

Semi-annual Environmental Monitoring Report

Project Number: 49257-001

Reporting period: January - June 2021

#6 Semestral Report

July 2021

Georgia: East - West Highway (Khevi-Ubisa Section) Improvement Project

Loan No 3715 - GEO

(Financed by the Asian Development Bank)

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Abbreviations

ADB	Asian Development Bank
AP	Affected Person
BOD	Bio-Chemical Oxygen Demand
BP	Batching Plant
CAREC	Central Asia Regional Economic Corridor
CC	Construction Contractor
COD	Chemical Oxygen Demand
CSCS	Consultancy Services for Construction Supervision
CSC	Construction Supervision Consultant
CSEMP	Contractor's Contract Specific Environmental Management Plan
dB (A)	Decibel
DO	Dissolved Oxygen
EIA	Environmental Impact Assessment
EIB	European Investment Bank
EMP	Environmental Management Plan
EMR	Environmental Monitoring Report
ESR	Environmental Sensitive Receiver
GRM	Grievance Redress Mechanism
HS	Health & Safety
HSE	Health Safety and Environment
IEE	Initial Environmental Examination
IES	International Environment Specialist
IFC	International Finance Corporation
MAC	Maximum Admissible Concentration
MoEPA	Ministry of Environmental Protection and Agriculture
MoESD	Ministry of Economy and Sustainable Development
NCN	Non-Conformance Notice
NCR	Non-Conformance Report

NFA	National Forest Agency
NOC	No Objection Certificate
OSHA	Occupational Safety and Health Administration
PPE	Personnel Protective Equipment'
PAPs	Project Affected Persons
PIU	Project Implementation Unit
QC	Quality Control
RD	Road Department
RoW	Right of Way
SC	Supervision Consultant
SEMP	Site Specific Environmental Management Plan
SFF	State Forest Fund
SPS	Safeguard Policy Statement
STD	Sexually Transmitted Diseases
TSS	Total Suspended Solids
VG	Village Governor

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1. INTRODUCTION

1.1 Preamble

1. This report presents the Bi- annual Environmental Monitoring review of East - West Highway (Khevi-Ubisa section) Improvement Project for the period of January to June 2021.
2. This report is the 6th Semi-Annual EMR for the E-60 highway (Khevi-Ubisa section) improvement project.

1.2 Headline Information

3. 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. 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
4. 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 winter time, basically in the form of snow and frost and geologically complex area with mixed forest and riverine ecosystems.
5. 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

6. The official Commencement date for the Project has been set July 22, 2019; however, the contractor started Project preparatory work in May 2019 with the consent of RD representative on 16.05.2019.

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

7. 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.
8. 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.

9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. In addition to that project includes 6 underpasses for rural roads, 4 animal corridors, and 19 culvers.

Figure 1: Location of Project Area



15. The project is classified as **category A** for the environment under ADB’s Safeguard Policy Statement (2009). Project implementation period is July 22,2019 - July 06, 2022.

16. 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 EIA approval was received on 19-11-2018 by MoEPA.

2.2 Project Contracts and Management

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

Table 1: Project information

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	1080 days

Original Completion date	July 06, 2022
Expired time	729 days
Remaining time	351 days
Defects Notification Period	2 years
Contract Price (GEL)	GEL 732,296,478.02(BID PRICE INCLUDED VAT18%)

16. 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

Package	Scope	Contractor	Signed	Approval Date			Environmental personnel		Civil Work		Progress as of	
				SSEMP	COVID-19 HSMP	ERP	Environmental officer	Health and Safety officer	Start	End	31 Dec 2020	30 Jun 2021
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	20-11-2028	August 13,2019	18 Nov 2020	18 Nov 2020	Levan Inashvili	Dadashi Kukhalashvili	22July 2019	(6 July 20220)	15.43%	27.25%
	Main camp construction	LLC INNOVATOR	2 Apr 2019						2 Apr 2019	24 Sept 2019	100%	
	Pile foundation construction	Shas argrupi Co., Ltd	27 Oct 2019						27 Oct 2019	23 Apr 2020	100%	

	Pile foundation construction	Aravet Ltd	10 Feb 2020						10 Feb 2020	29 Aug 2020	100%	
	Pile foundation construction	Ismail Road Co., Ltd	13 Mar 2020						13 Mar 2020	25 Sept 2020	100%	
	Steel beam factory camp	Kartli 2013 LTD	30 Apr 2020						30 Apr 2020	31 Jul 2020	100%	
	Khevi community center	JSC "Samsheneblo Satsarmo Gaertianeba Imereti"	7 May 2020						7 May 2020	1 Sept 2020	100%	
	Retaining wall construction	Ismail Road Co., Ltd	29 May 2020						29 May 2020	25 Sept 2020	100%	
	Retaining wall construction	VORDAT GEORGIA LLC	24 Jun 2020						24 Jun 2020	In Progress	20%	60%
	Cap beam construction	VORDAT GEORGIA LLC	1 Oct 2020						1 Oct 2020	In Progress	20%	55%

	Concrete beam prefabrication	SIMAL PREFABRIC LLC	29 Oct 2020						29 Oct 2020	In Progress	10%	47%
	Subgrade slope protection mesh installation	"SAQALPMS HENI" LLC	25 Oct 2020						25 Oct 2020	In Progress	30%	90%
	Tunnel final lining construction	SIMAL PREFABRIC LLC	10 Jan 2021						10 Jan 2021	In Progress	20%	80%
	Pile foundation construction	Branch of AEGIS HOLDINGS, INC.PTE.LTD in Georgia	13 Feb 2021						30 Mar 2021	In Progress	40%	80%
	Transportation and installation of concrete beam	JM Company LLC	4 Mar 2021						4 Mar 2021	In Progress	0%	35%
	Micro-pile construction	EGEZEMİN İNŞAAT MÜHENDİSLİĞİ	5 Feb 2021						5 Feb 2021	In Progress	0%	60%

		İK TİCARET AŞ.										
	Culvert construction	VORDAT GEORGIA LLC	20 Feb 2021						20 Feb 2021	In Progress	0%	70%
	Bridge substructure construction	VORDAT GEORGIA LLC	23 Mar 2021						23 Mar 2021	In Progress	0%	50%
	Tunnel equipment and lighting	Iveria Group Ltd	15 Apr 2021						15 Apr 2021	In Progress	0%	10%
	Culvert construction	Branch of AEGIS HOLDINGS, INC.PTE.LTD in Georgia	18 Apr 2021						18 Apr 2021	20 Jun, 2021	0%	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

17. 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 SEMB;
- 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 SEMB.

18. 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.

19. 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.

20. Contact details of ADB, CC, SC and RD representatives are given in Table 3 below:

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

Organization	Position	Name	Nationality
ADB	Environmental Specialist (Safeguard)	Ninette Pajarillaga npajarillaga@adb.org	
	ADB/RETA International Environmental Safeguards Consultant	Keti Dgebuadze Tel: +995 322 250619 Mob: +995 577 232937 E-mail: ketdgeb@yahoo.com	Georgian

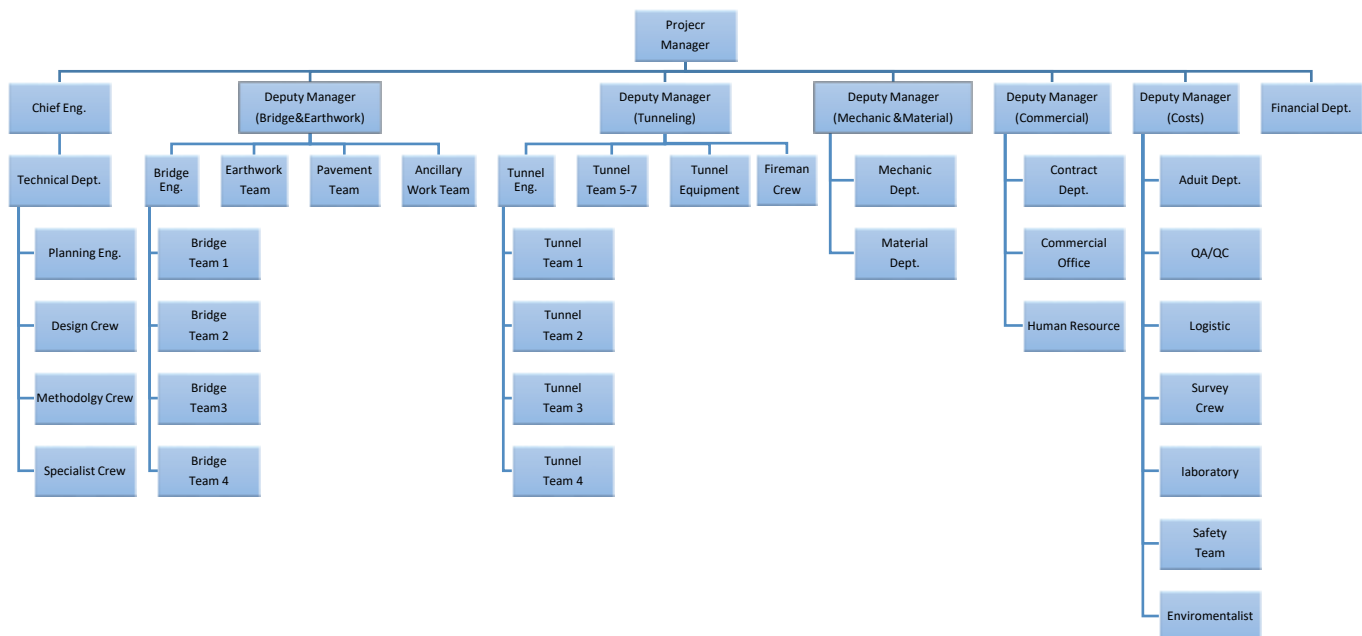
		kdgebuadze.consultant@adb.org	
	Associate Safeguards Officer Georgia Resident Mission	Nino Nadashvili +995 595 070442 nnadashvili@adb.org	Georgian
Client/ Borrower	Environmental Specialist of RD	Luiza Bubashvili likabubashvili@yahoo.com 595 219 141	Georgian
	Head of Environmental Unit of RD	Gia Sopadze sopgia@gmail.com 599 939 209	Georgian
CSC	International Environmental Specialist	Kashif Bashir Cell: +995 558 151173 Email: bashir.kashif@gmail.com	Canadian
	Environmental Expert	Bidzina Peradze Cell: +995 577 17 20 78 Email: bperadze@gmail.com	Georgian
Contractor	Project Manager	Dai_Xiangyang 599463199 hnr.ge@gmail.com	Chinese
	Environmental Specialist	Levan Inashvili 591199991 inashvili@gmail.com	Georgian

21. 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,
- 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.

22. 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.
23. Responsibility of daily 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. The project organization chart for key management staff of HNRB is provided below in Figure 2:

Figure 2: Contractor Project Management Staff



2.3 Project Activities during Current Reporting Period

24. Currently project is at construction stage; contractor is carrying out the main construction activities with the development of auxiliary facilities. The following construction activities are being undertaken during this monitoring and reporting period at different sections of the Project:

- **Tunnelling:**
 - TUN-2004-AT-T Mined excavation and preliminary supporting 399m.
 - TUN-2006-AT-A Mined excavation and preliminary supporting 196m.
 - TUN-2006-TA-A Mined excavation and preliminary supporting 223.7m.
 - TUN-2007-AT-A Mined excavation and preliminary supporting 367.5m.
 - TUN-2007-TA-A Mined excavation and preliminary supporting 283.7m.
 - TUN-2008-AT-T Mined excavation and preliminary supporting 213.8m.
 - TUN-2008-TA-T Mined excavation and preliminary supporting 242.8m.

- TUN-2009-AT-A Mined excavation and preliminary supporting 624.2m.
 - TUN-2009-TA-A Mined excavation and preliminary supporting 546.4m.
 - TUN-2010-AT-T Mined excavation and preliminary supporting 606.5m.
 - TUN-2010-TA-T Mined excavation and preliminary supporting 500.6m.
- **Bridges:**
 - BRI-2102-AT completed.
 - BRI-2103-AT completed.
 - BRI-2104-AT completed.
 - BRI-2105-AT completed.
 - BRI-2106-AT completed
 - BRI-2107-AT Pile foundation、 Pier column、 cap beam completed.
 - BRI-2109-AT P3/P4/P5/P6 Pier column completed.
 - BRI-2109-TA P2/P4/P5/P6/P7/P8/P9 Pier column completed.
 - BRI-2110-AT P3-P12 Pier column completed; AT P3-P10 cap beam completed.
 - BRI-2110-TA P4-P12 Pier column completed; AT P4-P10 cap beam completed.
 - BRI-2111-AT AB1/P1/P2 Abutment and Pier column completed1 cap beam completed.
 - BRI-2111-TA AB1/P1/P2 Abutment and Pier column completed1、 P2 cap beam completed.
 - BRI-2112-AT Abutment and Pier column、 cap beam completed.
 - BRI-2112-TA Abutment and Pier column、 cap beam completed.
 - BRI-2113-AT
AB1/P1/P2/P3/P6/P7/P9/P10/P11/P12/P13/P14/P17/P18/P19/P20/P21/P22/P23 completed.
 - BRI-2113-TA AB1/P1/P2/P3/P9/P10/P11/P12/P13/P17/P18/P19 completed.
 - BRI-2114-AT P2/P3/P4/P5/P6/P7 completed.
 - BRI-2114-TA P2/P3/P4/P5/P6 completed.
 - BRI-2115-AT AB1/AB2 Pile foundation completed.
 - BRI-2115-TA AB1/AB2 Pile foundation completed.
 - BRI-2116-AT AB1/AB2 completed; P1/P2 Pile foundation completed.
 - BRI-2116-TA AB1/AB2 completed; P1/P2 Pile foundation completed.
 - BRI-2117-AT AB1 Abutment foundation completed; P3 Spread foundation completed.
 - BRI-2117-TA P2 Spread foundation completed.
 - **Culvert:**
 - K0+520 AT Culvert completed.
 - K0+578 AT Culvert completed.
 - K0+767 AT Culvert completed.
 - K5+403 AT Culvert completed.
 - K9+500 Culvert completed.
 - K11+150 TA Culvert completed.
 - **Retaining Wall:**
 - 2512# Retaining wall completed.
 - 2510# Retaining wall completed.
 - **No. 1 Interchange:**
 - Earthwork excavation 400000 m3; 2521&2523# Retaining wall completed.
 - **No. 2 Interchange:**

- 2522# Retaining wall completed.

