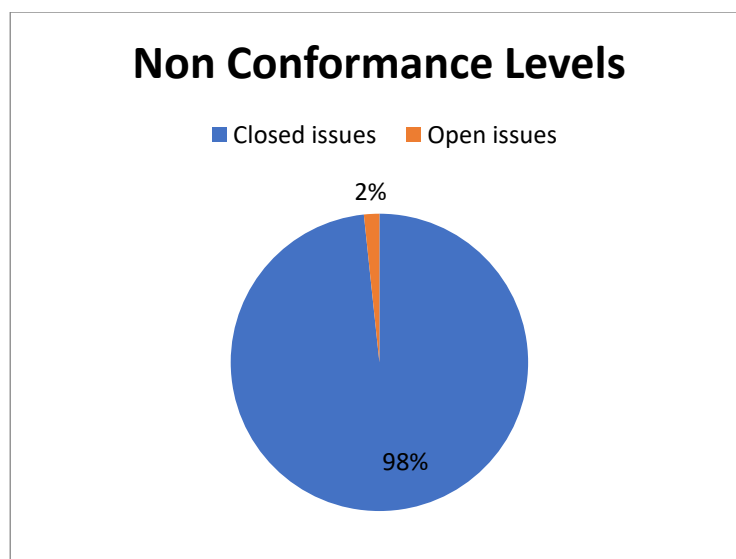
51. Description of the issues tracked during the reporting period is given in the Table 12. There are two issues pending from the previous semi-annual reports and these are related to rehabilitation and recultivation of the project primary sites and disturbed areas which are highlighted during this reporting period also.

Table 12: Summary of issue tracking during the project (Jan – June 2024)

Total number of issues for the Project	299 +15 =314
Number of open issues (for next Q)	6
Number of closed issues (during project life)	308
Percentage closed	98 %
Issues opened this reporting period	15
Issues closed this reporting period	11

52. Data on the number of closed and open issues is presented in Figure 3. This data is based on the issues that were observed and have been closed or remained open during the Project.

Figure 3: Non-Conformance levels during the Project



53. Out of three hundred fourteen (314) issues during the project life, three hundred eight (308) issues were closed. Issues pending belongs to rehabilitation/ recultivation of primary facilities and are mentioned in this reporting period also. Table 12 shows the number of emerged and closed issues during the reporting period.
54. The pending issues have been reported to contractor through letter # 3705-CKUSE60-UBM-GE Dated: 12-07-2024

3.4 Trends

55. As the project is at operation stage and contractor has opened the highway for the traffic. Focus of the works during the reporting period was to build the locals roads, decommissioning of the primary facilities including campsites, batching plants, and dumping sites and other disturbed area. In addition to that finishing works related to slope protection, river protection works, tunnel portals, installations of signage, drainage works

were also carried out. Currently, the works are ongoing for construction of secondary roads and completion of interchanges and rehabilitation of dumpsites.

56. Most of the violations observed during the reporting period are related to the concrete waste and leftover material such as flume pipes, pipe pieces in drainage channels, security boxes left near TUN 9, concrete blocks near TUN 10, used containers near bridge 11, concrete waste, New jersey barriers under bridge 17, and housekeeping at main which is still under the control of the Contractor. PMCSC prepared the detailed waste inventory report to monitor those sites during the site inspection and contractor is cleaning that areas (for detail please see Annex-2). However, the highway section is cleaned and traffic is running smoothly.
57. During the reporting period, contractor attitude towards resolving environmental non compliances was positive and continued the rehabilitation and river protection works; however, contractor is required to speed up the rehabilitation works at the spoil disposal sites 11.

3.5 Unanticipated Environment Impacts or Risk

58. No unanticipated environment risk observed during the reporting period.

4. RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of the Monitoring Conducted During Current Period

59. N/A as project is at operation stage and Instrumental monitoring is not required at this stage as set in the EIA.

4.2 Summary of Monitoring Outcomes

60. N/A as project is at operation stage

4.3 Material Resource Utilization

61. Since the beginning of project up to June 2024, following construction materials were mobilized on site by the Contractor:

Table 31: Construction Material Mobilization

#	Materials	Unit	Delivered up to June 2024
1	Cement	ton	408095
2	Rebar	ton	74523
3	I-beam steel	ton	16733.92
4	Structural pipe	ton	1894.18
6	Steel fibre	ton	463.86
7	Anchor bars	ton	46.58
8	Anchor cable	ton	17.9585
9	Geotextile	m ²	34960
10	Rock Nail	ton	200.26
11	Water stop	Piece	1500
12	Drain pipe	meter	804
13	Waterproof	m ²	16488

14	Steel wire rope	m ²	28065
15	Elastomeric Bearing	set	7864
16	Steel Strand	ton	1529.276
17	Steel Plate	ton	15575.802
18	Angle Steel	ton	2960.7
19	Welding Wire and Flux	ton	55
20	Expansion joint	meter	184.8
21	Bolts	set	925023
22	Paint	L / ton	23173.3 L+57.62503 ton
23	VEHICLE RESTRAINT SYSTEM	ton	6424.78
24	Lighting Post	ton	1894.18
25	Cable	ton	260
26	JET FAN	set	46
27	Cable Tray	meter	9603
28	Electric heating cable	ton	0.136
29	Transformer	set	13
30	Diesel Generator Unit	set	9
31	Retardant Paint	ton	24.88

4.3.1 Water, Fuel and Electricity Consumption

62. During the reporting period activities involving water consumption include: construction of secondary roads, interchange, and batching plant operation, dust suppression and water being used for lavatories and washing facilities by the workers and in the kitchen.
63. Diesel fuel is being consumed for the operations of heavy vehicle and equipment used for the construction activities and power generators at the construction site and batching plants. Electricity is being used for campsite and offices. The details of water, fuel and electricity consumption is given below in Table 14.

Table 14: Water, Fuel and Electricity consumption

#	Materials	Unit	July-December 2023	Jan- June 2024	Cumulative from start of the Project
1	Electricity	Kilowatt-hour	1532505	1901398	5290153.2
2	Diesel	Liters	1585201	409633	4680041
3	Petrol	Liters	4150	5010	24320
6	water	Cubic meters	6620	4500	25640

4.4 Waste Management

64. Household waste is collected and transported by the subcontractor (municipal service company “Kharaguldasuftaveba”) on a regular basis. Different types of hazardous waste are temporarily kept in the restricted area (fenced on impervious base with roof) before transported by the licensed waste transportation/treatment company (LTD “Sanitary”). Wood waste is being handed over to community to burn as a fuel. Information regarding the generation of waste during reporting period is given in the Table 15.

Table 15: Waste management (January -June 2024)

#	Domestic/Hazardous Waste & Sewage	Estimated Volume	Storage Area	Licensed Company
1	Household waste	50 m ³	Camp sites, Workshops, Construction sites	Kharagauli Municipality (Kharaguldasuftaveba)
2	Sewage water	60 m ³	Septic tanks	Individual Entrepreneur Akaki Tskhadadze (18001007374) Agreement attached as Annex-6 Contracted since October 2020) collects the sewage by Cesspool Truck, transports it to Zestaponi and discharges it in Zestaponi sewage system, operating under the LTD United Water Supply Company of Georgia (UWSCG) of the Ministry of Regional Development and Infrastructure of Georgia. Each sewage transfer note is duly signed upon discharge by the local representative of the UWSCG.
3	Used tires	850 kg.	Temporary waste storage area at the Workshop	LTD Sanitary
4	Hydraulic and used oil	250 liters	Temporary waste storage area at the Workshop	LTD Sanitary
5	Waste paints and varnishes	12 liters	Temporary waste storage area at the Workshop	LTD Sanitary
7	Oil drums	13 pcs	Temporary waste storage area at the Workshop	LTD Sanitary

9	Absorbents (e.g., oil filters, polluted clothes and materials)	25 kg.	Temporary waste storage area at the Workshop	LTD Sanitary
10	Medical Waste	1 kg.	Temporary waste storage area at the Workshop	LTD Sanitary

4.3 Current Period

65. The main source that generates the big amount of the waste is earthworks, specifically: excavation of the soil and rock soil material excavated from the tunnels. Estimated calculations for spoil generation and excavated material up to June, 2024 are given below:

Estimated spoil generation: 4,900,000 m³

Estimated spoil reuse for embankments: 850,000 m³

Spoil needs to be disposed of: 4,050,000 m³

Excavated spoil material up to June 2024: 3, 570,000 m³

4.5 Health and Safety

66. The Contractor's HSE team: Mr. Zheng Yulin (HSE Manager), Mr. Xu Chunlei (HSE Supervisor), Mr. Merab (HS trainer) and Mr. Giorgi (HS Specialist) are at the site. Project management and HSE management team are responsible for maintaining safety and protection against HSE accidents and are available on-site on daily basis. Engineer's safety specialist has been demobilized due to completion of the Main works.