25. Progress of works carried out during the reporting period is summarized in table 4 below:

Table 4: Construction progress during reporting period (January – June 2021)

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	0	0	
Interchanges	km	3.53	0	0	
Demolitions	mc	55561	55561	100	
Cutting trees of more than 0.1 m diameter	Lump Sum	1	0.70	70.0	
Bill No.3 Earthworks					
Topsoil removal	m ³	38206.0	34385.4	90	
Excavation of soil mechanically	m ³	420950.0	385964	91.69	
Excavation of soil by means of blasting	m ³	561240	437036	77.87	
Construction of embankment	m ³	564550.0	0	0	
Construction of dividing strip	m ³	29660.0	0	0	
Slope protection	m ³	18720	0	0	
Bill No.4 Culverts and drainage					
Box culvert – 2.0m X 2.5m	Linear meter	805	360	44.72	Under Construction
Box culvert – 4.0m X 2.5m	Linear meter	83	68	81.93	
Box culvert on local roads	m ³	681.63	0	0	
Bill No.5 Bridges 35 sets					
BRI 2101 TA	set	1	0	0	
BRI 2101 AT	set	1	0	0	
BRI 2102 TA	set	1	0	0	
BRI 2102 AT	set	1	0.95	95	
BRI 2103 TA	set	1	0	0	
BRI 2103 AT	set	1	0.95	95	
BRI 2104 TA	set	1	0	0	

BRI 2104 AT	set	1	0.95	95	
BRI 2105 TA	set	1	0	0	
BRI 2105 AT	set	1	0.95	95	
BRI 2106 TA	set	1	0	0	
BRI 2106 AT	set	1	0.94	94	
BRI 2107 TA	set	1	0	0	
BRI 2107 AT	set	1	0.91	91	
BRI 2108 TA	set	1	0	0	
BRI 2109 TA	set	1	0.14	14	
BRI 2109 AT	set	1	0.17	17	
BRI 2110 TA	set	1	0.35	35	
BRI 2110 AT	set	1	0.27	27	
BRI 2111 TA	set	1	0.36	36	
BRI 2111 AT	set	1	0.31	31	
BRI 2112 TA	set	1	0.79	79	
BRI 2112 AT	set	1	0.87	87	
BRI 2113 TA	set	1	0.22	22	
BRI 2113 AT	set	1	0.22	22	
BRI 2114 TA	set	1	0.13	13	
BRI 2114 AT	set	1	0.15	15	
BRI 2115 TA	set	1	0.62	62	
BRI 2115 AT	set	1	0.62	62	
BRI 2116 TA	set	1	0.33	33	
BRI 2116 AT	set	1	0.28	28	
BRI 2117 TA	set	1	0.31	31	
BRI 2117 AT	set	1	0.23	23	
BRI 2118 TA	set	1	0.08	8	
BRI 2118 AT	set	1	0.08	8	
BRI 2121 L1	set	1	0.11	11	

BRI 2122 L2	set	1	0.02	2	
BRI 2123 LR1	set	1	0	0	
Bill No.6 Tunnels 20 sets					
TUN 2001 TA	set	1	0	0	
TUN 2001 AT	set	1	0.61	61	
TUN 2002 AT	set	1	0.84	84	
TUN 2003 TA	set	1	0	0	
TUN 2003 AT	set	1	0.76	76	
TUN 2004 AT	set	1	0.64	64	
TUN 2005 TA	set	1	0.13	13	
TUN 2005 AT	set	1	0.12	12	
TUN 2006 TA	set	1	0.58	58	
TUN 2006 AT	set	1	0.70	70	
TUN 2007 TA	set	1	0.21	21	
TUN 2007 AT	set	1	0.25	25	
TUN 2008 TA	set	1	0.32	32	
TUN 2008 AT	set	1	0.37	37	
TUN 2009 TA	set	1	0.23	23	
TUN 2009 AT	set	1	0.29	29	
TUN 2010 TA	set	1	0.41	41	
TUN 2010 AT	set	1	0.49	49	
TUN 2011 TA	set	1	0	0	
TUN 2011 AT	set	1	0	0	
Bill No.7 Equipment for Tunnels 20 sets					
TUN 2001 TA	set	1	0	0	
TUN 2001 AT	set	1	0	0	
TUN 2002 AT	set	1	0	0	
TUN 2003 TA	set	1	0	0	
TUN 2003 AT	set	1	0	0	

TUN 2004 AT	set	1	0	0	
TUN 2005 TA	set	1	0	0	
TUN 2005 AT	set	1	0	0	
TUN 2006 TA	set	1	0	0	
TUN 2006 AT	set	1	0	0	
TUN 2007 TA	set	1	0	0	
TUN 2007 AT	set	1	0	0	
TUN 2008 TA	set	1	0	0	
TUN 2008 AT	set	1	0	0	
TUN 2009 TA	set	1	0	0	
TUN 2009 AT	set	1	0	0	
TUN 2010 TA	set	1	0	0	
TUN 2010 AT	set	1	0	0	
TUN 2011 TA	set	1	0	0	
TUN 2011 AT	set	1	0	0	
Bill No.8 Road Pavement					
Concrete pavement-Main road	km	24.391	0	0	
Sand and gravel mix pavement-local road	m3	2629	0	0	
Asphalt pavement, secondary road-1	km	1.5	0	0	
Construction of market area	m3	2645	0	0	
Bill No.9 Road furniture					
Main roads	Km	24.391	00	0	
Secondary roads	km	3.06	0	0	
Interchanges	km	3.53	0	0	
Bill No.10 Interchanges					
Interchange-1	km	1.4	0	0	
Interchange-2	km	1.7	0	0	
Interchange-3	km	0.43	0	0	
Bill No.11 Relocation of Utilities					
Reconstruction of 35KV line	Lump Sum	1	0.35	35	

Reconstruction of 10KV line	Lump Sum	1	0.33	33	
Reconstruction of 0.4KV line	Lump Sum	1	0.48	48	
New construction power line	Lump Sum	1	0.33	33	
Bill No.12 Greenery					
Seeding of perennial grass, watering and further treatment	Sq.m	123339.00	0	0	
Planting of shrubs, watering and further treatment	Sq.m	22800.00	0	0	
Bill No.13 Retaining walls 16 sets					
Main roads	piece	12	0.55	55	
Interchange-1	piece	2	0.38	38	
Interchange-2	piece	1	0.42	42	
Interchange-3	piece	1	0	0	
Construction of Rip rap on CL203 RWA-2525	piece	1	0	0	
Bill No.14 Lighting					
Main roads	km	24.391	0	0	

2.4 Information on personnel working on construction site

26. Overall staff hired by the contractor up to June 2021 is given below (Table 5):

- Total number of employees - 1328
- Foreign staff – 401 (240 + 32)
- Local Georgian staff - 927 (712 + 164)

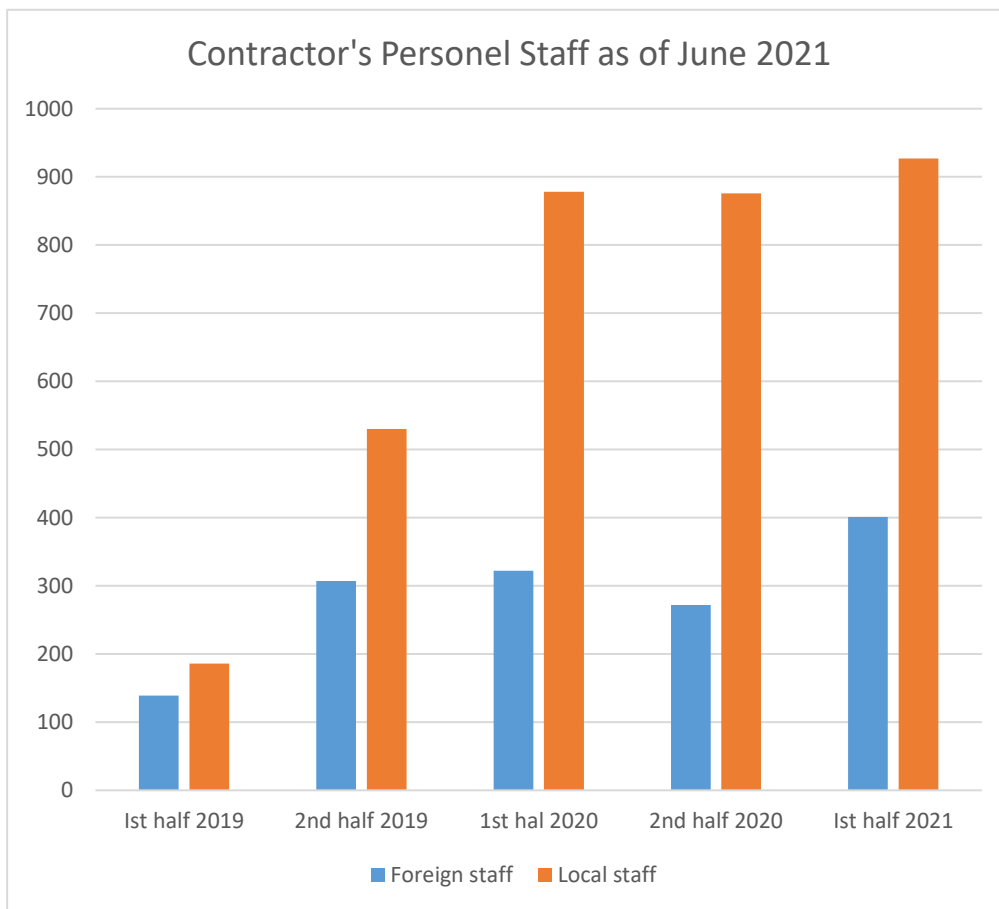
Table 5: Information of personnel working at site during reporting period

#	Position	HNRB		Subs		Total
		Foreigner	Local	Foreigner	Local	
1	Project Manager	1	0	0	0	1
2	Site Manager	11	0	8	3	22
3	Construction Engineer	22	8	12	6	48
4	Engineer staff	24	0	0	0	24
5	Technical office	4	0	0	0	4
6	Technicians	8	6	0	0	14

7	Skilled Labour	86	122	32	150	390
8	Unskilled Labour	23	82	0	289	394
9	Driver	0	126	0	25	151
10	Operator	11	138	0	10	159
11	Designer	2	0	0	0	2
12	Finance & Administration	9	10	0	0	19
13	Safety Officer	2	4	0	0	6
14	Environmental Manager	0	1	0	0	1
15	Foreman	28	23	15	47	113
16	Repairman	6	21	0	0	27
17	Secretary	0	8	0	0	8
18	Security	0	2	0	0	2
19	Mechanical Department	15	0	0	0	15
20	Tunnel works crew	147	376	0	0	523
21	Blasting crew	2	0	0	0	2
Total		401	927	67	530	1925

27. The graphical presentation of number of foreign and local staff hired by the contractor is shown in the figure 3.

Figure 3: Contractors Personnel as of June 2021



2.5 Description of Any Changes to Project Design

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

2.6 Description of Any Changes to Agreed Construction Methods

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

3. ENVIRONMENT SAFEGUARD ACTIVITIES

3.1 General Description of Environment Safeguards Activities

30. During the daily monitoring, the Engineer’s environmental specialists check the environmental impacts caused by the construction activities and the compliance with the requirements of EMP and conditions of contracts.

31. In case the non-compliance is detected (with the photo evidence) it is recorded, and the Contractor is being informed in written, in order to take corrective actions. If the Contractor fails to take the corrective actions in time, the NCR (Non-Conformance Report) is being issued and sent to the Contractor. NCR sent to the contractor during the reporting period are annexed as Annex 3.

32. The Engineer’s environmental specialists prepare the monthly and semi-annual reports that are being submitted to the RD. These reports depict the ongoing construction activities, environmental issues and the status of compliance.

33. Activities carried out by consultant during the monitoring period (international and national, respectively) is provided in Table 6 below.

Table 6. Environmental Safeguards Activities Carried out by CSC During Reporting Period (Jan – June 2021)

Environmental Safeguard Activities
The International Environmental Expert (Kashif Bashir) of Supervision Consultant (UBM)
<ul style="list-style-type: none"> - Field activities: Due to Covid-19 pandemics field visits were not possible for the International Environmental Expert. The field activities were monitored by establishing the HSE WhatsApp group between CSC and CC managed by International consultants. Monitoring of the non-compliances related to construction works include: switching ON for tunnel ventilations while workers inside the tunnels, wastewater discharge, air pollution, noise pollution, oil spills, concrete washout spill, chemical spills at site, wearing of the PPEs and other HSE related tasks, water sprinkling at access roads, waste handling at campsites and other project related facilities, sewage handling, arrangements to avoid river water pollution, rehabilitation works for spoil disposal areas, and issuing the NCRs for non-compliances observed with the help of National expert. Ensuring the compliance for all the non-compliances issues pointed out by the filed staff and other team members. - Review of SAEMR Prepared the Semi-annual report based on the non-compliances observed and NCRs issued during the reporting periods, corrective actions taken by the contractor and further recommendations made by CSC for the upcoming quarters. - Ensure the corrective actions are implemented by the deadline. Followed up with the CC for the Corrective action during the weekly progress meeting and by writing letters for the compliance.
The National Environmental Expert (Bidzina Peradze) of Supervision Consultant (UBM)
<ul style="list-style-type: none"> - Field Activities: Prepared the Checklist, monitored the campsites and active construction sites with CC environmental officer, gave instruction for the non-compliances observed in the field and issued NCRs along with corrective actions to be taken. Ensured the instrumental monitoring is being carried out by the certified laboratory for air, noise, ground water, surface water and vibration on monthly basis. - Monthly EMR: Coordinated with International Expert for preparation of monthly EMR and reviewed the CCs EMR and Instrumental monitoring reports - Ensure the corrective actions are implemented, followed up with the CC in weekly progress meetings to take corrective actions and replied the letters from RD and CC.

34. Environmental specialists of the contractor and the engineer are conducting weekly site visits to monitor the compliance of EMP. In addition to that HSE specialist of contractor and CSC are monitoring the compliance of PPEs, traffic safety and the other safety related issues on daily basis. Daily HSE report is the part of daily Quality Control (QC) Report.

35. GRM and HSE log books being maintained by engineer's social team and contractor's HSE team respectively. However, these good practices need to be maintained on continual basis.



3.2 Site Inspections/Audits




36. Frequent sites visits were carried out by the environmental experts and TL of the engineer of the following sites:




- Office and living campsites of the Contractor
- Casting yards of bridge beams
- Q/C lab territory


- Access roads
 - Spoil Disposal Areas
 - Tunnels
 - Bridges
 - Interchanges;
 - Concrete plants
 - Steel Workshop
 - Main Workshop
 - Explosive area
 - Crushing Plant
 - Spoil Disposal Sites
37. The method adopted for inspection include visual inspection, interview with workers and community and checking the accident records, permits obtained, daily and weekly quality control reports.
38. Identified non-conformances of the EMP and SEMP with corrective actions required and status of actions during the reporting are given in Table 7.