4.5.1 Community Health & safety

67. No incident reported involving community members or no traffic incident was recorded during the reporting period.

68. Contractors appointed security officers on all construction site entrances and installed CCTV camera control at the main. Contractor providing barriers, fencing along the road to isolate and secure the construction activity from the road users, traffic sign, emergency lights, road markings, barricading and signage for awareness of road users and smooth flow of traffic and tunnel safety.

4.5.2 Occupational Health & Safety

69. Daily safety inspection of construction site is being conducted by HSE representatives as a continuous process. HSE specialist of Contractor is reporting all safety deviations to project management on a daily basis. HSE department conducting mandatory HSE induction for new employees, providing special safety trainings to raise safety culture within organization.

70. Contractor is providing the mandatory PPEs and special protective equipment for the workers on site. Contractor appointed one lifting supervisor and one scaffolding specialists for safe work practice. Company purchases certified scaffolding equipment for bridge pier construction works.

71. Monthly inspection of the fall protection equipment and lifting equipment is being conducted by HS team. Daily monitoring for toxic gases is being conducted inside the tunnel construction sites during the finishing works in the tunnels.

72. NO work-related accident was reported during the reported period.

4.5 Trainings

73. Project is at operation stage; Induction training is provided when any new worker comes; working at height, tunnel safety trainings are being provided by the contractor. TBT are being conducted on daily basis for the workers involved during.

4.6 Grievance Redress Mechanism and Complaints

74. A grievance redress mechanism (GRM) is established during consultations to allow affected persons to appeal any disagreeable decision, practice or activity arising from land or other assets compensation. GRM also provides a forum to public/ community who might believe that they are adversely affected by the project. The broad structure, procedure and function of GRM were discussed during the consultation meetings. In the course of public consultation meetings, the APs were informed of their rights and the procedures for addressing complaints whether verbally or in writing. Grievance Redress Committees (GRCEs) were established before the start of LARP implementation at Municipality level (Kharagauli Municipality) and includes representatives of the mayor, of the village governments and of the APs (including a woman AP). Upon commencement of civil works, the CC and CSC are actively engaged in GRM in addressing the concerns/complaints related to construction process. Complaints resolution is first attempted at Municipality level GRCE. If any aggrieved AP is unsatisfied with the GRCE decision at Municipality level, the complaint will be raised to the Resettlement Division of RDMRDI within 2 weeks after receiving the decision from GRCN. The grievance mechanism does not impede access to the country's judicial or administrative remedies. Affected Persons can approach the court of law at any time and independent of grievance redress process. The members of GRC are given as Annex-A and B of the report.

Summary of the Grievance Redress Status (Maintained by RD)

75. RD received 61 grievances from the APs up to reporting date. Here are following issues identified by complainants:
- Damage to Infrastructure/Assets
 - Crop Compensation
 - Inclusion in LARP
 - Loss of business
 - Compensation Rate
 - HSE Concerns
 - Noise Disturbance
 - Restriction or loss of access and
 - Other
76. Out of the 61 grievances, 52 (85%) have been successfully addressed, with 7 (11%) grievances currently open and 2 (4%) being technically held. The nature of these grievances is diverse: i) 6 pertain to compensation assessment, ii) 21 relate to inclusion in LARP, iii) 1 is linked to crop compensation, iv) 14 are associated with damage to infrastructure/assets, v) 1 involves disturbance due to noise, dust and noise, vi) 6 are connected with HSE, vii) 4 are relevant to loss of business, viii) 3 complaint is registered due to loss of access, and ix) 5 complaints fall into the "other category." The RD team, along with the social/resettlement specialist from the CSC and contractor, is diligently working to resolve these grievances. The overall number of grievances has significantly decreased and a detailed breakdown by category is provided in Table 16.

Table 16: RD Complaint Log
(Total Grievances Received up to the End of Reporting Period June 2024)

Number of Complaints by Category:	Closed	Tech.hold²	Open	Total	%
Damage to Infrastructure / Assets	11	1	2	14	22,95%
Crop Compensation	1	0	0	1	1,64%
Other	5	0	0	5	8,20%
Inclusion in LARP	19	0	2	21	34,43%
Disturbance: Noise / Vibration / Dust	1	0	0	1	1,64%
Restriction or loss of access	1	0	0	1	1,64%
Recruitment / Employment	0	0	0	0	0,00%
Loss of business	4	0	0	4	6,56%
Compensation Rate	6	0	0	6	9,84%
Registration / Ownership Status	0	0	0	0	0,00%
HSE Concerns	4	0	1	5	8,20%
Loss of Access	2	0	1	3	4,92%
Total	54	1	6	61	100%

Grievance Redress Status at Project Site maintained by PMCSC (UBM)

77. A total of 184 grievances have been received, originating either directly from the local community or through RD since the Project's inception. Of this total, 72 complaints were filed by females, and 112 were submitted by males. Concerning the received grievances, 118 were related to damaged infrastructure/assets, 17 were related to design issues/inclusion in LARP, 26 pertained to restriction or loss of access, 7 involved losses of business, 8 were associated with disturbance due to noise, 2 were related to HSE concerns, 2 were concerning road upgrading, and 3 were categorized as "Other." Out of the 184 grievances, 158 have been successfully resolved, while 26 remain open, as illustrated in Fig 3. The contractor and CSC continue their efforts to address and resolve these outstanding complaints. Notably, among the 26 pending complaints, 6 have already been forwarded to RD for further action. The detailed breakdown by category is presented in Table 17, with the corresponding status depicted in 3. Interestingly, 63 out of the 72 complaints filed by females have been successfully resolved, reflecting an 88% resolution rate. In comparison, 95 out of the 112 male complaints have been resolved, resulting in an 85% resolution rate. The project team emphasizes equal importance in addressing both male and female complaints, underscoring their commitment to ensuring the project remains free from any form of complaint.

² Those are the cases which are related to ongoing vibration monitoring throughout the construction.

Table 17: Showing the Grievance Log maintained by PMCSC (UBM) Summarize grievances for entire period

Summarized grievances for reporting period (January – June 2024)

Number of Complaints by Category:	Closed	Tech.hold	Open	Total	%
Damage to Infrastructure / Assets	99	0	19	118	64,13%
Crop Compensation	0	0	1	1	0,54%
Other	3	0	0	3	1,63%
Inclusion in LARP	16	0	1	17	9,24%
Disturbance: Noise / Vibration / Dust	7	0	1	8	4,35%
Restriction or loss of access	22	0	4	26	14,13%
Recruitment / Employment	0	0	0	0	0,00%
Loss of business	7	0	0	7	3,80%
Compensation Rate	0	0	0	0	0,00%
Registration / Ownership Status	0	0	0	0	0,00%
HSE Concerns	2	0	0	2	1,09%
Road Upgrading	2	0	0	2	1,09%
Total	158	0	26	184	100%

78. A total of 5 complaints were lodged during the reporting period as indicated in table 18. The substantial majority of these, specifically 3 complaints, are associated with the damage to infrastructure. It is apparent that these complaints are connected to the ongoing construction work at access road which will be completed in September 2024 that persisted throughout the period. The remaining 2 complaints were related to restriction or loss of access. Interestingly, all 5 registered complaints were amicably resolved. These complaints predominantly revolve around infrastructure damage which is being addressed through a post-construction survey plan. The survey is currently in progress and is expected to be finalized in September 2024 as the construction work will be completed.

Table 18: Showing the Grievance Log maintained by PMCSC (UBM) during the reporting period

Number of Complaints by Category:	Closed	Tech.hold	Open	Total	%
Damage to Infrastructure / Assets	3	0	0	3	60,00%
Crop Compensation	0	0	0	0	0,00%
Other	0	0	0	0	0,00%
Inclusion in LARP	0	0	0	0	0,00%
Disturbance: Noise / Vibration / Dust	0	0	0	0	0,00%
Restriction or loss of access	2	0	0	2	40,00%
Recruitment / Employment	0	0	0	0	0,00%
Loss of business	0	0	0	0	0,00%
Compensation Rate	0	0	0	0	0,00%

Registration / Ownership Status	0	0	0	0	0,00%
HSE Concerns	0	0	0	0	0,00%
Road Upgrading	0	0	0	0	0,00%
Total	5	0	0	5	100%

5. FUNCTIONING OF SEMP

5.1 SEMP Review

79. Contractor with full assistance from the international environmental safeguard expert of the engineer prepared SEMP with its sub-plans and the corrected version of SEMP by the engineer was submitted to RD through letter no. 0025/CKUSE60/UBM-GE dated: July.08.2019 which has been approved on August 12, 2019. The Copy of SEMP and its sub-plans are available at engineer as well as contractor's office for the implementation.
80. One section has been added to the SEMP during preparation regarding the suggested monetary penalties to discourage the contractor from any environmental violations. Contractor is updating spoil disposal Plan for each of the new spoil disposal which is not mentioned in the EIA and preparing necessary documentation to include these sites as project related facility. Topic Specific-EMPs (TSEMPs) include the followings:

Topic Specific Plans:

- (a) Waste Management Plan;
- (b) Spoil Disposal Plan for Arrangement of Spoil Disposal Area;
- (c) Re-cultivation Plan;
- (d) Traffic Management Plan;
- (e) Occupational Health and Safety Plan;
- (f) Emergency Response Plan;
- (g) Air Quality Plan;
- (h) Spill Response Plan;
- (i) Noise and Vibration Management Plan;
- (j) Clearance, Re-vegetation and Restoration Management Plan;
- (k) Groundwater Management Plan;
- (l) Tunnel Blasting Plan;
- (m) Biodiversity Management Plan.
- (n) Grievance Redress Mechanism;
- (o) Chance Find Procedure; and
- (p) HSE Plan

Site Specific Plans:

- (a) Construction Camps Plan;
- (b) Concrete Batching Plants and Workshop Plan; and
- (c) Bridge Construction Plan (for each bridge construction site).