Table 7: Identified Non-Conformances (January - June 2021)



ID #	Affected Location	Date	Issue raised	Mitigation Required	Estimated time	Corrective Actions	Status of Action
1	TUN #9	Jan 2021	<p>Oil spill from the drum on the ground</p> 	<p>Oil drum need to be placed on drip tray and contaminated soil need to be collected, stored in hazardous waste area in bags and handed over to subcontractor</p>	<p>immediately</p>	<p>Drum removed Areas cleaned up Contaminated soil collected by the spill response team and transported to the temporary hazardous waste storage area in village Khunevi. The contaminated soil will be transferred to the licensed contractor LTD "Sanitary" for the final treatment.</p> 	<p>Closed</p>



2	TUN#10	Jan 2021	<p>Welder not wearing the PPEs as required for hot work jobs</p> 	<p>During welding jobs worker need to wear PPEs for hot work job including special gloves, special clothing and face protection shield</p>	immediately	<p>TBT conducted. Warning given to the workers. Workers are strictly monitored by HSE expert of Engineer and CC</p>	Closed
3	Bridge#7	Jan 2021	<p>Oxygen cylinders laid on the ground</p> 	<p>Oxygen cylinder to be placed in vertical position in cage and away from the any kind of lubricant/ oil</p>	Immediately	<p>Oxygen Cylinders collected and now special trolley being used to handle the oxygen cylinders</p> 	Closed
4	Interchange #1	Feb 2021	<p>Concrete spill on ground by concrete truck driver</p>	<p>Concrete spill needs to be removed and warning should be made to driver. Concrete</p>	immediately	<p>CC build the Concrete washout pits at interchange #1 and maintaining it by removing the sludge</p>	Closed



				washout to be thrown in the washout pits made at batching plants and different locations. Additional washout pit to be built in the vicinity of Interchange# 1			
5	TUN#1	Feb 2021	Machinery parts of breaker hammer placed on the ground 	Parts need to be stored in the area designated for scrap if not in use. Warning to supervisor Polluted ground needs to be collected and stored at hazardous storage area	Two weeks	Polluted ground collected; breaker hammer placed in the drip tray Supervisor warned Contaminated soil collected by the spill response team and transported to the temporary hazardous waste storage area in village Khunevi. The contaminated soil will be transferred to the licensed contractor LTD "Sanitary" for the final treatment.	Closed




				Drip trays to be provided for spare parts			
6	Subcontractor's campsite, TUN#1	Feb 2021	Poor housekeeping. Waste spread on the ground 	Waste needs to be removed and Bins to be provided	Immediately	Waste removed; Bins provided supervisor warned 	Closed




							
7	Bridge # 6	Feb 2021	<p>Open fire at the ground for heating purpose by the workers</p> 	Ash to be collected, workers to be warned and shelters with heating to be provided for workers	Two weeks	Ash removed, warned the workers. TBT conducted	Closed
8	TUN#9	Feb 2021	Chemicals mixing reservoir without secondary containment at Tunnel #9	Secondary containment required for	Two weeks	Sealed containment was arranged for the chemical mixer at Tunnel #9 to prevent ground contamination	Closed



				the chemical mixer		 	
9	Bidge#12 BP#2	March 2021	Concrete spill on ground by concrete truck driver	Concrete spill needs to be removed and waning	immediatel y	Concrete spill removed from the ground	Closed




				<p>should be made to driver. Concrete washout to be thrown in the washout pits made at batching plants and different locations.</p>		<p>Local supervisor warned</p> 	
10	TUN#10	March 2021	Disassembled metal parts placed on the ground	<p>Parts need to be stored in the area designated for scrap if not in use.</p> <p>Warning to supervisor</p>	Two weeks	Disassembled part removed from the site	Closed




							
11	Workshop#2 Bridge#16 TUN#9	March2021	<p>Poor housekeeping. Waste spread on the ground</p> 	<p>Waste needs to be removed and Bins to be provided.</p> <p>Waste needs to be segregated</p> <p>Hazardous waste to be stored in hazardous waste storage areas to be collected by Licensed Contractor "LTD Sanitary"</p>	Immediately	Waste removed Area cleaned up and handed over to subcontractor ; supervisor warned	closed




							
12	TUN # 7	March 2021	<p>Chemical Mixer (Hydrated lime) without secondary containment at TUN#7</p> 	<p>Secondary Containment to be provided for hydrated lime storage Container</p>	Two weeks	<p>Secondary containment was arranged</p> 	Closed
13	Bridge#10	March 2021	<p>Containers with Bitumen and hazardous waste placed on ground at Bridge#10</p>	<p>Secondary containment to be provided for the storage of</p>	One week	<p>Local supervisor and subcontractor's management warned and instructed to use secondary containment for the placement of bitumen containers</p>	Closed



				<p>bitumen to avoid accidental spill resulting in land contamination</p>		<p>Containers removed from the ground</p>	
14	TUN#9	March 2021	<p>Tunnel water being discharged directly to the River without pretreatment</p> 	<p>Sedimentation pond to be provided to trap the sediments from the tunnel water before discharging to River</p>	Two weeks	<p>Tunnel water being discharged through sedimentation ponds</p> 	Closed

15	SDS#7	March 2021	Topsoil stockpile at the disposal site 7, Khunevi is not fenced.	Topsoil need to be fenced	Two weeks	<p>Topsoil storage area at the SDS #7 fenced with geotextile and signs installed and watered from time to time.</p> 	Closed
16	Hazardous waste storage area village Khunevi	March, 2021	Large volume of used oil accumulated at the hazardous waste storage area in village Khunevi. Used shall be collected, transported and treated by the licensed contractor.	Used oil needs to be collected by the subcontractor	One week	<p>In total 9800 kg of used engine oil was collected by the licensed subcontractor LTD "Sanitary" from the hazardous waste storage area in village Khunevi for further treatment on March 9, 2021</p> 	Closed



							
17	TUN # 9 Access Road	April 2021	Concrete spill on ground by concrete truck driver 	Concrete spill needs to be removed. Contractor has to conduct refresher training for concrete mixer drivers and concrete pump operators regarding concrete washout on the site, Contractor must arrange sufficient size washout pit to avoid ground and water contamination	One Week	Spill removed. CC build the washout pit 	closed

							
18	TUN#10	April 2021	<p>Improper storage of Chemicals. Storage of hazardous material is not according to Project pollution prevention and state regulation about hazardous material storage and handling</p> 	<p>According to Georgian legislation and Project spill prevention Plan, all hazardous material containers must be placed in drip trays with 110% capacity of hazardous material placed in to the secondary containment.</p>	Two weeks	<p>Empty containers from the water reducing agent are reused for keeping and transporting the technical water. Respective stickers were placed on such containers.</p> 	Closed

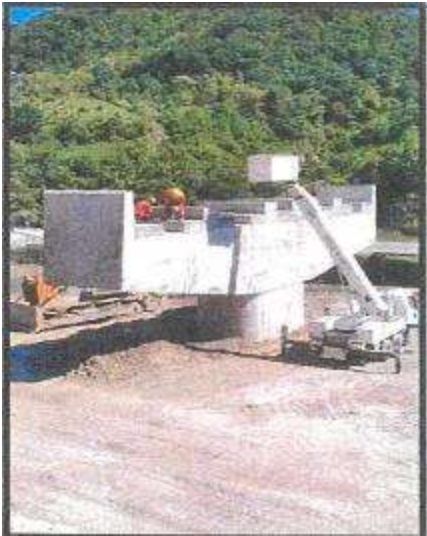

							
19	Retaining Wall 2512	April 2021	High voltage lines at unsafe distance above the ground 	High voltage lines shall be at appropriate, safe height from the ground	3 days	Excavated soil removed to maintain the safe distance to eliminate the arc effect 	Closed
20	TUN #8	April 2021	Working platform damaged due to the stone falling in the tunnel	Platform shall be repaired and proper engineering control shall be ensured	3 days	Guardrails of the platform repaired	Closed



							
21	TUN #5	April 2021	Trucks bringing mud on the highway	Access road shall be graveled	3 days	Mud removed from the highway. The access road paved with concrete	Closed





							
22	BRI #13	May 2021	Excavation without guardrails	Protective guardrails to be installed around the excavated area	3 days	Protective guardrails were installed around the excavation	Closed
							


							
23	TUN #10	May 2021	<p>No housekeeping at the site</p> 	<p>Mixed waste shall be segregated and removed from the site. Regular housekeeping shall be ensured.</p>	3 days	<p>All waste removed from the site. Regular inspection to be ensured</p>	Closed




						 	
24	BRI #12, P 5	May 2021	Working area not guarded. Workers not using safety harnesses. No lifelines, no guardrails.	Platforms must be installed to reach the working area	3 days	Fall protection guardrails were installed. Safety harnesses distributed to the workers.	Closed

				<p>safely. While working at heights follow safety requirements.</p>			
25	TUN 10	May 2021	<p>Improper storage of Chemicals. Storage of hazardous material is not according to Project pollution prevention and state regulation about hazardous material storage and handling</p>	<p>According to Georgian legislation and Project spill prevention Plan, all hazardous material containers must be placed in drip trays with 110% capacity of hazardous material or</p>	2 weeks	<p>Secondary containment is arranged. Chemicals removed and placed on impervious base.</p>	Closed

				<p>placed in to the secondary containment to avoid leakage on to the Ground</p>			
26	Project site	May 2021	<p>Newly hired workers do not have safety shoes and other personal protective equipment. Personnel receive PPE only after working a week. It is not allowed to work without wearing appropriate personal protective equipment.</p>	<p>According to the work safety norms it's required for personnel to wear an appropriate personal protective equipment at all times;</p>	immediate	<p>Mandatory PPE provided for new workers.</p>	Closed



			 				
27	Project site	June 2021	Material/aggregate storage areas not covered, resulting in loosing materials and generating dust during dry seasons	Storage areas shall be roofed.	2 weeks	Material storage areas roofed at the concrete batching plants #1, #2, #3 	Closed




							
28	Project site	June 2021	Dust generation due to intense vehicular movement crushing plant	Regular water sprinkling required and need to be maintained	Immediately	The access road is being regularly watered by sprinkler truck	Closed



							
29	TUN#9	June, 2021	Improperly arranged sedimentation pit at Tunnel #9. Tunnel water being discharged in to Dzirula river without settlement.	Sedimentation tank required to trap the sediments	Two weeks	New sedimentation pit arranged to collect groundwater discharged from Tunnel #9 AT 	Closed

39. There are three (03) pending non-conformances from last bi-annual report. The pending issues relates to (i) unsafe lifting operations; (ii) oxygen cylinders laid on ground and (III) Handling of oxygen cylinders. These are being fixed on regular basis and repeated due to workers behavior. Furthermore, the issue related to rehabilitation of SDS site is still pending from previous reports due to change in the design for rehabilitation.
40. Implementation Status of Corrective Actions proposed in the last environmental monitoring report (July-December 2020 is provided in the Table 8 below.

Table 8: Implementation Status of Corrective Actions proposed in the last environmental monitoring report (July-December 2020)

#	Issue	Required Action	Responsibility	Timing (Target Dates)	Description of Resolution and Timing (Actual)	If not yet resolved, indicate the reason why and specify further required action and timeframe.
1	<p>Concrete spill at the ground neat TUN#9</p> 	<p>Concrete washout needs to be removed and sealed washout pit required .</p> <p>Need to fence during construction</p> <p>Engineer notified CC through reference letter # 1330-CKUSE-UBM.GE dated 21-11-2020</p> <p>“Instruction for arrangement of Concrete washout pits and</p>	CC	Jan 2021	<p>Concrete washout removed</p> <p>Sealed washout pit constructed at the TUN# 9 for washing the concrete trucks and the pit was fenced</p>  <p>Issue was highlighted in November 2020 and resolved in January 2021</p>	Resolved
2	<p>Mismanagement of concrete washout at TUN#10</p>	<p>Concrete washout needs to be removed and sealed washout pit required</p>	CC	Dec 2020	<p>CC removed the concrete washout from the ground and build the Concrete washout pit in Jan 2021.</p>	Resolved

						
3	<p>Oxygen cylinders laid on the ground at TUN#2 and oil drum placed near the cylinder can cause serious consequences if come in to contact</p> 	<p>Oxygen cylinder should be placed away from the hazardous material Regular inspection required</p>	CC	Immediate	<p>CC removing the cylinder and placing in the cage; however, act being repeated at the other site due to workers behavior</p> <p>CC using special trolley to handle the cylinders for welding jobs</p>	<p>CC to conduct the trainings of the workers regarding safe handling of cylinders and strict enforcement required by the supervisors on permanent basis</p>

4	<p>Unsafe lifting equipment being used at steel Workshop N2</p> 	<p>Certified and proper equipment must be used for lifting, safety latch must be installed on the hooks</p>	CC	Immediate	<p>After identification of damaged chain hooks ,contractor provided proper and certified lifting equipment for steel workshop N2.</p> 	Resolved
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41. 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 9.

Table 9: Correspondence between SC and CC to resolve environmental issue including NCRs and corrective actions required during reporting Period

Date	Engineer Letter	Subject
09.09.2019	0118-CKUSE60-UBM-GE	Engineer HS Weekly Report Sep/06/2019
09.09.2019	0119-CKUSE60-UBM-GE	Engineer Social Resettlement Report Sep/02/2019
10.09.2019	0126-CKUSE60-UBM-GE	Non-conformance Report for July to August 2019 including danger places
24.09.2019	0170-CKUSE60-UBM-GE	Protection of water insulation on the bridge foundation
24.09.2019	0171-CKUSE60-UBM-GE	Dirty water for concreting (Nonconformity report)
25.09.2019	0173-CKUSE60-UBM-GE	Engineer HS Weekly Report Sep/13/2019 and Sep/20/2019
25.09.2019	0174-CKUSE60-UBM-GE	Engineer Social Resettlement Report Sep/12/2019
25.09.2019	0175-CKUSE60-UBM-GE	Environmental Monitoring Report for August 2019
11.10.2019	0177-CKUSE60-UBM-GE	Engineer H&S Report 30.09.2019
11.10.2019	0213-CKUSE60-UBM-GE	Engineer Social Resettlement Report 03.10.2019
29.10.2019	0280-CKUSE60-UBM-GE	About the accident at site
29.10.2019	0283-CKUSE60-UBM-GE	Engineer's suggestion for Grievance Form
01.11.2019	0295-CKUSE60-UBM-GE	Subcontractor approval for blasting vibration monitoring and measure for tunnels
05.11.2019	0303-CKUSE60-UBM-GE	Non-conformance Reports
11.11.2019	0330-CKUSE60-UBM-GE	Non-conformance Reports
12.11.2019	0331-CKUSE60-UBM-GE	Site Assessment Report for spoil disposal Area#9
20.11.2019	0355-CKUSE60-UBM-GE	H&S Reports

2.03.2020	0618- CKUSE60-UBM-GE	Necessary Vibration Monitoring
2.03.2020	0614-CKUSE60-UBM-GE	Removal of the Top natural soil without approval of Engineer between PK 91+00 - PK 94+00
6.03.2020	0632- CKUSE60-UBM-GE	The scheme for repairing the vault Collapse of TUN-2009 AT-A
6.03.2020	0635- CKUSE60-UBM-GE	Necessary Spring and Groundwater Monitoring
6.03.2020	0636- CKUSE60-UBM-GE	Treatment of Disposal Areas
11.03.2020	0641- CKUSE60-UBM-GE	Reminder regarding necessary vibration monitoring
19.03.2020	0659- CKUSE60-UBM-GE	Screening decision for implementation of works of the River Dzirula Bank protection in Kharagauli
25.03.2020	0673- CKUSE60-UBM-GE	Wrong Slope Cut of TUN-2002 Argveta Portals and Required Remedies
27.03.2020	0684- CKUSE60-UBM-GE	Arrangement of waste rock dumping area #12
2.04.2020	0691-CKUSE60-UBM-GE	Treatment Plan for Collapse at TUN 2004 K2+ 199
3.04.2020	0692-CKUSE60-UBM-GE	Necessary action to avoid blocking of a motorway access to village Koshki
7.04.2020	0710-CKUSE60-UBM-GE	HSE Action Tracking Register
8.04.2020	0722-CKUSE60-UBM-GE	Blasting Time
13.04.2020	0726-CKUSE60-UBM-GE	HSE Action Tracking Register
16.04.2020	0738-CKUSE60-UBM-GE	NCR No 147 Regarding the Loss of topsoil due to mixing with inert waste
27.04.2020	0761-CKUSE60-UBM-GE	Access to the section between Km 3,4 - Km 4,8; Km 5,8 - Km 6,1; Km 7,8 - Km 8,8; Km 9,0 - Km 9,8 da Km 11,8 - Km 11
30.04.2020	0770-CKUSE60-UBM-GE	NCR No 149 Regarding the Waste water discharged into the river and NCR No 150 Regarding the Fall protection does not installed
1.05.2020	0775-CKUSE60-UBM-GE	NCR No 151 Regarding the Fall protection does not installed and NCR No 152 Regarding the Generator installed on the ground
	0775-CKUSE60-UBM-GE	NCR No 151 Regarding the Fall protection does not installed and NCR No 152 Regarding the Generator installed on the ground
1.05.2020	0779-CKUSE60-UBM-GE	Spoil Disposal Area Assessment

4.05.2020	0793-CKUSE60-UBM-GE	NCR No 153 Regarding the sewage & waste water directly inlet to the river body
4.05.2020	0794-CKUSE60-UBM-GE	Training to crane operators and site supervisors
6.05.2020	0799-CKUSE60-UBM-GE	Uncompleted HSE issues ATR
6.05.2020	0802-CKUSE60-UBM-GE	#11 Dumping Area Arrangement
9.05.2020	0812-CKUSE60-UBM-GE	NCR No 155 Regarding the inert waste dumped at the side of the river without protection.
9.05.2020	0811-CKUSE60-UBM-GE	NCR No 155 Regarding the inert waste dumped at the side of the river without protection.
9.05.2020	0811-CKUSE60-UBM-GE	Remarks for dump sites #6, 7, 9 and 4-9
15.05.2020	0839-CKUSE60-UBM-G	NCR No 157 waste water discharged into the river
15.05.2020	0840-CKUSE60-UBM-GE	NCR No 156 Regarding the mixed waste dumped at the side of the river
19.05.2020	0843-CKUSE60-UBM-GE	NCR No 159 Regarding the Unsafe working conditions and NCR No 160 Regarding the unapproved the steel ribs and shotcrete application
20.05.2020	0860-CKUSE60-UBM-GE	SITE MINUTE No 17 regarding unsafe working condition and unapproved application at TUN 2006 TA-A
21.05.2020	0848-CKUSE60-UBM-GE	NCR No 161 Regarding the waste water discharged into the river and NCR No 162 Regarding the Inert waste dumped at the river bank
21.05.2020	0849-CKUSE60-UBM-GE	NCR No 163 Regarding the Polluted ground
21.05.2020	0860-CKUSE60-UBM-GE	River contamination
21.05.2020	0869-CKUSE60-UBM-GE	Arrangement of concrete wash out pits
9.05.2020	20200509-2	Justification of Alternative Spoil Disposal Locations
29.05.2020	0883/CKUSE60/UBM-GE	NCR No 169; NCR No 170; NCR No 171; NCR No 172 and NCR No 173
23.05.2020	0877-CKUSE60-UBM-GE	NCR No 164 Unsafe working conditions at TUN 2006 AT- A
03.06.2020	0890-CKUSE60-UBM-GE	Remarks for dump sites #6 & 7
13.06.2020	0912-CKUSE60-UBM-GE	Instructions for dump sites #6 & 7
13.06.2020	0913-CKUSE60-UBM-GE	NCR No 165; NCR No 174 and NCR No 175

19.06.2020	0918-CKUSE60-UBM-GE	NCRs No: 177; 181; 189 and 190
19.06.2020	0919-CKUSE60-UBM-GE	NCRs No: 176; 178; 179; 180; 182; 183; 184; 185; 186; 187; 188; 191 and 192
24.06.2020	0926-CKUSE60-UBM-GE	Incident Notification
26.06.2020	0934-CKUSE60-UBM-GE	Submittal of Completed CAR
26.06.2020	0939-CKUSE60-UBM-GE	NCR No 193 Regarding the Invert waste dumped at the river bank
26.06.2020	0940-CKUSE60-UBM-GE	NCR No 194 Regarding the Waste water discharged into the environment
27.06.2020	0941-CKUSE60-UBM-GE	Instruction On Waste Water Discharging
27.06.2020	0942-CKUSE60-UBM-GE	Remarks for crusher re-cultivation plan and top soil preservation
27.06.2020	0943-CKUSE60-UBM-GE	TUN 2009 AT-A Blasting Without Permission
3.07.2020	0954-CKUSE60-UBM-GE	Submission of CAR documents
6.07.2020	0956-CKUSE60-UBM-GE	NCR No 196 Regarding the not proper material installation
9.07.2020	0964-CKUSE60-UBM-GE	HSE Instructions by Road Department
10.07.2020	0967-CKUSE60-UBM-GE	NCRs No 198; 199; 201;202; 203; 204; 205; 206; 209; 212; 213; 215; 216 and 217
10.07.2020	0968-CKUSE60-UBM-GE	NCRs No: 197; 200; 207; 208; 210; 211; 214; 218; 219 and 220
10.07.2020	0969-CKUSE60-UBM-GE	Submission of CAR documents
11.07.2020	0974-CKUSE60-UBM-GE	Submit CVs and Certificates of HS Auditors
12.07.2020	0978-CKUSE60-UBM-GE	NCRs No: 221,222,223 and 224
14.07.2020	0979-CKUSE60-UBM-GE	Urgent Measures to be taken in terms of Providing Safe Working Area in Tunnels and at All Site
18.07.2020	0980-CKUSE60-UBM-GE	Resubmit CVs and Certificates of HS auditing
21.07.2020	0993-CKUSE60-UBM-GE	Certificate and Supporting Document of the HSE Auditor
22.07.2020	0998-CKUSE60-UBM-GE	Appointment of responsible personnel for scaffolding works

22.07.2020	1002-CKUSE60-UBM-GE	HSE requirement for bridge construction
23.07.2020	1005-CKUSE60-UBM-GE	MEPA Remarks for crusher re-cultivation plan and top soil preservation
24.07.2020	1010-CKUSE60-UBM-GE	NCRs No: 228; 229; 230; 231; 232 and 238
24.07.2020	1011-CKUSE60-UBM-GE	NCRs No 233; 234; 235; 236 and 237.
29.07.2020	1024-CKUSE60-UBM-GE	HSE requirement for bridge construction
29.07.2020	1025-CKUSE60-UBM-GE	RD and ADB requirements
1.09.2020	1091-CKUSE60-UBM-GE	NCRs No: 267; 268 and 269
1.09.2020	1092-CKUSE60-UBM-GE	NCRs No: 270; 271; 272; 273; 274; 275; 276; 277; 278 and 279
03.09.2020	1096-CKUSE60-UBM-GE	Remarks of Employer about the Road Safety
18.09.2020	1128-CKUSE60-UBM-GE	Labor safety
18.09.2020	1134-CKUSE60-UBM-GE	NCRs No 280; 281
19.09.2020	1135-CKUSE60-UBM-GE	Violation of the contract and incompetently or negligently act of Contractors Project Manager
22.09.2020	1137-CKUSE60-UBM-GE	Instruction on waste water discharging sub-camps
22.09.2020	1139-CKUSE60-UBM-GE	NCRs No: 282 and 283.
23.09.2020	1141-CKUSE60-UBM-GE	Risk assessment for tunnel portal & bridge pier works
24.09.2020	1143-CKUSE60-UBM-GE	Submission of Safety Equipment Inspection Schedule
25.09.2020	1153-CKUSE60-UBM-GE	HSE instruction use man lift for working at height
26.09.2020	1161-CKUSE60-UBM-GE	NCRs No: 284; 285; 286 and 287
28.09.2020	1166-CKUSE60-UBM-GE	Submission of CAR documents
30.09.2020	1167-CKUSE60-UBM-GE	Instructions for dump site #11
2.10.2020	1178-CKUSE60-UBM-GE	NCR No 288 regarding the Violations during the excavation and NCR No 289 regarding the working at height without fall protection

06.10.2020	1197-CKUSE60-UBM-GE	Comments on H&S Management Plan and Emergency Management Plan
06.10.2020	1199-CKUSE60-UBM-GE	NCR No 291 Regarding the partly dismantled scaffold in use, unsafe lifting, unsafe access
08.10.2020	1190-CKUSE60-UBM-GE	Unapproved dumping area
08.10.2020	1203-CKUSE60-UBM-GE	National Agency of State Property Remarks for tree cutting
08.10.2020	1204-CKUSE60-UBM-GE	Instruction on additional HSE staff
01.12.2020	1353-CKUSE60-UBM-GE	Method Statement for Slope Protection
02.12.2020	1360-CKUSE60-UBM-GE	Necessary actions to avoid possible damage to the residential houses located near to Tunnel N7
02.12.2020	1361-CKUSE60-UBM-GE	NCR No 310 regarding the Unsafe lifting equipment and NCR No 311 regarding the Violation of working at height safety requirements
03.12.2020	1363-CKUSE60-UBM-GE	Approval for Tree Cutting for Arrangement of SDS #11
03.12.2020	1364-CKUSE60-UBM-GE	Removal of Land Plots from the State Forest Fund for Arrangement SDS #11
03.12.2020	1365-CKUSE60-UBM-GE	Statuses for dump sites #6, #7 and #9
03.12.2020	1366-CKUSE60-UBM-GE	Updated Information on Unapproved Dumping Area in Vertkvichala
05.12.2020	1375-CKUSE60-UBM-GE	Topsoil Stocking
05.12.2020	1376-CKUSE60-UBM-GE	Tree Inventory
05.12.2020	1381-CKUSE60-UBM-GE	Readiness for Coronavirus
14.12.2020	1386-CKUSE60-UBM-GE	Necessary monitoring and mitigation measures for Ms. Nino Bliadze's residential area
05.01.2021	1427-CKUSE60-UBM-GE	NCR No 313 regarding the improper storage of oxygen cylinders
05.01.2021	1428-CKUSE60-UBM-GE	Submission of CAR documents 05.01.2021
14.01.2021	1445-CKUSE60-UBM-GE	GRL Trees Removal Permit and Government Requirements
14.01.2021	1447-CKUSE60-UBM-GE	NCR No 314 regarding the oil spill and NCR No 315 regarding the personnel without PPE
14.01.2021	1448-CKUSE60-UBM-GE	NCRs No 316; 317 and 318

19.01.2021	1452-CKUSE60-UBM-GE	Submission of CAR documents 19.01.2021
2/2/2021	1476-CKUSE60-UBM-GE	NCR No 323 Regarding the Waste water discharged in to the river
2/16/2021	1499-CKUSE60-UBM-GE	NCRs No 324 and 325
3/19/2021	1556-CKUSE60-UBM-GE	NCRs No 330; 331; 332 and 334
3/19/2021	1557-CKUSE60-UBM-GE	NCR No 333 regarding the Improper placement of the dissembled metal construction
3/24/2021	1582-CKUSE60-UBM-GE	Employer's Notice of Claim for Health Safety and Environmental Aspects
3/30/2021	1591-CKUSE60-UBM-GE	NCRs No 335; 336 and 337
09/04/2021	1601-CKUSE60-UBM-GE	NCRs No 338; 339 and 340
13/04/2021	1619-CKUSE60-UBM-GE	General Condition regarding the Health and Safety at the Site
17/04/2021	1640-KUSE60-UBM-GE	NCR No 342 regarding the Ground and water contamination with concrete and chemicals and NCR No 343 regarding the Poor Housekeeping on the Site
19/04/2021	1642-KUSE60-UBM-GE	NCRs No 344; 345; 346; 347 and 348
20/04/2021	1643KUSE60-UBM-GE	Remarks for Spoil Disposal Sites No 6, 7, 9, 11 and 12
24/04/2021	1648-KUSE60-UBM-GE	Written application of Contractor's Employee for unsafe working conditions
5/5/2021	1683-CKUSE60-UBM-GE	NCR No 349 regarding the Improper scaffolding and NCR No 350 regarding the Excavation without guardrails
5/12/2021	1707-CKUSE60-UBM-GE	NCRs No 351, 352 and 353
5/14/2021	1716-CKUSE60-UBM-GE	NCR No 354, 355 and 356
5/27/2021	1732-CKUSE60-UBM-GE	Requirement of Monitoring Document by Ministry of Environmental Protection and Agriculture for SDS-6
5/28/2021	1735-CKUSE60-UBM-GE	NCRS No 357, 358, 359 and 360

3.3 Issues Tracking (Based on Non-Conformance Reports)

42. Description of issues tracked during the reporting period is given in the Table 10. There are 03 pending issues from the previous semi-annual reports. Except the rehabilitation of completed spoil disposal sites and river protection work all others are being repeated by workers and are fixed on continual basis. Engineer has established strict monitoring system by using HSE WhatsApp group including all the supervisors and managers controlled by TL where all the violations are displayed with location and nature of non-

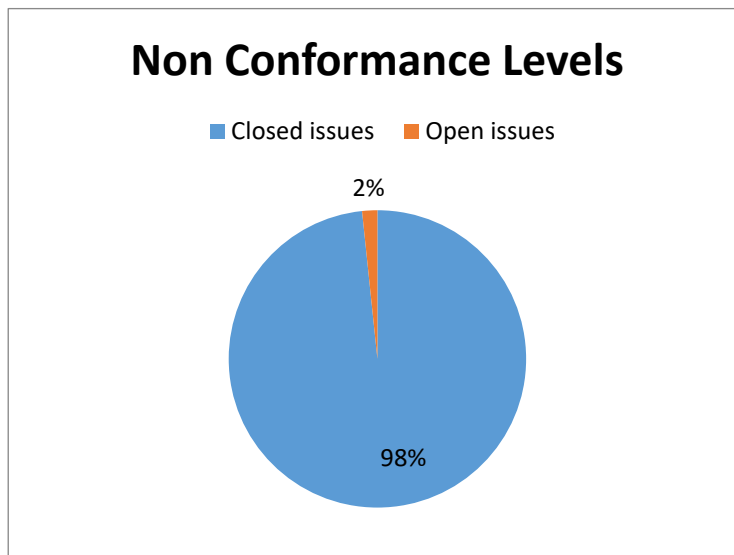
compliance and are fixed on daily basis. Regular trainings, TBT and tool box meetings are being conducted to change the workers behavior. Letter are also being issued by RD highlighting the environmental issues and grievances made by local residents and SC is reporting back to RD after the compliance.