81. In accordance with the Asian Development Bank (ADB) Safeguard Policy Statement 2009 (SPS) and the loan or grant agreement between ADB and the borrower, the borrower is required to assess implications of unanticipated risks and impacts under the project; and to identify and implement necessary risk mitigation measures. The unexpected event did not occur within the reporting period.

5.2 Status of Recultivation Plan

82. Recultivation plans for all spoil disposal sites, campsites, batching plants and crushing plants have been approved from the MoEPA. During the reporting, Contractor has completed the recultivation/ rehabilitation works for site # 9, 15, 16,17, 12, (For detail please see Table 9, dumpsite section for detail).

6. GOOD PRACTICES

6.1 Best Practices Adopted

83. Following best practices are adopted by the contractor during the reporting period:

- Contractor completed the retaining wall on demand of local resident in Village Khevi along the secondary access road.
- Contractor continued rehabilitation works throughout the reporting period.
- RD established office of 112, emergency services, ministry of interior in the main camp.

7. SUMMARY AND RECOMMENDATION

7.1 Summary

84. Project is in operation phase and road has been opened for the traffic since October 28, 2023. During the reporting period, construction of secondary roads and rehabilitation works and rehabilitation/ recultivation of project primary facilities were carried out. Overall progress of works is 100 %.

85. that there is a significant change in number of total staff from the previous reporting period and the number of staff is the lowest as the project is completion stage and contractor has started demobilization activities. The ratio of the local to foreign workers is 72 % local and 28% foreign workers

86. Out of three hundred fourteen (314) issues during the project life, three hundred eight (308) issues were closed. Issues pending belongs to rehabilitation/ recultivation of primary facilities and are mentioned in this reporting period also

87. As the project is at Operation stage and contractor has opened the highway for the traffic. Focus of the work during the reporting period was to build the locals roads, decommissioning of the primary facilities including campsites, batching plants, and dumping sites and other disturbed area. In addition to that finishing works related to slope protection, river protection works, tunnel portals, installations of signage, drainage works were also carried out. Currently, the works are ongoing for construction of secondary roads and completion of interchanges and rehabilitation of dumpsites.

88. Most of the violations observed during the reporting period are related to the concrete waste and leftover material such as flume pipes, pipe pieces in drainage channels, security boxes left near TUN 9, concrete blocks near TUN 10, used containers near bridge 11, concrete waste, New jersey barriers under bridge 17, and housekeeping at main which is still under the control of the Contractor. PMCSC prepared the detailed waste inventory report to monitor those sites during the site inspection and contractor is cleaning that areas. However, the highway section is cleaned and traffic is running smoothly.

89. Contractor has completed the recultivation/ rehabilitation works for five sites including SDS # 9, 15, 16,17, 12.

90. During the reporting period, contractor attitude towards resolving environmental non compliances was positive and continued the rehabilitation and river protection works; Contractor has made a good progress for recultivation/ rehabilitation works for the dumpsite; however, contractor is required to speed up the rehabilitation works at the spoil disposal sites.

7.2 Recommendations

91. Table 19 summarize the recommended mitigation measures which contractor is required to apply in the 3rd and 4th quarter of 2024 to meet the requirements furnished in the EMP and conditions of the contract at this stage of the project:

Table 19: Summary of recommendations and responsibilities

Recommendations	Responsibility
Complete the reinstatement works under the bridges, especially, under the bridge # 1 bridge#13, Bridge#14, and bridge#18 and spread the topsoil, where required.	CC to implement and CSC to monitor
Complete the greening works, especially, at the tunnel portal and slopes, and Interchanges where required.	CC to implement and CSC to monitor
Remove the debris and leftover material in the surroundings of the highway and clean the drainage lines along the Highway	CC to implement and CSC to monitor
Remove or use the concrete blocks for river protection works near bridge 11, and between tunnel 10 and tunnel 11 and remove flume pipes near the main campsite.	CC to implement and CSC to monitor
Complete the signing of the agreement with the landowners, where required.	CC to implement and CSC to monitor
Complete the river protection works already started at spoil disposal sites and as the dumpsite 11 is being used for F1 project, Contractor should reach an agreement with the parties of F1 about the rehabilitation of the site.	CC to implement and CSC to monitor
Shift the concrete waste dumped closed to batching plant 3 preferably to SDS# 11 which is in operation	CC to implement and CSC to monitor
Continue delivering the waste to the municipality from the main camp	CC to implement and CSC to monitor
Remove the used tyres, hazardous waste from the hazardous waste storage area in the parking Lot.	

ANNEXES

Annex-1 Project Pictures

#	Pictures	Description
1		Cutting of Pipe pieces to be removed and drainage channel needs to be cleaned. From Tunnel 1 March 2024
2		No Debris Observed, slope stabilized Tunnel 2 March 2024
3		No debris observed, slope stabilized Tunnel 3 March – April 2024

4		No debris found.at TUN4 April 2024
5		No debris observed, slope stabilized TUN 5 April 2024
6		A view of Tunnel 6

7		A view of TUN 7 no debris found
8		A view of Tunnel 8
9		Cleaning of the area from the sides of the tunnel required TUN 9

10		Flume pipes to be removed between tunnel 10 & 11 May 2024
11		Need to remove security box, clean the area, and remove the pipe cutting pieces between TUN 11 & Bridge 18 May 2024
12		Area needs to be levelled, debris under the bridge, used tyres under the bridge Bridge 1 April 2024

13		No debris found on the bridge
14		A view of Bridge 3
15		A view of bridge 4. No debris found April 2024

16		Bridge# 5 No debris along the bridge, slope stabilized
17		Bridge# 6 No Debris found on the bridge
18		

19		Bridge# 8 No Debris found along the bridge
20		Bridge# 9 No debris found along the bridge, Concrete blocks inside the river along the bridge
21		Bridge# 10 No debris found along the bridge

22		Bridge# 11 No debris/ waste found on the bridge, used containers to be removed from the surroundings
23		Bridge# 12 No debris or waste over the bridge,
24		Security box and debris to be removed from under the bridge, leveling of areas is going on, Contractor spreading the topsoil under the bridge. Bridge 13 May 2024

		
25		A view of bridge 14 Leveling of land under bridge required. April -May 2024
26		Bridge# 15 No Debris found along the bridge

27		Debris cleaning work required under the bridge 16 near BP 3. May 2024
28		New Jersey barriers to be removed under the bridge. Bridge 17 May 2024
29		Leveling of the land required under bridge 18

Annex 2: Construction waste inventory report

Post Project Construction Waste Inventory Report

GEO: Construction of Khevi-Ubisa Section (E60 Highway Route), Lot F2 Project

Financed by the Asian Development Bank

Project Number: 49257-001 Loan No 3715 – GEO



April 2024

Prepared by UBM Environment Safeguard team for Roads Department (RD) of the Ministry of Regional Development and Infrastructure of Georgia (MRDI) and the Asian Development Bank (ADB).

Abbreviations

ADB	Asian Development Bank
BP	Batching Plant
CC	Construction Contractor
CSC	Construction Supervision Consultant
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMR	Environmental Monitoring Report
HNRB	Hunan Road & Bridge Construction Group Co
HSE	Health Safety and Environment
MoEPA	Ministry of Environmental Protection and Agriculture
RD	Road Department
Row	Right of Way
SC	Supervision Consultant
SDS	Spoil Disposal Site
SEMP	Site-Specific Environmental Management Plan

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3 CONCLUSIONS AND RECOMMENDATIONS:.....	94

1. INTRODUCTION

This report presents the findings of the post construction environment inventory survey conducted for of East - West Highway (Khevi-Ubisa section) Improvement Project carried out in April 2024 as required by ADB during site ADB Mission site visit on March 25, 2024. The official Commencement date for the Project was set July 22, 2019. Original completion date set for the Project was July 06, 2022. Extensions for the works were awarded up to May 31, 2023 and October 28, 2023.