Table 10: Summary of issue tracking during the project (January - June 2021)

Total number of issues for the Project	179
Number of open issues (for next Q)	03
Number of closed issues (during project life)	176
Percentage closed	98 %
Issues opened this reporting period	29
Issues closed this reporting period	29

43. Data on the number of closed and open issues is presented in Figure 4. This data is based on the issues that were observed and have been closed or remained open during the Project.

Figure 4: Non-Conformance levels during the Project



44. Out of one hundred seventy-nine (179) issues during the project life, one hundred seventy-six (176) issues were closed and few of them were partially mitigated or corrective action in progress requiring further improvement. Table 10 shows the number of emerged and closed issues during the reporting period. CC provided the information banners at spoil disposal areas, carrying sewage from septic tank on regular basis by using Cesspool truck, providing and maintaining the concrete washout pits, Improving housekeeping by collecting the municipal and hazardous wastes, collected the waste oil, monitoring the toxic gases levels inside the tunnels, switching on the ventilation while workers working inside the tunnels, taking appropriate measures against the Covid19 by provision of face masks and disinfections of the campsite.
45. These issues have been reported to contractor through NCRs, and Corrective Action Required (CAR) tracking register, presentations on NCRs and best practices to be adopted for the corrective actions and discussion during progress review meetings and minutes of meetings are officially recorded to follow up.

3.4 Trends

46. Most of the violations observed during the reporting period requiring special attention to resolve include: Oil spill from the drum placed on the tray at Tunnel #9, Welder not wearing the PPEs as required for hot work jobs at TUN# 10, Oxygen cylinders laid on the ground at bridge # 7, Access road bridge without guard rail, Electric cables not hanged properly on height at bridge # 7, excavation does not have protective guard rail, workers walking around during the lifting operation at bridge # 14, Improper storage of Hazardous material at TUN# 10, ground and water contamination from concrete and chemicals at batching plant, Deep excavation without guard rails, scaffolding not in accordance with HSE standards, poor housekeeping at the site and near river especially at TUN10, missing PPEs for newly hired workers. NCRs are being issued to contractor to take corrective actions.
47. Due to strict monitoring by Engineer's team lead by TL and training by CSC environmental team for the contractor's staff non-conformance issues are being fixed on daily basis and there is a continuous trend of declining the outstanding issues. Most of the issues are being fixed regularly; however, some are repeated due to workers behavior for which CC is conducting regular trainings, TBTs and Tool box meetings. Conclusively, CC is fixing non-compliances on regular basis, takes respective endeavor and apply the mitigation measures to resolve the non-compliances.

3.5 Unanticipated Environment Impacts or Risk

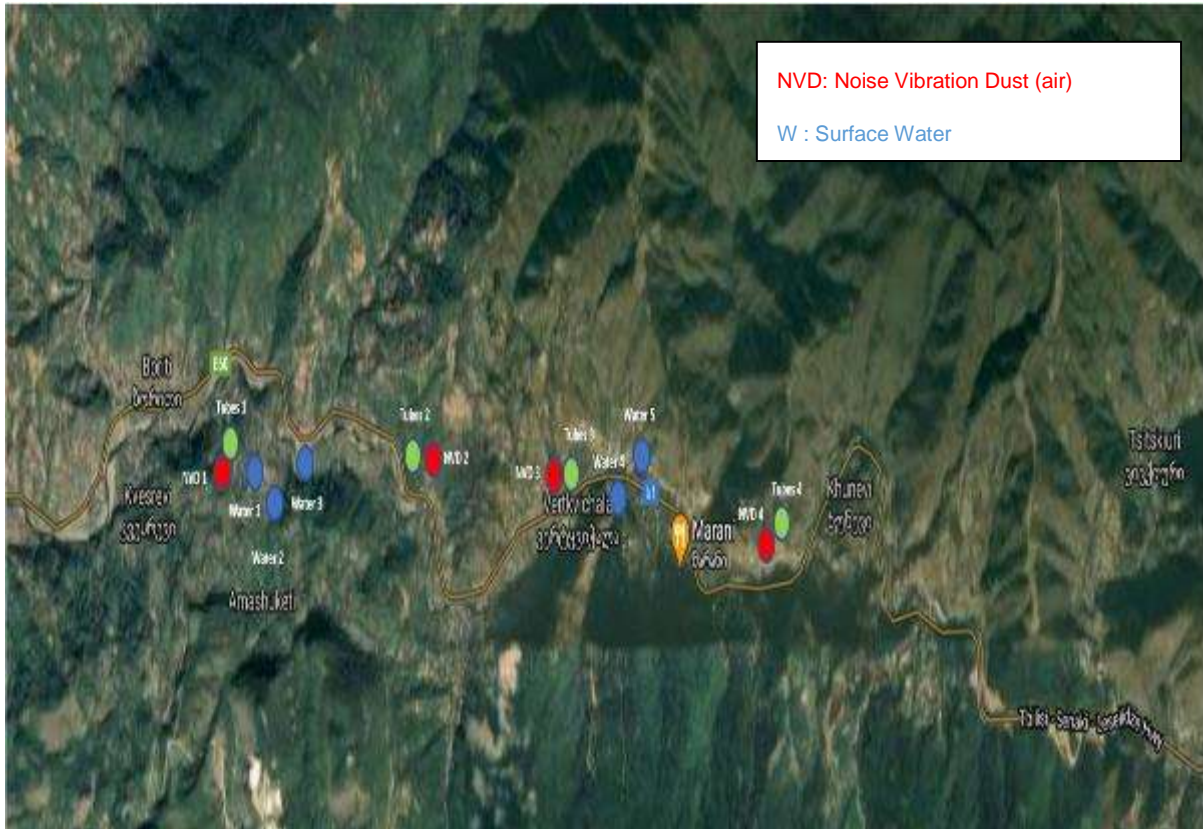
48. During this reporting period , unanticipated events of fourth wave of pandemic disease Corvid 19 were observed in Georgia having significant adverse impacts on human environment causing the delay in the progress works due to restricted movements. However, based on information provided by Contractor no positive case was detected during the reporting period from January 2021 to June 2021.

4. RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of the Monitoring Conducted During Current Period

49. The contractor has hired the certified laboratory DG Consultant and instrumental monitoring for noise, vibration, air, surface water, wastewater and ground water quality testing was carried out for the reporting period on monthly basis based on the frequency given in the EIA's Table 98 "Instrumental monitoring plan".
50. The sampling location for air, noise and vibration and water quality were selected considering the ongoing construction activities as shown in Figure 5. The objective was to evaluate the potential impacts on the environmental sensitive receptors resulting from the construction activities. The results of the instrumental monitoring are given in tabular form while, details are given in Annex 2.

**Figure 5: Location of sampling points for air noise & vibration and water quality
(January - June 2021)**



Ground Water Quality Monitoring

51. Ground water testing was carried out in January 2021 and sample collected from the Boriti campsite. The test results for Chemical and Microbiological parameters as indicated in table 11 were compared with Georgian Acceptable Limits (resolution of the Georgian government #58 on the "Approval of technical regulations of potable water") revealed that all the test parameters are within the range of acceptable limits and groundwater meets the requirements for the potable water in both cases. However, bottled water is being supplied by the CC on regular basis for drinking purpose in all the camps and active construction sites.

Table 11: Ground Water Analysis Results (Jan 2021)

#	Parameters	Measuring Unit	Georgian Acceptable Limits	Results Boriti Campsite
General Parameters				
1	pH	-	6-9	6.87
2	TDS	mg/l	1000(1500)	358
3	Conductivity	us/sm	-	415
4	Turbidity	NTU	2	0.85
5	Hardness	mg-eqv/l	7(10)	4.55
6	Calcium (Ca)	mg/l	140	78
7	Magnesium (Mg)	mg/l	85	7.8
8	Sodium (Na)	mg/l	200	0.39

9	Hydrocarbonate (HCO ₃ ⁻)	mg/l	-	259.25
10	Chloride (Cl ⁻)	mg/l	250	6.75
11	Sulphate (SO ₄ ⁻²)	mg/l	250	6.10
12	Nitrate (NO ₃ ⁻)	mg/l	50	<1.0
13	Nitrite (NO ₂ ⁻)	mg/l	0.2	<0.02
14	Iron (Fe Total)	mg/l	0.3	<0.02
Microbiological Parameters				
40	Total Coliforms	CFN in 300ml	not allowed	not detected
41	Escherichia coli	CFU in 300ml	not allowed	not detected
	Pseudomonas aerogenosa	CFU in 250ml	not allowed	not detected
	Streptococcus faecalis	CFU in 250ml	not allowed	not detected
	Sulfite-reducing anaerobes	CFU in 50ml	not allowed	not detected
	Mesophyle aerobes 37 °C and facultative anaerobes 22 °C	CFU in 1 ml	20	not detected
			100	not detected

Surface Water Quality

52. During the reporting period January – June 2021 for surface water sampling analysis, the surface water samples were collected from River Dzirula at different locations as shown in Table 12. The samples were taken 50 meters upstream and 50 meters downstream from the construction site to evaluate the water quality difference before and after the construction activities. The results as indicated in Table 12 show that there is no difference in the river water quality at 50 meters upstream and downstream from the construction activities
53. The Values of BOD5 <3 at different sampling locations of the river along the alignment shows that there is no waste stream/ sewage entering the River Dzirula parallel to construction activities. The values of the nitrates and phosphate are also within the acceptable range this means there are no chances of nutrient enrichment resulting in eutrophication or algal growth causing decrease in Dissolved Oxygen (DO) Levels of River Dzirula.
54. pH values around (7-8) throughout the season reveals that River Dzirula water is healthy for the Aquatic microorganisms as normally aquatic organism are severely stressed below 5.5 (acidic in nature). Moreover, at this pH (7-8) certain toxic

minerals such as aluminum, lead, mercury, are insoluble and relatively harmless. Overall taking in to account the UK Royal Commissions' classification of River Water quality, riv. Dzirula comes in to the category of clean river.

Table 12: Surface water results (January- June 2021)

Measurement in Jan 2021								
Location: Point #1: Near TUN#9 upstream, downstream riv. Dzirula								
#	Parameters	Point# 1		Point# 2		-	Unit	Applicable Standard MAC/IFC
		Upstream 50 meters	Downstream 50 meters	Upstream 50 meters	Downstream 50 meters	-		
<i>Physical & Chemical Tests</i>								
1	pH	7.42	7.50	-	-	-	pH	6.5-8.5
2	Total Suspended Solids (TSS)	<2.0	<2.0	-	-	-	mg/l	50
3	Nitrates (NO ₃)	1.15	2.8	-	-	-	mg/l	10 ^a Total N (NO ₃ +NO ₂)
4	Phosphate (PO ₄)	0.15	0.23	-	-	-	mg/l	2
5	BOD5	<3	<3	-	-	-	mg/l	6
6	COD	<3	<3	-	-	-	mg/l	30
8	Oil & grease	<5	<5	-	-	-	mg/l	10 ^a
<i>Microbiological</i>								
9	Total Coliform bacteria	10 000	11 900	-	-	-	MPN in 100 ml	-
Measurement in February 2021								
Location: Point #1: Point #1 (BRI 13) , upstream, downstream riv. Dzirula								
#	Parameters	Point# 1		-		-	Unit	Applicable Standard MAC/IFC
		Upstream 50 meters	Downstream 50 meters	-	-	-		
<i>Physical & Chemical Tests</i>								
1	pH	7.52	7.61	-	-	-	pH	6.5-8.5
2	Total Suspended Solids (TSS)	8.0	4.0	-	-	-	mg/l	50
3	Nitrates (NO ₃)	0.7	0.8	-	-	-	mg/l	10 ^a Total N (NO ₃ +NO ₂)
4	Phosphate (PO ₄)	0.54	0.66	-	-	-	mg/l	2
5	BOD5	<3	<3	-	-	-	mg/l	6
6	COD	<3	<3	-	-	-	mg/l	30

8	Oil & grease	<5	<5	-	-	-	mg/l	10 ^a
<i>Microbiological</i>								
9	Total Coliform bacteria	200 000	250 000	-	-	--	MPN in 100 ml	-
Measurement in March 2021 Location: Point #1: BRI # 14 upstream, downstream riv. Dzirula								
#	Parameters	Point# 1		Point# 2			Unit	Applicable Standard MAC/IFC
		Upstream 50 meters	Downstream 50 meters	Upstream 50 meters	Upstream 50 meter			
<i>Physical & Chemical Tests</i>								
1	pH	7.63	7.65	-	-	-	pH	6.5-8.5
2	Total Suspended Solids (TSS)	10.0	12.0	-	-	-	mg/l	50
3	Nitrates (NO ₃)	3.1	4.1	-	-	-	mg/l	10 ^a Total N (NO ₃ +NO ₂)
4	Phosphate (PO ₄)	0.37	0.44	-	-	-	mg/l	2
5	BOD ₅	<3	<3	-	-	-	mg/l	6
6	COD	<3	<3	-	-	-	mg/l	30
8	Oil & grease	<5	<5	-	-	-	mg/l	10 ^a
<i>Microbiological -</i>								
9	Total Coliform bacteria	170 000	200 000	-	-	-	MPN in 100 ml	-
Measurement in April 2021 Location: Point #1: (TUN #10) Upstream, Downstream riv. Dzirula								
#	Parameters	Point# 1		Point# 2		-	Unit	Applicable Standard MAC/IFC
		Upstream 50 meters	Downstream 50 meters	Upstream 50 meters	Downstre am 50 meter			
<i>Physical & Chemical Tests</i>								
1	pH	7.57	7.6	-	-	-	pH	6.5-8.5
2	Total Suspended Solids (TSS)	7.0	11.0	-	-	-	mg/l	50
3	Nitrates (NO ₃)	2.9	3.1	-	-	-	mg/l	10 ^a Total N (NO ₃ +NO ₂)
4	Phosphate (PO ₄)	0.57	0.65	-	-	-	mg/l	2
5	BOD ₅	<3	<3	-	-	-	mg/l	6
6	COD	<3	<3	-	-	-	mg/l	30

8	Oil & grease	<5	<5	-	-	-	mg/l	10 ^a
<i>Microbiological</i>								
9	Total Coliform bacteria	150 000	210 000	-	-	-	MPN in 100 ml	-
Measurement in May 2021 Location: Point #1: (TUN #10 Tributary) Upstream, Downstream riv. Dzirula								
#	Parameters	Point# 1		Point# 2		-	Unit	Applicable Standard MAC/IFC
		Upstream 50 meters	Downstream 50 meters	Upstream 50 meters	Downstream 50 meters			
<i>Physical & Chemical Tests</i>								
1	pH	7.35	7.48	-	-	-	pH	6.5-8.5
2	Total Suspended Solids (TSS)	6.0	5.0	-	-	-	mg/l	50
3	Nitrates (NO ₃)	3.4	3.7	-	-	-	mg/l	10 ^a Total N (NO ₃ +NO ₂)
4	Phosphate (PO ₄)	<0.06	<0.06	-	-	-	mg/l	2
5	BOD5	<3	<3	-	-	-	mg/l	
6	COD	<3	<3	-	-	-	mg/l	30
8	Oil & grease	<5	<5	-	-	-	mg/l	10 ^a
<i>Microbiological</i>								
9	Total Coliform bacteria	65000	80000	-	-	-	MPN in 100 ml	-
Measurement in June 2021 Location: Point #1: Near BP#3 Village Sakasria Riv. Dzirula								
#	Parameters	Point# 1		Point# 2		-	Unit	Applicable Standard MAC/IFC
		Upstream 50 meters	Downstream 50 meters	Upstream 50 meters	Downstream 50 meters			
<i>Physical & Chemical Tests</i>								
1	pH	7.42	7.50	-	-	-	pH	6.5-8.5
2	Total Suspended Solids (TSS)	<2.0	<2.0	-	-	-	mg/l	50
3	Nitrates (NO ₃)	1.15	2.8	-	-	-	mg/l	10 ^a Total N (NO ₃ +NO ₂)
4	Phosphate (PO ₄)	0.15	0.23	-	-	-	mg/l	2
5	BOD5	<3	<3	-	-	-	mg/l	6
6	COD	<3	<3	-	-	-	mg/l	30

8	Oil & grease	<5	<5	-	-	-	mg/l	10 ^a
<i>Microbiological</i>								
9	Total Coliform bacteria	10 000	11 900	-	-	-	MPN in 100 ml	-

a: IFC indicative values for treated sanitary sewage discharge

Noise and Vibration Monitoring

55. Sampling locations for noise levels were selected to evaluate the impact on the Noise sensitive receptors (NSR) due to various construction activities during the reporting period. The average equivalent noise levels (LAeq) recorded are indicated in table 13 and compared with the day time IFC limits 55 dB(A) for the residential areas and educational institutions.

56. Overall, the LAeq results vary between 50 dB (A) to 66 dB(A). According to outdoor indoor noise reduction (OINR) by Federal Highway Administration US department of Transportation “Noise Measurement Handbook (FHWA-HEP-18-065)” the noise reduction in the interior of the building with masonry structure and single glazed window would be up to 25 dB(A) while the windows are closed and with open windows reduction is 10 dB(A). This means that slightly higher noise level outside the building would not be felt inside the building by the residents.

Table 13: Average equivalent noise levels result during the monitoring period

Location	Average Equivalent Noise level (LAeq) Measurement dB(A)							IFC Standard d(BA)
	Baseline	Jan 2021	Feb 2021	March 2021	April 2021	May 2021	June 2021	
Local residence in village Vertkvichala	-	50.6	-	-	-	-	-	
Yard of the local residence in village Vertkvichala	-	-	60.1	54.0	-	-	-	
Yard of the local resident in village Sakasria	-	-	-	-	63.7	-	-	
Yard of the local resident in village Vertkvichala	-	-	-	-	66	-	-	

Yard of the local resident next to village Vertkvichala	-	-	-	-	-	58.3	-	
Yard of the Vashlevi public school village Sakasria	-	-	-	-	-	57.1	-	
Private Yard next to tunnel #10 in Village Sakasria	-	-	-	-	-	-	59.4	
Private Yard near the Interchange #1 in Village Vertkvichala	-	-	-	-	-	-	57.3	

57. Vibration results were monitored from January to June 2021 at the same locations of noise monitoring sampling points. Results of the vibrations as indicated in the table 14 reveals that the vibrational levels are insignificant and within the permissible range of the criteria set in the EIA and conditions of contract.

58. According to the criteria set in EIA based on BS 6472 and German standard DIN 4150-3: 1999 for damage to structures, there is no damage likely to structure building due to vibration at PPV less than 5 mm/sec, risk of cosmetic damage from 5-15 mm/sec and risk of structural damage at PPV greater than 15 mm/sec.

Table 14: Vibrational Monitoring Results (January – June 2021)

Location	Peak Particle Velocity (PPV) mm/sec			Displacement, mm; peak values		
	Longitudinal X	Transversal Y	Vertical Z	Longitudinal X	Transversal Y	Vertical Z
Measurement in January 2021						
Local residence in village Vertkvichala	0.292	0.292	0.292	11.84	11.84	11.84
Measurement in February 2021						
Yard of the local residence in village Vertkvichala	0.504	0.709	0.370	0.005	0.009	0.067

Measurement in March 2021						
Yard of the local resident in village Vertkvichala	0.347	0.314	0.251	0.003	0.002	0.009
Measurement in April 2021						
Yard of the local resident in village Sakasria	0.166	0.244	0.213	0.010	0.055	0.188
Yard of the local resident in village Vertkvichala	0.276	0.213	0.236	0.028	0.158	0.225
Measurement in May 2021						
Yard of the local resident in village Vertkvichala	0.150	0.166	0.213	1.609	2.804	6.739
Yard of the Vashlevi public school village Sakasria	0.158	0.134	0.158	2.546	0.234	3.952
Measurement in June 2021						
Private Yard next to tunnel #10 in Village Sakasria	0.197	0.402	0.402	0.004	0.012	0.012
Private Yard near the Interchange #1 in Village Vertkvichala	0.095	0.102	0.126	0.284	0.186	0.514

Air Quality Monitoring

59. The air quality monitoring sampling locations and test results are described in Table 15 during the reporting period from January – June 2021. As indicated in the table 15 dust levels along with the other criteria pollutant NO₂ and SO₂ are within the national limits for air quality in Georgia. However, Contractor will carry out the regular water sprinkling during dry and windy conditions at the hot spots for fugitive dust emission and has paved the road at the joining points of temporary access roads to E60 highway

Table 15: Air Quality Monitoring Results (Jan - June 2021)

Measurement in Jan 2021				
Indicator	Duratio n	National/ IFC limits	Unit	Residential area in Village Khunevi

Sulphur Dioxide (SO ₂)	7 days	50	µg/m ³	-
Nitrogen Dioxide (NO ₂)	7 days	40	µg/m ³	-
Particulate Matter (PM ₁₀)	30 minutes	50 ^b	µg/m ³	45
Particulate Matter (PM _{2.5})	30 minutes	25 ^b	µg/m ³	44
Total Suspended Particular matter (TSP)	30 minutes	500	µg/m ³	45

Measurement in February 2021

Indicator	Duration	National/ IFC limits	Unit	Residential Unit Next to Village Sakasria
Sulphur Dioxide (SO ₂)	7 days	50	µg/m ³	<1
Nitrogen Dioxide (NO ₂)	7 days	40	µg/m ³	11
Particulate Matter (PM ₁₀)	30 minutes	50 ^b	µg/m ³	21
Particulate Matter (PM _{2.5})	30 minutes	25 ^b	µg/m ³	21
Total Suspended Particular matter (TSP)	30 minutes	500	µg/m ³	21

Measurement in March 2021

Indicator	Duration	National/ IFC limits	Unit	Yard of the Vashlevi Public School in Village Sakasria
Sulphur Dioxide (SO ₂)	7 days	50	µg/m ³	<2
Nitrogen Dioxide (NO ₂)	7 days	40	µg/m ³	13

Particulate Matter (PM ₁₀)	30 minutes	50 ^b	µg/m ³	30
Particulate Matter (PM _{2.5})	30 minutes	25 ^b	µg/m ³	30
Total Suspended Particular matter (TSP)	30 minutes	500	µg/m ³	30

Measurement in April 2021

Indicator	Duration	National/ IFC limits	Unit	Village Sakasria	Village Vertkvichala
Sulphur Dioxide (SO ₂)	7 days	50	µg/m ³	<2	<2
Nitrogen Dioxide (NO ₂)	7 days	40	µg/m ³	13	16
Particulate Matter (PM ₁₀)	30 minutes	50 ^b	µg/m ³	14	13
Particulate Matter (PM _{2.5})	30 minutes	25 ^b	µg/m ³	14	13
Total Suspended Particular matter (TSP)	30 minutes	500	µg/m ³	14	13

Measurement in May 2021

Indicator	Duration	National/ IFC limits	Unit	Residential Area Village Vertkvichala	Yard of School, Sakasria	Vashlevi Village
Sulphur Dioxide (SO ₂)	7 days	50	µg/m ³	<2	<2	
Nitrogen Dioxide (NO ₂)	7 days	40	µg/m ³	14	14	
Particulate Matter (PM ₁₀)	30 minutes	50 ^b	µg/m ³	20	22	
Particulate Matter (PM _{2.5})	30 minutes	25 ^b	µg/m ³	19	22	
Total Suspended Particular	30 minutes	500	µg/m ³	20	22	

matter (TSP)				
Measurement in June 2021				
Indicator	Duration	National/ IFC limits	Unit	Residential Area in village Khunevi
Sulphur Dioxide (SO ₂)	7 days	50	µg/m ³	-
Nitrogen Dioxide (NO ₂)	7 days	40	µg/m ³	-
Particulate Matter (PM ₁₀)	30 minutes	50 ^b	µg/m ³	45
Particulate Matter (PM _{2.5})	30 minutes	25 ^b	µg/m ³	44
Total Suspended Particular matter (TSP)	30 minutes	500	µg/m ³	45

^b:IFC guidelines for 24 hours are being used as there is no standard for 30 minutes

4.2 Summary of Monitoring Outcomes

60. For regular monthly instrumental monitoring of the parameters for air, water and noise levels and control the pollution levels, the contractor has hired the DG consulting certified laboratory and carrying out testing on monthly basis from August 2019.
61. Groundwater samples were taken from direct source of pumping from Boriti campsite in January 2021. Test results showed that water test results for Chemical and Microbiological parameters were within the Georgian Acceptable Limits (resolution of the Georgian government #58 on the "Approval of technical regulations of potable water) and groundwater meets the requirements for the potable water.
62. Air quality tested at various locations along the project area and test results revealed that the air quality is good and dust levels and gaseous pollutant levels are within the national standards of Georgia.
63. There is no effect of construction activities on river Dzirula as revealed by the water testing at 50 m upstream and 50 downstream of construction activities and upstream at the start of the Project and downstream at the end of the Project.
64. River Dzirula water quality tests revealed that the stream water is good for aquatic organisms with pH ranging from 7-8 and the BOD, COD and the nutrients levels including phosphorous and nitrogen shows that there is no mixing of sewage/ waste in the river water parallel to construction activities and overall, the River comes in to category of clean river.
65. CC blocked the sewage effluent out flow from the septic tank and hired licensed contractor who is collecting the sewage by Cesspool Truck (individual entrepreneur Akaki Tskhadadze (18001007374) contracted since October, 2020) who is collecting the sewage by Cesspool Truck and discharges in Zestaponi sewage system, based on the permit from the United Water Supply Company of Georgia).

4.3 Material Resource Utilization

66. Up to June 2021, following materials were mobilized on site by the Contractor:

Table 16: Material mobilization

#	Materials	Unit	Delivered up to June 2021
1	Cement	ton	42.5R:109360.73 /52.5R:3081.02
2	Rebar	ton	26170.05
3	I-beam steel	ton	4324.4
4	Structural pipe	ton	1670.02
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

67. The scrap material is collected and stored only at designated areas.

4.4 Waste Management

68. Different types of hazardous waste are kept in the restricted area (fenced on impervious base with roof) before transporting by the licensed waste transportation/treatment company (LTD "Sanitary"). Information regarding the generation of waste during reporting period is given in the Table 17.

Table 17: Waste management

#	Domestic/Hazardous Waste & Sewage	Estimated Volume	Storage Area	Licensed Company
1	Household waste	780 m ³	Camp sites, Workshops, Construction sites	Kharagauli Municipality (Kharaguldasuftaveba)
2	Sewage water	168 m ³	Septic tanks	LTD Sanitary
3	Used tires	1820 kg.	Temporary waste storage area at the Workshop	LTD Sanitary
4	Hydraulic and used oil	1290 liters	Temporary waste storage area at the Workshop	LTD Sanitary

5	Waste paints and varnishes	4.2 liters	Temporary waste storage area at the Workshop	LTD Sanitary
6	Chemical additive tanks	55 pcs	Temporary waste storage area at the Workshop	LTD Sanitary
7	Oil drums	50 pcs	Temporary waste storage area at the Workshop	LTD Sanitary
8	Printer tonner	2.6 kg.	Temporary waste storage area at the Workshop	LTD Sanitary
9	Absorbents (e.g., oil filters, polluted clothes and materials)	28.2 kg.	Temporary waste storage area at the Workshop	LTD Sanitary
10	Medical Waste	4.5 kg.	Temporary waste storage area at the Workshop	LTD Sanitary

4.4.1 Current Period

69. 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 2021 are given below:

Estimated spoil generation: 2,250,000 m³

Estimated spoil reuse for embankments: 330,000 m³

Spoil needs to be disposed of: 1,920,000 m³

Excavated spoil material up to June 2021: 1, 015,100 m³

70. Due to technical and financial considerations, the rehabilitation designs for the SDS #6, SDS #7 and SDS #9 were changed and resubmitted to MoEPA for their approval in December, 2020. Respective permits for updated designs of the SDS #6, SDS #7 and SDS #9 were granted in May, 2021. Furthermore, due to technical considerations decision was made to expand the SDS #11. Updated design and screening application were submitted to the Ministry for their approval.

71. Activities to construct river protection facilities according to updated (as agreed with the Ministry of Environmental Protection and Agriculture of Georgia) designs of the SDS #6, SDS #7 and SDS #9 are in progress

4.5 Health and Safety

72. The Contractor's HSE team: Mr. Zhen Nania (HSE Manager), Mr. Zheng Yulin (HSE Supervisor) Mr. Dadashi Kukhalashvili (HS Advisor), Mr. Alexandre Chitadze (HS

trainer) and Viktor Rusedski (HS Specialist) are at the site. Project management and HSE management team responsible for maintaining safety and protection against HSE accidents and are available on-site on daily basis. HSE log book is being maintained by the contractor and attached as Annex 6.