The Project involves the construction of a new road section of the E-60 highway located in Imereti Region of Central Georgia. Section F2 forms the Khevi - Boriti portion of the Khevi-Ubisa-Shorapani-Argveta section of the E-60. The length of the Project Road is given below:

- 1) Right lane (TA - Tbilisi-Argveta direction) -12.197km ;
- 2) Left lane (AT - Argveta -Tbilisi direction)-12.193km.

Total twenty tunnels 20 with length 9110.93 meters are the part of project including:

- 9 tunnels on carriageway TA (two existing tunnels to rehabilitate) with total length of 4,340 m;
- 11 tunnels on carriageway AT with total length of 5020 m.

The project road also includes (35) bridges, of which 18 bridges on TA carriageway with total length of 4210 m and 17 bridges on AT carriageway with total length of 4186 m. and 2 interchanges.

The Highway has been opened for the traffic on 28-10-2023: however, contractor is continuing the activities to complete the outstanding works of the Project. Works activities are ongoing for the construction of secondary roads, seeding and greening the areas, rehabilitation/ recultivation of dumpsites and decommissioning of the project primary facilities, which are not in use, including campsites, batching plants, and demobilization of the equipment and machinery which is not in use.

The Project involves the construction of a new road section of the E-60 highway located in Imereti Region of Central Georgia. Section F2 forms the Khevi - Boriti portion of the Khevi-Ubisa-Shorapani-Argveta section of the E-60. The length of the Project Road is given below:

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- 11 tunnels on carriageway AT with total length of 5020 m.

The project road also includes (35) bridges, of which 18 bridges on TA carriageway with total length of 4210 m and 17 bridges on AT carriageway with total length of 4186 m. and 2 interchanges.

The post construction waste inventory report is prepared in accordance with the safeguard requirement of the ADB SPS 2009, The objective of the construction waste inventory survey and the report is to determine and verify that the contractor has taken corrective actions to remove all the debris and construction waste from the project affected area including highway, its

surroundings and project primary facilities. The contractor should not leave any kind of debris and construction material and completely clean the area as per requirement of the EIA and SEMP. The mitigation measures implemented for handling of construction waste are appropriate and successfully implemented to control environmental pollution and damages at the decommissioning phase of the Project. In addition to that one of the major objectives is that after submission of the inventory report to ADB through RD, ADB team can visit these identified spots to confirm that the contractor has removed construction waste and cleared the area. Before demobilization.

Methodology adopted to carry out construction waste inventory report consist of the joint sites visits carried out by the CSC environment specialist and contractor's environmental manager to note down the construction waste/ debris left along the RoW, surroundings of the Project affected Areas, specifically, under the bridges, and during decommissioning of the project facilities including campsites, batching plants, steel factory and spoil disposal sites. Finally, a comprehensive report is prepared consisting of the survey findings and concerns, corrective actions required, recommendations made and target date sets for corrective action. The post construction Inventory survey was carried out on April 22-23, 2024. A detailed post construction audit was also submitted to RD in this regard by CSC during April 2024.

2. INVENTORY SURVEY FINDINGS

The post construction waste inventory survey was conducted on April 22-23,2024 by the Environmental Expert of CSC along with Contractors Environmental Manager. During the survey, the entire strip of the road, along with project primary facilities was inspected carefully for the left-over construction waste, debris and municipal waste. The details of the inventory, identified locations to be cleaned, corrective action required with the target date set by the contractor is given below in the Table 1

Table 1. Findings of the Construction waste Inventory Survey during April 2024

No.	LOCATION	PICTURE/SKETCH	RECOMMENDATIONS	DEADLINES FOR CORRECTIVE ACTIONS	Respond by the CC
1	Under the bridge 2.1.01. Village Khevi, Kharagauli Municipality	Debris, boulders under the bridge 	The territory should be cleaned of construction debris and the territory should be restored and leveled to bring it to original position.	5-May-24	
2	N1 Concrete Batching Plant. Village Khevi, Kharagauli Municipality	The territory should be cleaned of construction debris and the territory should be restored and organized. 	Landowner asked to keep concrete base. Agreement signed between Contractor and landowner	N/A	

3	Near the local bridge to village Nadaburi. Village Khevi, Kharagauli Municipality	Debris, concrete blocks at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Figure 2 Completion time 1-May-24 Figure 3 Completion time 1-May-24	The waste soil in Figure 1 does not belong to F2 Project
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4	N1 Interchange, Village Vertkvichala, Kharagauli Municipality	Debris concrete waste at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 5-May-24	
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5	Under the bridge 2.1.13. Village Vertkvichala, Kharagauli Municipality.	Debris, concrete waste at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Figure 2 Completion time 10-May-24	Figure 1 The landowner requested to retain the concrete base as explained by the contractor.
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6	Under the bridge 2.1.12. Village Khunevi, Kharagauli Municipality.	Concrete waste, debris at the site 	The territory should be cleaned of construction debris and the territory should be restored and restored to it original condition.	Completion time 20-May-24	
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6	Near the tunnel 2.0.09. Village Sakasria, Kharagauli Municipality	Debris, construction waste at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 25-May-24	
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7	Near the Spoil Disposal Site N7. Village Khunevi, Kharagauli Municipality	Concrete waste at the identified location. 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 25-May-24	
8	Near the Tunnel 2.0.05. Village Khunevi, Kharagauli Municipality	Spoil material and debris at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 25-May-24	

9	Under the bridge 2.1.10. Village Khunevi, Kharagauli Municipality	Construction waste, debris left at the site as shown in the pictures below. 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 25-May-24	
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10	Near the Tunnel 2.0.05, Village Khunevi, Kharagauli Municipality	Concrete blocks and debris at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 2024. 30-May-24	
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11	Near the Tunnel 2.0.04, Village Khunevi, Kharagauli Municipality	Concrete blocks and spoil at the identified location. 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Figure 2 Completion time 10-May-24	The waste soil in Figure 1 does not belong to F2 project.
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12	Under the bridge 2.1.09. Village Khunevi, Kharagauli Municipality	Debris left at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 30-May-24	
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13	Steel Workshop Area. Village Vertkvichala, Kharagauli Municipality	Debris, construction waste at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 30-May-24	
14	Spoil Disposal Site N16. Under the bridge 2.1.14. Village Sakasria, Kharagauli Municipality	Construction waste/ debris leftover at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 20-June-24	

15	Near the tunnel 2.0.10 (subcamp area). Village Sakasria, Kharagauli Municipality	Debris construction waste at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 20-June-24	
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16	Tunnel 2.0.11 AT. Village Boriti, Kharagauli Municipality.	Debris, construction waste leftover at the site. 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 20-May-24	
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17	Bridge 2.1.18. Village Boriti, Kharagauli Municipality.	Debris, construction waste, leftover the site. 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 30-May-24	
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18	Subcamp N4 area. Village Sakasria, Kharagauli Municipality	Leftover waste near camp 4 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Construction waste removal completion time 20-May-24	The landowner requested to retain the concrete base.
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19	Concrete Batching Plant N3. Village Sakasria, Kharagauli Municipality.	Construction waste/ debris/ concrete block at the batching plant and along the river. 	The territory should be cleaned of construction debris and the territory should be restored and organized. River bank needs to be cleaned out. All the spoil material should be dumped at the SDA 11	Completion time 30-June-24	
20	Near the access road to the village of Sakasria, Interchange 2	Construction Waste/ debris at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 20-May-24	

21	The area within the Dzirula riverbed, (between the Tunnel 2.0.10 AT and Tunnel 2.0.11 TA)	Construction waste, blocks at the site 	The territory should be cleaned of construction debris and the territory should be restored and organized.	Completion time 20-May-24	
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3 CONCLUSIONS AND RECOMMENDATIONS:

Following are the recommended corrective actions should be taken by the contractor before demobilization:

- Complete the reinstatement works under the bridge, especially, under the bridge # 1 bridge#13, Bridge#14, and bridge#18 and spread the topsoil, where required.
- Remove the leftover concrete blocks and spoil along the river bank and align the river, where ever, required.
- Remove the debris and leftover material in the surroundings of the highway and clean the drainage lines along the Highway
- Special care should be taken to clean/ and remove leftover material along the access road and consult with the local in this regard to avoid the chances of complaints.
- Remove the spoil material along the river bank and in the surroundings of the Camp 3 and dump at the SDA 11.

F2 full section of the highway is opened for the traffic since October 28, 2023 and no debris, left overs of construction materials, waste was found inside the right of way of the road.