73. The Engineer has mobilized local HS specialists - Mr. Zaal Giorgadze and Nodar Tsikarishvili .

4.5.1 Community Health & safety

74. No incident reported involving community members or no traffic incident was recorded during the reporting period. Contractor appointed night shift HSE specialist Mr. Viktor Rusedski to control safe work practice during night shift works. Contractor has appointed flagmen to control the traffic while vehicles entering and exiting the construction site.
75. Contractors appointed security officers on all construction site entrances and installed CCTV camera control. Contractor provided 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. Moreover, during winter the contractor appointed road safety department employees and two snow removing bulldozer for full time to remove snow from E-60 highway.
76. Contractor covid-19 response team members conducting daily control of the employee's body temperature. Contractor providing all necessary covid-19 protective equipment for employees, sub-contractor and visitors.

4.5.2 Occupational Health & Safety

77. Daily safety inspection of construction site is being conducted by HSE representatives as a continuous process. HSE specialist 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. HSE representatives preparing related safety documentation for the project such as: HS work procedures, RA as a part of method statements.
78. 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 purchase certified scaffolding equipment for bridge pier construction works.
79. 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.

Table 18: Work related accidents reported during the reporting period (Jan-June 2021)

#	Date	Description	Measures Taken	Follow up
1	03.06.2021	June 03 2021 around 10:00 am, accident occurred at tunnel#7 site in Kharagauli region, village Khunevi. HNRB employee Gela Barbakadze required by his site supervisor to install damaged tunnel ventilation pipe on the wall about 5 m at	Employee was moved to safe location by site workers from the accident area. Emergency 112	H&S team conducted TBT regarding incident for tunnel #7 employees. Construction tunnel team informed and restricted to use heavy equipment (excavator, loader) for

		<p>height from the ground level. Site supervisor did not provide any scaffolding or fall prevention arrangements for safe working practice, instead of that used excavator, to stand on a bucket for reaching pipe installation area. After some time during installation process employee realized that excavator bucket starts to disconnect from the main stick of the excavator, there was a high possibility he would fall down on the ground simultaneously with bucket, so in this moment he decides to jump down from height. Employee jumped down about 5 m from height and landed on his right foot causing him injury such as broken heel.</p>	<p>called for assistance. First aid provided for the injured employee on site by company doctor. Emergency team 112 transferred injured employee to the nearest hospital.</p>	<p>working at heights in tunnels.</p> <p>Construction tunnel team required to use only proper scaffolding for working at heights.</p>
2	30.06.2021	<p>30 June 2021, around 15:00 pm accident occurred at N13 bridge area (small concrete slab production workshop) near by the village Vertkvichala. Employee Giorgi Rikadze was conducting steel wire twisting works by using metal banding machinery, during the working process he held pack of wires with his right hand and pushed the start button, suddenly he realized that right hand was stuck between wires. After realizing his hand stucked employee used the physical force to remove right hand from the steel wires which caused scratches and few cuts to his fingers.</p> <p>Employee did not sustain any broken finger or nail injuries during this accident.</p>	<p>Emergency 112 called for assistance. First aid provided for the injured employee on site by company doctor. Emergency team 112 transferred injured employee to the nearest hospital.</p>	<p>H&S team conducted TBT regarding incident for bridge N7 employees.</p> <p>Employees on site given all necessary recommendations to pay more attention while conducting similar works.</p>

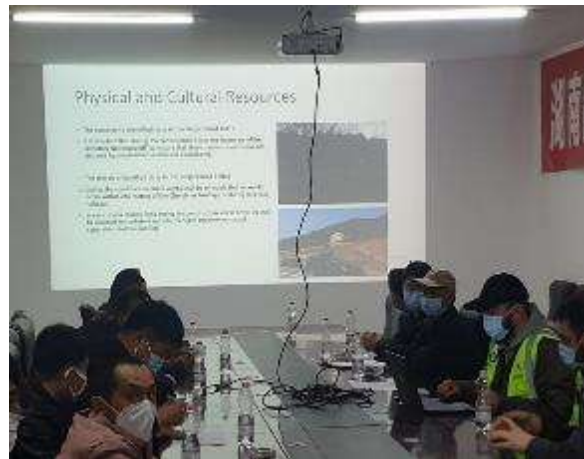
80. Trends related to the accidents reported during the reporting period are given in Table 19.

Table 19: Types of accidents reported (January – June 2021)

Accident Type	Reporting Period (Jan – June 2021)	Total
Near Miss	0	0
Accident Minor	0	0
Accident Major	2	2

4.6 Trainings

81. Induction training on environmental protection issues (including waste management, spill response, air pollution, noise and vibration, species and habitats etc.) was conducted for the new workers from China on March 28, 2021, April 9, 2021 and April 11, 2021. TBTs and tool box meetings were conducted at the site regarding safety and environment protection and maintain good housekeeping practices on regular basis (attendance sheet attached as Annex-5).
82. HSE induction trainings and TBTs conducted for 2518 workers by June, 2021 (including specific trainings on Working at heights - 1370, Traffic safety for flagmen - 47, Lifting and rigging - 70, First aid - 35, Covid19 awareness training - 1598, Spill response 6, Housekeeping and waste management – 62 etc.).



4.7 Grievance Redress Mechanism and Complaints

83. A total of 70 grievances were received either directly from the local community or through RD since the commencement of the Project, as reflected in Annex-4 of the report. From the total 70 received grievances, 40 related to Damaged structure / Assets, 12 complaints logged were pertinent to design issue/inclusion in LARP, 14 restriction or loss of Access, 2 Loss of Business, 1 complaint is about HSE Concern and 1 related to the verbal agreement of land plot. Out of 70 grievances, 38 have been resolved, 12 are forwarded to RD for necessary action and 20 are forwarded to the Contractor for their necessary remedial actions.

5. FUNCTIONING OF SSEMP

5.1 SSEMP Review

84. 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.

85. 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).

86. 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. Taking in to account the unanticipated event of outbreak of pandemic infectious disease of COVID 19 causing large number of people sick and reported deaths, travel restrictions, lockdowns, workplace hazard , and facility closures. CC prepared Risk Assessment Covid-19, Updated COVID-19 Protection Plan. In addition to that Emergency Response Plan (ERP) and Health and Safety Management Plan were also updated and all these documents submitted to RD as per requirement of ADB in November 2020.

6. GOOD PRACTICES

6.1 Best Practices Adopted

87. Following best practices are being adopted by the contractor due to site inspections, issuance of NCRs and follow up by the engineer and training of contractor management staff and commitments made by the Project manager during the weekly project preparatory meetings and progress meetings headed by the engineer:
- Information banners were installed at the spoil disposal sites #6,7,9,11 and 12.
 - CC Carrying the sewage from septic tank on regular basis by using Cesspool truck
 - CC building the concrete washout facilities at various places at the site
 - All types of waste are regularly collected and transported from the temporary storage areas at different construction areas (including the main campsite, sub-camp site #1, #2, #3, #4, batching plant sites #1, #2, #3) and workshop areas .
 - 9800 kg of used engine oil was collected by the licensed subcontractor LTD “Sanitary” from the hazardous waste storage area in village Khunevi for further treatment on March 9, 2021 .
 - Ventilation for the tunnels is always ON when workers are inside the tunnels and CC monitoring it
 - CC improved the HSE procedure and strict monitoring observed during the reporting period
 - CC carrying out instrumental monitoring on regular basis
 - CC taking appropriate measure against the Corvid 19 and employees are being provided with new face masks on daily basis
 - Regular tool box meetings and onsite training of the workforce and conducting TBT for waste handling, pollution prevention and effective housekeeping.
 - CC providing the secondary containment for the chemical mixer on each tunnel
 - CC paved the road at the joining points of temporary access roads to E60 highway

7. SUMMARY AND RECOMMENDATION

7.1 Summary

- During the reporting period, the construction works activities are being carried out for the development of tunnels portal, tunnel excavation, tunnel blasting, steel reinforcement, bridge pilings, excavation work for interchange and construction of sealed washout pits
- HSE induction trainings and TBTs conducted for 2518 workers by June, 2021 (including specific trainings on Working at heights, Traffic safety for flagmen, Lifting and rigging, First aid, Covid19 awareness training, Spill response, Housekeeping and waste management etc.).
- A total of 70 grievances were received either directly from the local community or through RD since the commencement of the Project. Out of 70 grievances, 38 have been resolved, 12 are forwarded to RD for necessary action and 20 are forwarded to the Contractor for their necessary remedial actions
- Most of the violations observed during the reporting period requiring special attention to resolve include: Oil spill from the drum placed on the tray Tunnel #9, Welder not wearing the PPEs as required for hot work jobs , Oxygen cylinders laid on the ground ,Access road bridge without guard rail, Electric cables not hanged properly on height ,

excavation does not have protective guard rail, Workers walking around during the lifting operation, Improper storage of Hazardous material, Ground and water contamination with concrete and chemicals at batching plants, Deep excavation without guard rails, scaffolding not in accordance with HSE standards, poor housekeeping at the site and near River, missing PPEs for newly hired workers. NCRs are being issued to contractor to take corrective actions.

- The contractor showed willingness to resolve the issues, especially, related to take measures to fight against COVID 19, developing concrete wash out pits, managing oil spill, provision and enforcement to wear of PPEs, strict compliance of safe work practices, provision of hazardous material storage area and strict control of refueling only permitted at the workshop
- CC is fixing non-compliances on regular basis, takes respective endeavor and apply the mitigation measures to resolve the non-compliances. CC improved the HSE procedure and strict monitoring observed during the reporting period

7.2 Recommendations

88. Following bullets summarize the recommended mitigation measures which contractor is required to apply in the 3rd and 4th quarter of 2021 to meet the requirements furnished in the EMP and conditions of the contract at this stage of the project:

- Oil drums need to be placed on drip tray and contaminated soil need to be collected, stored in hazardous waste area in bag and handed over to subcontractor – Q3-Q4 2021
- During welding jobs worker need to wear PPEs for hot work job including special gloves, special clothing and face protection shield– Q3-Q4 2021
- Noncompliance regarding laying of oxygen cylinder is being repeated instead of repeated reminders needs to be controlled and should be placed in cages away from lubricants – Q3-Q4 2021
- CC to cover dumpers during the windy and dry season – Q3-Q4 2021
- Guard rail to be provided at all the bridges for safety of vehicles and workers and guard rail should be stable enough to stand against appropriate load in rain – Q3-Q4 2021
- Lifting operation should be followed by safety requirement by marking the restricted area – Q3-Q4 2021
- Remove the trash from various places at site and maintain the clean and tidy conditions – Q3-Q4 2021
- Drip trays shall be prepared to place machinery parts and power generators to prevent pollution of the ground and regular inspection shall be ensured – Q3-Q4 2021
- Regular watering shall be arranged to suppress the fugitive dust emissions – Q3-Q4 2021
- Sludge shall be removed on a regular basis from washout pits – Q3-Q4 2021
- Waste should be collected on regular basis and practice need to be maintained – Q3-Q4 2021
- Scrap and disassembled metal parts must be placed at the designated areas – Q3-Q4 2021
- Scaffolding should be in accordance with HSE standards – Q3-Q4 2021
- Storage of hazardous material in the designated areas – Q3-Q4 2021
- Newly hired workers should be provided with PPEs and trained in this regard – Q3-Q4 2021
- Construction of additional washout pits and washout out pits to be emptied on regular basis to avoid overflow resulting in river water contamination – Q3-Q4 2021
- Hazardous material to be placed in drip trays – Q3-Q4 2021

- Hydrated lime storage containers at all the tunnels must have secondary containment – Q3-Q4 2021
- Gravel the E-60 highway at the exit of the tunnels – Q3-Q4 2021
- Safe access to the bridges by providing hand rail to all stairs – Q3-Q4 2021
- Provision of hand rail to the sides of all the bridges to avoid falling from height hazard – Q3-Q4 2021
- Bitumen containers to be placed in drip trays – Q3-Q4 2021
- All the scrap material and disassembled metal parts must be placed at the designated areas – Q3-Q4 2021
- Electrical boxes to be closed at all the time – Q3-Q4 2021

ANNEXES

Annex 1: Project Pictures



Induction Training for HSE and Environment for Chinese staff



Environment and HSE training during March 2021



Vibration Monitoring being carried out at the site during reporting period



Noise Monitoring at the site



Ground water sample collection from Boriti Campsite



Air quality Monitoring at the site



Dust monitoring being carried out at the site



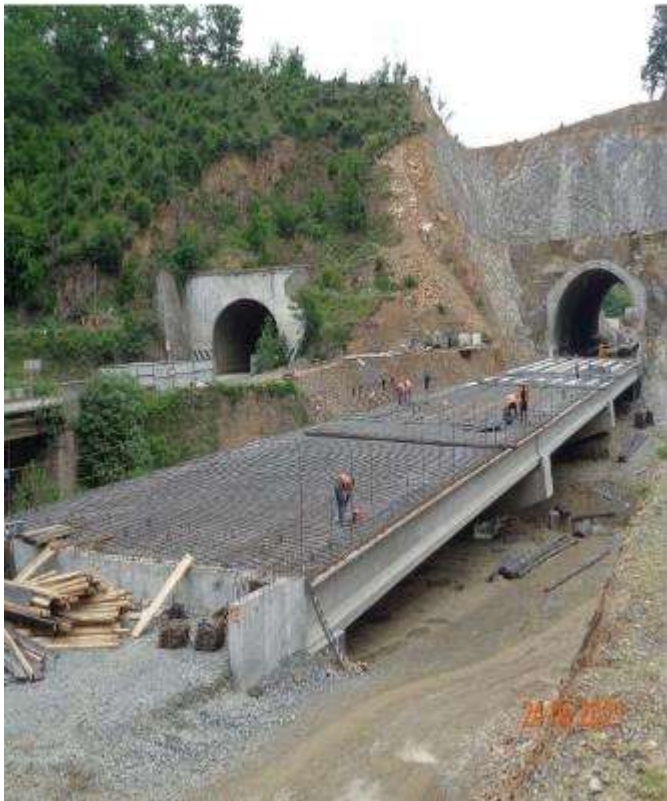
Information banners were installed at the spoil disposal sites #6,7,9,11 and 12.



Waste Oil collection from the site by Subcontractor in March 2021



BRIDGE 2102



A view of Bridge#2

BRIDGE 2103



A view of Bridge# 03

BRIDGE 2105



Construction view of bridge# 05

BRIDGE 2112



Construction of Bridge # 12

TUNNEL 2104



TUN#4 lighting and ventilation

TUNNEL 3000



TUN#10 Ventilation is ON



TUN 10 worker not wearing the Gloves

Culvert N2258



A view of Culvert # 2258



Guard rail required at Bridge# 5



High voltage lines can cause arc effect

Annex 2: Environmental Monitoring Test Results



HUNAN ROAD & BRIDGE CONSTRUCTION

ENVIRONMENTAL MONITORING

MONTHLY REPORT

FOR

KHEVI – UBISA PROJECT AREA

PREPARED BY:

DG CONSULTING

FINAL

FEBRUARY, 2021

DG Consulting Ltd

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1 General Information

Project Ref. Number: ##41540
Report Ref. Number: ##41540_19

Date of conducted Monitoring activities **10/02/2021**

Based on agreement, DG Consulting was committed to implement Water, Noise, Vibration and dust monitoring activities at Khevi – Ubisa highway construction project area.