Annex 3: Non-Conformance Letters and Corrective Action Follow up

Attention to:

Mr. Dai Xiangyang (Contractor's Representative)
HNRB-Construction of Khevi-Ubisa Section (E60 Highway Route)-KURP/CW/OCB-01

Subject: Warning for the risk of washing out the Disposal Sites

Our Reference: 3709/CKUSE60/UBM-GE

Date: 12.07.2024

References:

(1) Employer 's letter N 2-08/15076	Dated:09.10.2023
(2) Engineer's letter 3043/ CKUSE60/UBM-GE	Dated:10.02.2023
(3) Engineer's letter 3491/ CKUSE60/UBM-GE	Dated: 04.10.2022
(4) Engineer's letter 3068/CKUSE60/UBM-GE	Dated: 01.03.2023
(4) Engineer's letter 3298/CKUSE60/UBM-GE	Dated: 10.06.2023
(5) Engineer's letter 3505/CKUSE60/UBM-GE	Dated: 11.10.2023
(6) Engineer's letter 3561/CKUSE60/UBM-GE	Dated: 11.10.2023

Dear Mr. Xiangyang,

Dear Mr. Xiangyang,

Progress is being made by the contractor in arranging river embankment structures at the dumpsites. Specifically, the construction of embankment structures at dumpsites N6, N7, N12, N15, N16, and N17 is nearly complete. However, the situation at dumpsite N11 remains problematic.

Despite numerous verbal and written warnings from the Engineer (ref 2-6), there are still no protective structures in place at the disposal areas. Consequently, there is a risk of the disposal sites being washed away.

The Engineer is aware that over the past year, waste rock has not been deposited at N11 by Contractor F-2; instead, waste rock from F-1 has been imported. However, the contractor has not provided the legal justification for this action (transfer of the dumpsite to another party or use by others) to the Engineer.

We would like to remind you that according to Order No. 2-1328 issued by the Minister of Environment Protection and Agriculture of Georgia (N11 landfill screening decision), the total volume of inert waste allowed at the landfill is 2,292,359 m³. For the safe disposal of such a large volume of waste rock, the project includes plans to modify the riverbed and redirect the river flow during both low and flood periods using a 1230-meter concrete trapezoidal channel. Additionally, to divert water flow from the river to the channel, a concrete retaining wall (dam) should be constructed at the channel's beginning, with bridges at the tributaries to facilitate water entry into the main channel.

Given that a significant amount of waste rock has already been deposited at the reservoir and flood prevention measures (such as the water channel and dam) have not been implemented,

there is a substantial risk of the reservoir overflowing during periods of high water, potentially leading to severe environmental consequences, even catastrophic ones.

We are forwarding a letter (ref (1)) from the City Hall of Kharagauli Municipality to the Department of Roads concerning this issue. Please provide your position on resolving these issues within 5 days.

With Kind Regards,



Fethi ERDEM
Team Leader

UBM Uluslararası Birleşmiş
Müşavirler Müşavirlik Hizmetleri A.Ş.
Construction Supervision Consultant for the
E60 Highway F2 Khevi-Ubisa Project (KURP/CS/QCBS-01)

For due Action:

Mr. Dai Xiangyang (Contractor's Representative)
HNRB-Construction of Khevi-Ubisa Section (E60 Highway Route)-KURP/CW/OCB-01

For Information:

Mr. Levan Kupatashvili (Deputy Chairman)
Ministry of Regional Development and Infrastructure of Georgia-Roads Department of Georgia

Attachment: N/A

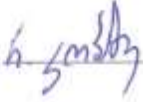
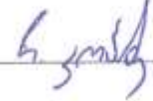
Response Required: ☒ Yes ☐ No

Annex 4: Agreement Between the Contractor and Landowners for Decommissioned Primary Facilities

Batching plant # 1

შეთანხმება	Agreement
04.10.2023	04.10.2023
ერთი მხრივ,	On the one hand,
მიწის ნაკვეთის (საკადასტრო კოდით 36.05.31.743) მესაკუთრე რამაზი კოპაძე	The Owner of the land plot (I/C: 36.05.31.743) Ramazi Kopadze
(შემდგომში წოდებული, როგორც „მესაკუთრე“)	(hereinafter referred as the "land plots"): (hereinafter jointly referred to as the "Owner")
და	and
მეორე მხრივ,	On the other hand,
შპს „ჰუნანის გზებისა და ხიდების სამშენებლო ჯგუფი კომპანიის ფილიალი საქართველოში“ (უცხოური საწარმოს ფილიალი, ს/კ: 205368029) (შემდგომში წოდებული, როგორც „კომპანია“) წარმოდგენილი პროექტის მენეჯერის ქსიანგიანგ დაის სახით,	„Hunan Road and Bridge Construction Group Company Ltd – Branch in Georgia“ (Branch of foreign Enterprise, I/C: 205368029) (hereinafter referred to as the "Branch") represented by the Project Manager - Xiangyang Dai,
„მესაკუთრე“ და „კომპანია“ შემდგომში ერთად მოიხსენიება, როგორც „მხარეები“, ხოლო ცალ-ცალკე კი, როგორც „მხარე“;	The Owners and the Company hereinafter referred to collectively as the Parties and separately as the Party;
მხარეები შეთანხმდნენ გააფორმონ წინამდებარე შეთანხმება (შემდგომში წოდებული, როგორც „შეთანხმება“) შემდეგნაირად:	The Parties agreed to make a legally binding form of the relationship between them and to sign this Agreement (hereinafter referred to as the "Agreement");
გათვალისწინებით იმ ფაქტისა, რომ მხარეთა შორის სხვადასხვა დროს დადებულია მიწის იჯარის ხელშეკრულებები, რომლითაც განსაზღვრულია მხარეთა (მეიჯარე/მოიჯარე) უფლებამოსილებები და პასუხისმგებლობები,	Considering the land lease agreements concluded between the parties at different times, which define the rights and responsibilities of the parties (lessor/lessee),
1. მოუხედავად ცალკეული სახელშეკრულებო დათქმებისა და პირობებისა, მესაკუთრეები ვადასტურებთ, რომ თანახმა ვართ შენარჩუნდეს კომპანიის მიერ ჩვენს საკუთრებაში არსებულ მიწის ნაკვეთებზე მოწყობილი ბეტონის ზედაპირი, ღობეები და შთისპირას აღმართული კონსტრუქცია.	1. Beside the individual contractual reservations and conditions, the owners confirm and agree to maintain the concrete surface, fences and hillside construction constructed by the company on the plots of land owned by the owners.
2. იმ შემთხვევაში, თუ საქართველოს გზების დეპარტამენტის, ან სხვა სახელმწიფო სტრუქტურის მიერ კომპანიას მაინც დაედალება მიწის ნაკვეთების აღდგენა/რეკულტივირება ან მისი პირვანდელ მდგომარეობაში მოყვანა,	2. If the Roads Department of Georgia or another state organ requests from the company to restore/recultivation the land plot or restore it to its original state, the company will be obliged to fulfill such instruction/deed and the owners will not have any complaints in this regard.

კომპანია ვალდებული იქნება დაემორჩილოს ახეთ მითითებას/განკარგულებას და შესაკუთრებებს არანაირი პრეტენზია ამასთან დაკავშირებით არ წარმოუშობათ. 3. წინამდებარე შეთანხმებაზე ხელის მოწერის შემდეგ, ბეტონის ზედაპირზე, ღობეებსა და მთისპირას აღმართული კონსტრუქციაზე საკუთრების უფლება გადადის მიწის ნაკვეთის მესაკუთრეებზე და შესაბამისად, კომპანია იხნის პასუხისმგებლობას აქედან წარმოშობილ (ბეტონის ზედაპირი, ღობეები და მთისპირას აღმართული კონსტრუქცია) ყველა საკითხზე და შესაკუთრებები თავად გადაწყვეტენ ყველა აქედან გამომდინარე საკითხს. 4. წინამდებარე შეთანხმება ძალაში შედის 2023 წლის — მხარეთა მიერ ხელმოწერის მომენტიდან. 5. წინამდებარე შეთანხმება განიმარტება და წესრიგდება ქართული კანონმდებლობის შესაბამისად. 6. მხარეები თანხმდებიან მასზედ, რომ ყველა ღონის იხმარენ, რათა მოლაპარაკების მეშვეობით შეთანხმებით მოაგვარონ ნებისმიერი უთანხმოება და დავა, წარმოქმნილი მათ შორის შეთანხმების ან მასთან დაკავშირებული საკითხების ირგვლივ. 7. თუ მხარეები ვერ შეძლებენ სადავო საკითხების შეთანხმებას, ნებისმიერ მხარეს დავის გადაწყვეტის მიზნით შეუძლია მიმართოს საქართველოს სასამართლოს. 8. შეთანხმება დადებულია ქართულ და ინგლისურ ენაზე. ქართულ და ინგლისურ ვერსიას აქვთ თანაბარი იურიდიული ძალა. ქართულ და ინგლისურ ტექსტს შორის შეუსაბამობის არსებობისას უპირატესობა მიენიჭება ინგლისურ ტექსტს. შეთანხმება დადებულია 2 (ორი) ეგზემპლარად, თითო დოკუმენტი თითოეული მხარისთვის. 9. მესაკუთრეები ადასტურებენ, რომ წინამდებარე შეთანხმების საგანი სრულად გასაგებია მათთვის და შეესაბამება მათ ნებას. შეთანხმების ხელმოწერა განხორციელდა მხარეთა მიერ ნების თავისუფალი გამოვლენის შედეგად და არცერთი მხარე არ იმყოფება რაიმე სახის ზეწოლის ქვეშ. 10. საკითხები, რომელიც არ არის მოწესრიგებული წინამდებარე შეთანხმებით, წესრიგდება	3. After signing the present agreement, the ownership right to the concrete surface, fences and the construction built on the mountainside is transferred to the owners of the land plots, and accordingly, the company will bear no responsibility for all issues outcoming from this matter (concrete surface, fences and construction erected on the mountainside) and the owners themselves will take care of all the issues arising from it. 4. The present agreement enters into a force from --- 2023 after signing by the parties. 5. The present Agreement shall be interpreted and governed by Georgian legislation. 6. The Parties guarantee that they shall use their best efforts to resolve any dispute or controversy which may arise out of the Agreement or issues related to the Agreement, by way of negotiations. 7. If the Parties fail to agree on the disputable issue, any Party may seek dispute resolution in the court of Georgia. 8. The Agreement is concluded in Georgian and English languages. The Georgian and English versions of the Agreement have the equal legal force. In case of contrary/ discrepancy between the English and Georgian versions, the English version shall prevail. The Agreement is executed in 2 (two) counterparts, one per each Party. 9. The owners confirms that the subject of the present Agreement is completely understandable to them and corresponds to their will. The agreement was signed as a result of free expression of will by the parties and neither party is under any kind of pressure. 10. Issues that are not regulated by the present Agreement shall be regulated in accordance with the current legislation of Georgia.
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საქართველოს მოქმედი კანონმდებლობის შესაბამისად. მხარეთა ხელმოწერები მესაკუთრეები რამაზი კოპაძე  ფილიალი მისამართი: ქ. თბილისი, ვაზისუბნის ქ. 36 ელ.ფოსტა: hnrh.ge@gmail.com ქსიანგიანგ დაი 	Signatures of the Parties: The Owner Ramazi Kopadze  The Branch Address: City Tbilisi, Vazisubani str., 36 E-mail: hnrh.ge@gmail.com Xiangyang Dai 
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Agreement with the landowner of Camp 4

4# 3/16

შეთანხმება	Agreement
04.10.2023	04.10.2023
ერთი მხრივ,	On the one hand,
მიწის ნაკვეთის (საკადასტრო კოდი 36.03.37.436)	The Owners of the land plot (I/C: 36.03.37.436) Giorgi
	
(შემდგომში წოდებული, როგორც „მესაკუთრე“)	(hereinafter referred as the "land plots"); (hereinafter jointly referred to as the "Owner")
და	and
მეორე მხრივ,	On the other hand,
შპს „კლანის გზებისა და ხიდების სამშენებლო ჯგუფი კომპანიის ფილიალი საქართველოში“ (უცხოური საწარმოს ფილიალი, ს/კ: 205368029) (შემდგომში წოდებული, როგორც „კომპანია“) წარმოდგენილი პროექტის მენეჯერის ქსიანგიანგ დაის სახით,	„Hunan Road and Bridge Construction Group Company Ltd – Branch in Georgia“ (Branch of foreign Enterprise, I/C: 205368029) (hereinafter referred to as the "Branch") represented by the Project Manager - Xiangyang Dai,
„მესაკუთრე“ და „კომპანია“ შემდგომში ერთად მოიხსენიება, როგორც „მხარეები“, ხოლო ცალ-ცალკე კი, როგორც „მხარე“;	The Owners and the Company hereinafter referred to collectively as the Parties and separately as the Party;
მხარეები შეთანხმდნენ გააღორზონ წინამდებარე შეთანხმება (შემდგომში წოდებული, როგორც „შეთანხმება“) შემდეგნაირად:	The Parties agreed to make a legally binding form of the relationship between them and to sign this Agreement (hereinafter referred to as the "Agreement");
გათვალისწინებით იმ ფაქტისა, რომ მხარეთა შორის სხვადასხვა დროს დადებულია მიწის ოჯარის ხელშეკრულებები, რომლითაც განსაზღვრულია მხარეთა (მეიჯარე/მოიჯარე) უფლებამოსილებები და პასუხისმგებლობები.	Considering the land lease agreements concluded between the parties at different times, which define the rights and responsibilities of the parties (lessor/lessee),
1. მიუხედავად ცალკეული სახელშეკრულებო დათქმებისა და პირობებისა, მესაკუთრეები ვადასტურებთ, რომ თანახმა ვართ შევარჩუნოთ კომპანიის მიერ ჩვენს საკუთრებაში არსებულ მიწის ნაკვეთებზე მოწყობილი ხეტანის ზედაპირი, ღობეები და მთისპირას აღმართული კონსტრუქცია.	1. Beside the individual contractual reservations and conditions, the owners confirm and agree to maintain the concrete surface, fences and hillside construction constructed by the company on the plots of land owned by the owners.
2. იმ შემთხვევაში, თუ საქართველოს გზების დეპარტამენტის, ან სხვა სახელმწიფო სტრუქტურის მიერ კომპანიას მაინც დაევალება	2. If the Roads Department of Georgia or another state organ requests from the company to restore/recultivation the land plot or restore it to its original state, the company will be obliged to fulfill

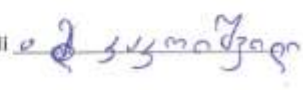
მიწის ნაკვეთების აღდგენა/რეკონსტრუქცია ან მისი პირვანდელ მდგომარეობაში მოყვანა, კომპანია ვალდებული იქნება დაემორჩილოს ასეთ მითითებას/განკარგულებას და მესაკუთრეებს არანაირი პრეტენზია ამასთან დაკავშირებით არ წარმოეშობათ. 3. წინამდებარე შეთანხმებაზე ხელის მოწერის შემდეგ შეტონის ზედაპირზე, ღობეებსა და მთისპირას აღმართული კონსტრუქციაზე საკუთრების უფლება გადადის მიწის ნაკვეთის მესაკუთრეებზე და შესაბამისად, კომპანია იხნის პასუხისმგებლობას აქედან წარმოშობილ (შეტონის ზედაპირი, ღობეები და მთისპირას აღმართული კონსტრუქცია) ყველა საკითხზე და მესაკუთრეები თავად გადაწყვიტენ ყველა აქედან გამომდინარე საკითხს. 4. წინამდებარე შეთანხმება ძალაში შედის 2023 წლის — მხარეთა მიერ ხელმოწერის მომენტიდან. 5. წინამდებარე შეთანხმება განიშარტება და წესრიგდება ქართული კანონმდებლობის შესაბამისად. 6. მხარეები თანხმდებიან მასზედ, რომ ყველა ღონეს იხმარენ, რათა მოლაპარაკების მეშვეობით შეთანხმებით მოაგვარონ ნებისმიერი უთანხმოება და დავა, წარმოქმნილი მათ შორის შეთანხმების ან მასთან დაკავშირებული საკითხების ირგვლივ. 7. თუ მხარეები ვერ შეძლებენ სადავო საკითხების შეთანხმებას, ნებისმიერ მხარეს დაეის გადაწყვეტის მიზნით შეუძლია მიმართოს საქართველოს სასამართლოს. 8. შეთანხმება დადებულია ქართულ და ინგლისურ ენაზე. ქართულ და ინგლისურ ვერსიას აქვთ თანაბარი იურიდიული ძალა. ქართულ და ინგლისურ ტექსტს შორის შეუსაბამობის არსებობისას უპირატესობა მიენიჭება ინგლისურ ტექსტს. შეთანხმება დადებულია 2 (ორი) ეგზემპლარად, თითო დოკუმენტი თითოეული მხარისთვის. 9. მესაკუთრეები ადასტურებენ, რომ წინამდებარე შეთანხმების საგანი სრულად გასაგებია მათთვის და შეესაბამება მათ ნებას. შეთანხმების ხელმოწერა განხორციელდა მხარეთა მიერ ნების თავისუფალი გამოვლენის შედეგად და არცერთი მხარე არ იმყოფება რაიმე სახის ზეწოლის ქვეშ.	such instruction/decreed and the owners will not have any complaints in this regard. 3. After signing the present agreement, the ownership right to the concrete surface, fences and the construction built on the mountainside is transferred to the owners of the land plots, and accordingly, the company will bear no responsibility for all issues outcoming from this matter (concrete surface, fences and construction erected on the mountainside) and the owners themselves will take care of all the issues arising from it. 4. The present agreement enters into a force from — — 2023 after signing by the parties. 5. The present Agreement shall be interpreted and governed by Georgian legislation. 6. The Parties guarantee that they shall use their best efforts to resolve any dispute or controversy which may arise out of the Agreement or issues related to the Agreement, by way of negotiations. 7. If the Parties fail to agree on the disputable issue, any Party may seek dispute resolution in the court of Georgia. 8. The Agreement is concluded in Georgian and English languages. The Georgian and English versions of the Agreement have the equal legal force. In case of contrary/ discrepancy between the English and Georgian versions, the English version shall prevail. The Agreement is executed in 2 (two) counterparts, one per each Party. 9. The owners confirms that the subject of the present Agreement is completely understandable to them and corresponds to their will. The agreement was signed as a result of free expression of will by the parties and neither party is under any kind of pressure. 10. Issues that are not regulated by the present Agreement shall be regulated in accordance with the current legislation of Georgia.
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10. საკითხები, რომელიც არ არის მოწესრიგებული წინამდებარე შეთანხმებით, წესრიგდება საქართველოს მოქმედი კანონმდებლობის შესაბამისად.	Signatures of the Parties:
მხარეთა ხელმოწერები	The Owner
მესაკუთრეები	Giorgi Paksashvili <u>გ. პაქსაშვილი</u>
გიორგი პაქსაშვილი <u>გ. პაქსაშვილი</u>	Gurgen Paksashvili <u>გ. პაქსაშვილი</u>
გურგენ პაქსაშვილი <u>გ. პაქსაშვილი</u>	Tamar Paksashvili <u>თ. პაქსაშვილი</u>
თამარ პაქსაშვილი <u>თ. პაქსაშვილი</u>	Iamze Paksashvili <u>ი. პაქსაშვილი</u>
იამზე პაქსაშვილი <u>ი. პაქსაშვილი</u>	
	The Branch
ფილიალი	Address: City Tbilisi, Vazisubani str., 36
მისამართი: ქ. თბილისი, ვაზისუბნის ქ. 36	E-mail: hnrh.ge@gmail.com
ელ.ფოსტა: hnrh.ge@gmail.com	Xiangyang Dai
ქსიანგიაנג დაი <u></u>	<u></u>

Agreement with the landowners of Camp 2

შეთანხმება	Agreement
04.10.2023	04.10.2023
ერთი მხრივ,	On the one hand,
მიწის ნაკვეთის (საკადასტრო კოდით 36.08.35.464) მესაკუთრე მარინე კაკოიშვილი	The Owner of the land plot (I/C: 36.08.35.464) Marine Kakoishvili
(შემდგომში წოდებული, როგორც „მესაკუთრე“)	(hereinafter referred to as the "land plots"); (hereinafter jointly referred to as the "Owner")
და	and
მეორე მხრივ,	On the other hand,
შპს „ჰუნანის გზებისა და ხიდების სამშენებლო ჯგუფი კომპანიის ფილიალი საქართველოში“ (უცხოური ხაწარმოს ფილიალი, ს/კ: 205368029) (შემდგომში წოდებული, როგორც „კომპანია“) წარმოდგენილი პროექტის მენეჯერის ქსიანგიანგ დაის სახით,	„Hunan Road and Bridge Construction Group Company Ltd – Branch in Georgia“ (Branch of foreign Enterprise, I/C: 205368029) (hereinafter referred to as the "Branch") represented by the Project Manager - Xiangyang Dai,
„მესაკუთრე“ და „კომპანია“ შემდგომში ერთად მოიხსენიება, როგორც „მხარეები“, ხოლო ცალ-ცალკე კი, როგორც „მხარე“;	The Owners and the Company hereinafter referred to collectively as the Parties and separately as the Party;
მხარეები შეთანხმდნენ გააფორმონ წინამდებარე შეთანხმება (შემდგომში წოდებული, როგორც „შეთანხმება“) შემდეგზე:	The Parties agreed to make a legally binding form of the relationship between them and to sign this Agreement (hereinafter referred to as the "Agreement"):
გათვალისწინებით იმ ფაქტისა, რომ მხარეთა შორის სხვადასხვა დროს დადებულია მიწის იჯარის ხელშეკრულებები, რომლითაც განსაზღვრულია მხარეთა (მეიჯარე/მოიჯარე) უფლებამოსილებები და პასუხისმგებლობები,	Considering the land lease agreements concluded between the parties at different times, which define the rights and responsibilities of the parties (lessor/lessee),
1. მიუხედავად ცალკეული სახელშეკრულებო დათქმებისა და პირობებისა, მესაკუთრეები ვადასტურებთ, რომ თანახმა ვართ შენარჩუნდეს კომპანიის მიერ ჩვენს საკუთრებაში არსებულ მიწის ნაკვეთებზე მოწყობილი ბეტონის ზედაპირი, ღობეები და მთისპირას აღმართული კონსტრუქცია.	1. Beside the individual contractual reservations and conditions, the owners confirm and agree to maintain the concrete surface, fences and hillside construction constructed by the company on the plots of land owned by the owners.
2. იმ შემთხვევაში, თუ საქართველოს გზების დეპარტამენტის, ან სხვა სახელმწიფო სტრუქტურის მიერ კომპანიას მაინც დაევალება მიწის ნაკვეთების აღდგენა/რეკულტივირება ან მისი პირვანდელ მდგომარეობაში მოყვანა,	2. If the Roads Department of Georgia or another state organ requests from the company to restore/recultivation the land plot or restore it to its original state, the company will be obliged to fulfill such instruction/decreed and the owners will not have any complaints in this regard.

კომპანია ვალდებული იქნება დაემორჩილოს ასეთ შითიებებს/განკარგულებას და შესაკუთრებებს არანაირი პრეტენზია ამასთან დაკავშირებით არ წარმოუშობათ. 3. წინამდებარე შეთანხმებაზე ხელის მოწერის შემდეგ ბეტონის ზედაპირზე, ღობეებსა და მთისპირას აღმართული კონსტრუქციაზე საკუთრების უფლება გადადის მიწის ნაკვეთის მესაკუთრეებზე და შესაბამისად, კომპანია იხნის პასუხისმგებლობას აქედან წარმოშობილ (ბეტონის ზედაპირი, ღობეები და მთისპირას აღმართული კონსტრუქცია) ყველა საკითხზე და მესაკუთრეები თავად გადაწყვეტენ ყველა აქედან გამომდინარე საკითხს. 4. წინამდებარე შეთანხმება ძალაში შედის 2023 წლის -- მხარეთა მიერ ხელმოწერის მომენტიდან. 5. წინამდებარე შეთანხმება განიშარტება და წესრიგდება ქართული კანონმდებლობის შესაბამისად. 6. მხარეები თანხმდებიან მასზედ, რომ ყველა ღონეს იხმარენ, რათა მოლაპარაკების მეშვეობით შეთანხმებით მოგვარონ ნებისმიერი უთანხმოება და დავა, წარმოქმნილი მათ შორის შეთანხმების ან მასთან დაკავშირებული საკითხების ირგვლივ. 7. თუ მხარეები ვერ შეძლებენ სადავო საკითხების შეთანხმებას, ნებისმიერ მხარეს დავის გადაწყვეტის მიზნით შეუძლია მიმართოს საქართველოს სახამართლოს. 8. შეთანხმება დადებულია ქართულ და ინგლისურ ენაზე. ქართულ და ინგლისურ ვერსიას აქვთ თანაბარი იურიდიული ძალა. ქართულ და ინგლისურ ტექსტს შორის შეუნახამომის არსებობისას უპირატესობა მიენიჭება ინგლისურ ტექსტს. შეთანხმება დადებულია 2 ეგზემპლარად, თითო დოკუმენტი თითოეული მხარისათვის. 9. მესაკუთრეები ადასტურებენ, რომ წინამდებარე შეთანხმების საგანი სრულად გასაგებია მათთვის და შეესაბამება მათ ნებას. შეთანხმების ხელმოწერა განხორციელდა მხარეთა მიერ ნების თავისუფალი გამოვლენის შედეგად და არცერთი მხარე არ იმყოფება რაიმე სახის ზეწოლის ქვეშ. 10. საკითხები, რომელიც არ არის მოწესრიგებული წინამდებარე შეთანხმებით, წესრიგდება	3. After signing the present agreement, the ownership right to the concrete surface, fences and the construction built on the mountainside is transferred to the owners of the land plots; and accordingly, the company will bear no responsibility for all issues outcoming from this matter (concrete surface, fences and construction erected on the mountainside) and the owners themselves will take care of all the issues arising from it. 4. The present agreement enters into a force from --- 2023 after signing by the parties. 5. The present Agreement shall be interpreted and governed by Georgian legislation. 6. The Parties guarantee that they shall use their best efforts to resolve any dispute or controversy which may arise out of the Agreement or issues related to the Agreement, by way of negotiations. 7. If the Parties fail to agree on the disputable issue, any Party may seek dispute resolution in the court of Georgia. 8. The Agreement is concluded in Georgian and English languages. The Georgian and English versions of the Agreement have the equal legal force. In case of contrary/ discrepancy between the English and Georgian versions, the English version shall prevail. The Agreement is executed in 2 counterparts, one per each Party. 9. The owners confirms that the subject of the present Agreement is completely understandable to them and corresponds to their will. The agreement was signed as a result of free expression of will by the parties and neither party is under any kind of pressure. 10. Issues that are not regulated by the present Agreement shall be regulated in accordance with the current legislation of Georgia.
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საქართველოს მოქმედი კანონმდებლობის შესაბამისად. მხარეთა ხელმოწერები მესაკუთრეები მარინე კაკოიშვილი - მ კაკოიშვილი ფილიალი მისამართი: ქ. თბილისი, ვაზისუბნის ქ. 36 ელ.ფოსტა: hnrh.ge@gmail.com ქსიანგიანგ დაი _____ 	Signatures of the Parties: The Owner Marine Kakoishvili  The Branch Address: City Tbilisi, Vazisubani str., 36 E-mail: hnrh.ge@gmail.com Xiangyang Dai _____ 
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24.10.23

შეთანხმება	Agreement
04.10.2023	04.10.2023
ერთი მხრივ,	On the one hand,
მიწის ნაკვეთის (საკადასტრო კოდი: [REDACTED]) მესაკუთრე ივანე სეფიაშვილი ([REDACTED])	The Owner of the land plot (I/C: 36.08.35.474) Ivane Seplashvili [REDACTED]
(შემდგომში წოდებული, როგორც როგორც „მესაკუთრე“)	(hereinafter referred as the "land plots"); (hereinafter jointly referred to as the "Owner")
და	and
მეორე მხრივ,	On the other hand,
შპს „ჰუნანის გზებისა და ხიდების სამშენებლო ჯგუფი კომპანიის ფილიალი საქართველოში“ (უცხოური საწარმოს ფილიალი, ს/კ: 205368029) (შემდგომში წოდებული, როგორც „კომპანია“) წარმოდგენილი პროექტის მენეჯერის ქსიანგიანგ დაის სახით,	„Hunan Road and Bridge Construction Group Company Ltd – Branch in Georgia“ (Branch of foreign Enterprise, I/C: 205368029) (hereinafter referred to as the "Branch") represented by the Project Manager – Xiangyang Dai,
„მესაკუთრე“ და „კომპანია“ შემდგომში ერთად მოიხსენიება, როგორც „მხარეები“, ხოლო ცალ-ცალკე კი, როგორც „მხარე“;	The Owners and the Company hereinafter referred to collectively as the Parties and separately as the Party;
მხარეები შეთანხმდნენ გააფორმონ წინამდებარე შეთანხმება (შემდგომში წოდებული, როგორც „შეთანხმება“) შემდეგნაირად:	The Parties agreed to make a legally binding form of the relationship between them and to sign this Agreement (hereinafter referred to as the "Agreement");
გათვალისწინებით იმ ფაქტისა, რომ მხარეთა შორის სხვადასხვა დროს დადებულია მიწის იჯარის ხელშეკრულებები, რომლითაც განსაზღვრულია მხარეთა (მეიჯარე/მოიჯარე) უფლებამოსილებები და პასუხისმგებლობები,	Considering the land lease agreements concluded between the parties at different times, which define the rights and responsibilities of the parties (lessor/lessee),
1. მიუხედავად ცალკეული სახელშეკრულებო დათქმებისა და პირობებისა, მესაკუთრეები ვადასტურებთ, რომ თანახმა ვართ შენარჩუნდეს კომპანიის მიერ ჩვენს საკუთრებაში არსებულ მიწის ნაკვეთებზე მოწყობილი ბეტონის ზედაპირი, ღობეები და მთისპირას აღმართული კონსტრუქცია.	1. Beside the individual contractual reservations and conditions, the owners confirm and agree to maintain the concrete surface, fences and hillside construction constructed by the company on the plots of land owned by the owners.
2. იმ შემთხვევაში, თუ საქართველოს გზების დეპარტამენტის, ან სხვა სახელმწიფო სტრუქტურის მიერ კომპანიას მაინც დაევალება მიწის ნაკვეთების აღდგენა/რეკულტივირება ან მისი პირვანდელ მდგომარეობაში მოყვანა,	2. if the Roads Department of Georgia or another state organ requests from the company to restore/recultivation the land plot or restore it to its original state, the company will be obliged to fulfill such instruction/deed and the owners will not have any complaints in this regard.

კომპანია ვალდებული იქნება დაემორჩილოს ასეთ მითითებას/განკარგულებას და მესაკუთრეებს არანაირი პრეტენზია ამასთან დაკავშირებით არ წარმოეშობათ. 3. წინამდებარე შეთანხმებაზე ხელის მოწერის შემდეგ ბეტონის ზედაპირზე, ღობეებსა და მთისპირას აღმართული კონსტრუქციაზე საკუთრების უფლება გადადის მიწის ნაკვეთის მესაკუთრეებზე და შესაბამისად, კომპანია იხნის პასუხისმგებლობას აქედან წარმოშობილ (ბეტონის ზედაპირი, ღობეები და მთისპირას აღმართული კონსტრუქცია) ყველა საკითხზე და მესაკუთრეები თავად გადაწყვიტენ ყველა აქედან გამომდინარე საკითხს. 4. წინამდებარე შეთანხმება ძალაში შედის 2023 წლის — მხარეთა მიერ ხელმოწერის მომენტიდან. 5. წინამდებარე შეთანხმება განიმარტება და წესრიგდება ქართული კანონმდებლობის შესაბამისად. 6. მხარეები თანხმდებიან მასზედ, რომ ყველა ღონის იხმარენ, რათა მოლაპარაკების მეშვეობით შეთანხმებით მოაგვარონ ნებისმიერი უთანხმოება და დავა, წარმოქმნილი მათ შორის შეთანხმების ან მასთან დაკავშირებული საკითხების ირგვლივ. 7. თუ მხარეები ვერ შეძლებენ სადავო საკითხების შეთანხმებას, ნებისმიერ მხარეს დავის გადაწყვეტის მიზნით შეუძლია მიმართოს საქართველოს სასამართლოს. 8. შეთანხმება დადებულია ქართულ და ინგლისურ ენაზე. ქართულ და ინგლისურ ვერსიას აქვთ თანაბარი იურიდიული ძალა. ქართულ და ინგლისურ ტექსტს შორის შეუსაბამობის არსებობისას უპირატესობა მიენიჭება ინგლისურ ტექსტს. შეთანხმება დადებულია 2 ვგზემპლარად, თითო დოკუმენტი თითოეული მხარისთვის. 9. მესაკუთრეები ადასტურებენ, რომ წინამდებარე შეთანხმების საგანი სრულად გასაგებია მათთვის და შეესაბამება მათ ნებას. შეთანხმების ხელმოწერა განხორციელდა მხარეთა მიერ ნების თავისუფალი გამოვლენის შედეგად და არცერთი მხარე არ იმყოფება რაიმე სახის ზეწოლის ქვეშ. 10. საკითხები, რომელიც არ არის მოწესრიგებული წინამდებარე შეთანხმებით, წესრიგდება	3. After signing the present agreement, the ownership right to the concrete surface, fences and the construction built on the mountainside is transferred to the owners of the land plots, and accordingly, the company will bear no responsibility for all issues outcoming from this matter (concrete surface, fences and construction erected on the mountainside) and the owners themselves will take care of all the issues arising from it. 4. The present agreement enters into a force from --- 2023 after signing by the parties. 5. The present Agreement shall be interpreted and governed by Georgian legislation. 6. The Parties guarantee that they shall use their best efforts to resolve any dispute or controversy which may arise out of the Agreement or issues related to the Agreement, by way of negotiations. 7. If the Parties fail to agree on the disputable issue, any Party may seek dispute resolution in the court of Georgia. 8. The Agreement is concluded in Georgian and English languages. The Georgian and English versions of the Agreement have the equal legal force. In case of contrary/ discrepancy between the English and Georgian versions, the English version shall prevail. The Agreement is executed in 2 counterparts, one per each Party. 9. The owners confirms that the subject of the present Agreement is completely understandable to them and corresponds to their will. The agreement was signed as a result of free expression of will by the parties and neither party is under any kind of pressure. 10. Issues that are not regulated by the present Agreement shall be regulated in accordance with the current legislation of Georgia.
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საქართველოს მოქმედი კანონმდებლობის შესაბამისად.	Signatures of the Parties:
მხარეთა ზელმოწერები	The Owner
მესაკუთრეები	
ივანე სეფიაშვილი	Ivane Sopiashvili
	
ფილიალი	The Branch
მისამართი: ქ. თბილისი, ვაზისუბნის ქ. 36	Address: City Tbilisi, Vazisubani str., 36
ელ.ფოსტა: hnrh.ge@gmail.com	E-mail: hnrh.ge@gmail.com
ქსიანგიანგ დაი	Xiangyang Dai
	