DG Consulting has developed technical proposal for the monitoring session in accordance to the international guidelines for implementation of the Water, Noise, Vibration and dust monitoring activities.

The objectives of the monitoring activities were to check the water quality of river Dzirula, checking the Noise and vibration levels, along with dust concentration in ambient air during the construction activities. Also the monitoring activities included air quality monitoring using passive samplers (Tubes) for NOx and SOx.

2 Brief Description of conducted monitoring activities

Proposed scope for the monitoring activities defines the equipment and methodology for measurements as well as timing and conditions when the monitoring has to be implemented. For Khevi – Ubisa highway construction site, in total 4 water sampling points, 1 Noise, Vibration and Dust monitoring points and 1 Nitrogen Dioxide and Sulphur Dioxide tube installation points were selected. The general layout with noise, vibration and dust monitoring points, along with water sampling points and tube points is provided on Figure 2.1.2. The GPS Coordinates for the monitoring points are provided in the Table 2.1.1. Detailed description of monitoring methodology and used equipment is provided in Annex 4.

DG Consulting Field Team travelled to the Khevi – Ubisa Highway construction project area on 25th of January, 2021 to install the NOx and SOx sampler tubes at the predetermined monitoring points. On 10th of February, 2021 the team travelled again to the project area to conduct the monitoring activities, take water samples and remove the installed tube samplers.

The same day monitoring activities and water sampling was conducted the team returned to Tbilisi. The water samples were delivered to the DG Laboratory for analysis the same day they were taken. During the monitoring activities, the weather was sunny.

All the equipment for conducting the field monitoring activities, which require calibration before measuring, were calibrated as necessary, in the office or on the field before starting the measurements.

Table 2.1.1 GPS Coordinates of Monitoring Points

Monitoring Point	X	Y	Altitude
W ¹ _Point_#1_US ²	362722	4663070	358 m
W ¹ _Point_#1_DS ²	362698	4663095	358 m
W ¹ _Point_#2_US ²	358827	4663373	328 m
W ¹ _Point_#2_DS ²	358817	4663407	327 m
NVD ³ _Point_#1	358625	4663382	344 m
Tubes_P1	362955	4662841	369 m

- ¹ Water sampling point
- ² US – Upstream, DS - Downstream
- ³ Noise, Vibration, Dust measurement point



Figure 2.1.2 General layout of environmental monitoring points

3 Detailed Description of Monitoring Activities

Noise, Vibration and dust monitoring activities were conducted on one point. The air quality monitoring tubes were installed on one separate points. The NVD point was in the yard of the local residential house in village Amashuketi above Tunnel N10. The NOx and SOx tubes for Point 1 were installed in the yard of the local residential house in village Khunevi.

In total, four water samples were taken from river Dzirula. The point 1 samples from river dzirula were taken downstream and upstream from the construction area in villa Khunevi, and fro point 2 the samples were taken upstream and downstream of water discharge point coming from Tunnel N10.

The site photos for the conducted activities are provided below.



Figure 3.1.1 NVD Point #1



Figure 3.1.2 Tubes P1



Figure 3.1.3 Water sampling activities for W_Point #1_US (left) and W_Point #1_DS (right)



Figure 3.1.4 Water sampling activities for W_Point #2_US (left) and W_Point #2_DS (right)

4 Results of Monitoring Activities

4.1 Noise measurement

The monitoring activities were implemented during the working period. The noise measurement results are provided in the table below.

Table 4.1.1 Noise measurement results

	Point #1 (dba)
LA _{eq}	60.1
LA _{max}	79.4
LA _{min}	52.1
LA ₁₀	62.1
LA ₉₀	56.3

4.2 Vibration measurement

The vibration measurement results are given in the table below by points, but the vibration levels are not significant. The vibration waveform graphs and other detailed information are given in Annex 2.

Table 4.2.1 Vibration Monitoring Results for Point #1

Geophone	Tran	Tran	Tran	Unit
PPV	0.504	0.709	0.370	mm/s
ZC Freq	>100	39	30	Hz
Time (Rel. to Trig)	1766.229	1766.229	1766.231	sec
Peak Acceleration	0.044	0.042	0.026	g
Peak Displacement	0.005	0.009	0.067	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.3	Hz
Overswing Ratio	4.0	4.4	4.7	

Peak Vector Sum 0.870 mm/s at 1766.229 sec

4.3 Dust concentration measurement

As for the vibration, the dust concentration measurement results are also not significant. The average concentration levels are below the limits set by the Georgian Law, which is 0.150 mg/m³ (150 microgram (µg)). As it was requested the results are provided in microgram (µg).

Table 4.3.1 Dust concentration measurement results for Point 1

	PM10	PM2.5	Total
AVG	21	21	21
MIN	18	18	18
MAX	154	142	154

4.4 Air Monitoring

In order to determine Nitrogen oxide and Sulphur Dioxide levels in ambient air, two passive sampler tubes from Gradko Environmental (England) were installed, One for NO_x and one for SO_x for long term monitoring, according to the ordinance N38/n of Minister of Labour, Health and Social Affairs of Georgia, which determined maximum permissible concentration levels.

The exact date and time were recorded for calculating the exposure time of tubes after removing them from the monitoring points. The calculated exposure time table is provided below, the results are given in Annex 3.

Monitoring Point	Exposure Time	*MPC – Average Daily for NO ₂ -mg/m ³	*MPC – Average Daily for SO ₂ -mg/m ³	Results of Measurements For NO ₂ , mg/m ³	Results of Measurements For SO ₂ , mg/m ³
Point #1	379 H, 30 m	0,04	0,05	0.011	<0.001

*Maximum permissible concentrations (MPC) of atmospheric air pollutants in populated areas hygiene norms 2.1.6. 002 -01.

4.5 Water analysis

The results of the laboratory analysis for four samples. The laboratory reports are provided in Annex 1.

Table 1.1.1 Point #1_US

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523-2008	6.5-8.5	7.52
Total Suspend. Solids (TSS)	mg/l	ISO 11923:1997	30	8.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.7
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.54
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	200 000

Table 1.1.2 Point #1_DS

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523-2008	6.5-8.5	7.61
Total Suspend. Solids (TSS)	mg/l	ISO 11923:1997	30	4.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.8
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.66
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	250 000

Table 1.1.3 Point #2_US

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523-2008	6.5-8.5	7.60
Total Suspend. Solids (TSS)	mg/l	ISO 11923:1997	30	7.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.6
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.50
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	87 000

Table 1.1.4 Point #2_DS

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523-2008	6.5-8.5	7.69
Total Suspend. Solids (TSS)	mg/l	ISO 11923:1997	30	3.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.7
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.59
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	268 000

*Resolution № 425 (31/12/2013) of Georgian Government, about the establishment of technical regulation for protection of surface waters from contamination.

Annex 1. Water Laboratory Reports
Point #1 Upstream



DG Consulting Laboratory



Test Report № 1485

Client: Hunan road and bridge construction group
Address:
Sample Name: River Dzirula, Point 1 Up stream
Sample Number: lab # 2610
Contact Person: Rusudan Khargelia
Phone: +995 599 177774
dgconstlab@gmail.com

Sampling Date: 10/02/21
Sample Received In The Laboratory : 11/02/21
The Analysis Completed: 16/02/21

DG Consulting Ltd

Address: 10, Mirza Gholvani Street, 0160, Tbilisi, Georgia; Registered in Georgia, No 205 280 988;
t: +995 322 380 313; e: dgconstlab@gmail.com; dgconstlab@gmail.com

DG Consulting Ltd

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523:2008	6.5-8.5	7.52
Total Suspended Solids (TSS)	mg/l	ISO 11923:1997	30	8.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.7
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.54
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	200 000

*Resolution № 425 (31/12/2013) of Georgian Government, about the establishment of technical regulation for protection of surface waters from contamination.

Head of the Laboratory:
Nino Shavgulidze



Note: 1. Results pertain only to the given sample.
2. It is prohibited to reproduce the report's content without approval of the laboratory.

DG Consulting Ltd

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Point #1 Downstream



DG Consulting Laboratory



GAC-TI-IBB
dg-consulting
1702520170018

Test Report № 1486

Client: Hunan road and bridge construction group
Address:
Sample Name: River Dzirula. Point 1 Down stream
Sample Number: lab # 2611
Contact Person: Rusudan Khargelia
Phone: +995 599 177774
dgconslab@gmail.com

Sampling Date: 10/02/21
Sample Received In The Laboratory : 11/02/21
The Analysis Completed: 15/02/21

DG Consulting Ltd

Address: 10, Mirza Gelovani Street, 0100, Tbilisi, Georgia; Registered in Georgia, No 205 280 998;
t: +995 322 380 313; e: dgconslab@gmail.com; dgconsgo@gmail.com

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DG Consulting – Laboratories

Test Report № 1486

Page 2 of 2
DGL-RE-41-E-01

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523:2008	6.5-8.5	7.61
Total Suspend. Solids (TSS)	mg/l	ISO 11923:1997	30	4.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.8
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.66
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	250 000

*Resolution № 425 (31/12/2013) of Georgian Government, about the establishment of technical regulation for protection of surface waters from contamination.

Head of the Laboratory:
Nino Shavgulidze



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DG Consulting Ltd

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Point #2 Upstream



DG Consulting Laboratory



GAC - TL - 0160
საქართველო
170252017/2018

Test Report № 1487

Client: Hunan road and bridge construction group
Address:

Sample Name: River Dzirula, Point 2 Up stream

Sample Number: lab # 2612
Contact Person: Rusudan Khargelia
Phone: +995 599 177774
dgconslab@gmail.com

Sampling Date: 10/02/21
Sample Received In The Laboratory : 11/02/21
The Analysis Completed: 16/02/21

DG Consulting Ltd

Address: 10, Mirza Gholvani Street, 0100, Tbilisi, Georgia; Registered in Georgia, No 205 280 998;
t: +995 322 380 313; e: dgconslab@gmail.com; dgconslab@gmail.com

DG Consulting Ltd

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523:2008	6.5-8.5	7.60
Total Suspend. Solids (TSS)	mg/l	ISO 11923:1997	30	7.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.6
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.50
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	87 000

*Resolution № 425 (31/12/2013) of Georgian Government, about the establishment of technical regulation for protection of surface waters from contamination.

Head of the Laboratory:
Nino Shavgulidze



Note: 1. Results relate only to the taken samples.
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Point #2 Downstream



DG Consulting Laboratory



GAC-TL-0160
lab/obv/33
17025.2017/2018

Test Report № 1488

Client: Hunan road and bridge construction group
Address:
Sample Name: River Dzirula, Point 2 Down stream
Sample Number: lab # 2613
Contact Person: Rusudan Khargelia
Phone: +995 599 177774
dgconslab@gmail.com

Sampling Date: 10/02/21
Sample Received In The Laboratory : 11/02/21
The Analysis Completed: 16/02/21

DG Consulting Ltd

Address: 10, Mirza Gelovani Street, 0105, Tbilisi, Georgia; Registered in Georgia, No 205 280 998;
t: +995 322 880 313; e: dgconslab@gmail.com; dgconslab@gmail.com

DG Consulting Ltd

Parameter	Unit	Test Method	Acceptable Range*	Test Result
Chemical Parameters				
pH	-	ISO 10523:2008	6.5-8.5	7.69
Total Suspend. Solids (TSS)	mg/l	ISO 11923:1997	30	3.0
N (total)	mg/l	DGL-IN 74-G-01	15	0.7
Polyphosphate	mg/l	DGL-IN 12-G-01	3.5	0.59
BOD ₅	mg/l O ₂	ISO 5815:2003	6	<3
COD	mg/l O ₂	ISO 6060:1989	30	<3
Oil & Grease	mg/l	EPA 413.1-97	5	<5
Microbiology Parameters				
Total Coliforms	MPN in 100 ml	ISO 9308-1:2014	5 000 MPN in 1000 ml	268 000

*Resolution № 425 (31/12/2013) of Georgian Government, about the establishment of technical regulation for protection of surface waters from contamination.

Head of the Laboratory:
Nino Shavgulidze



Note: 1. Results pertain only to the taken samples.
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Annex 2. Vibration Event Reports

Point #1 Vibration event report



Event Report

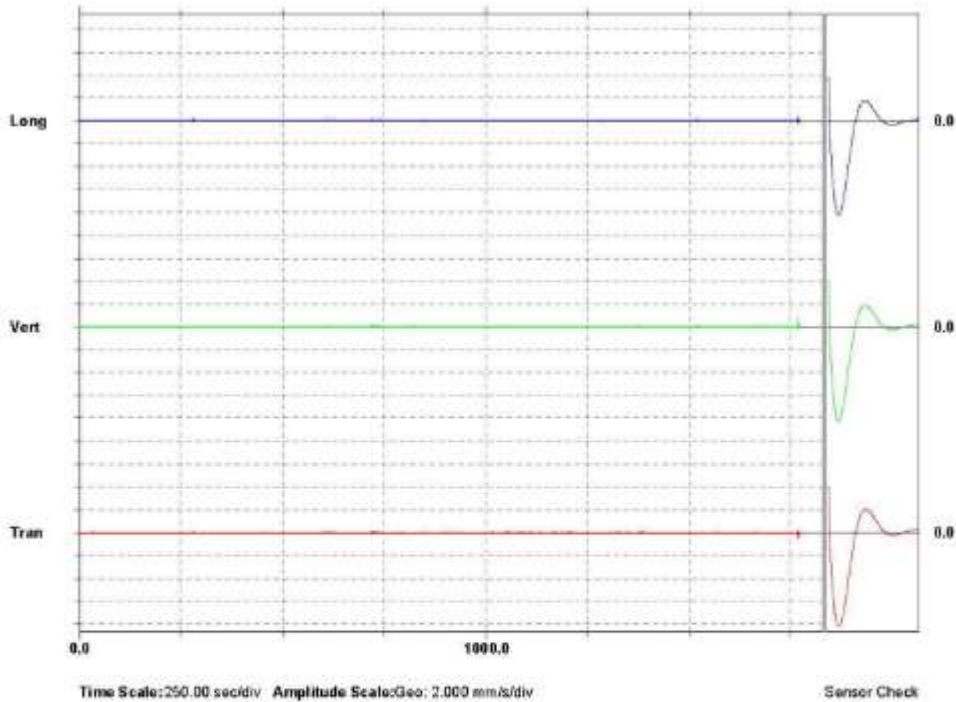
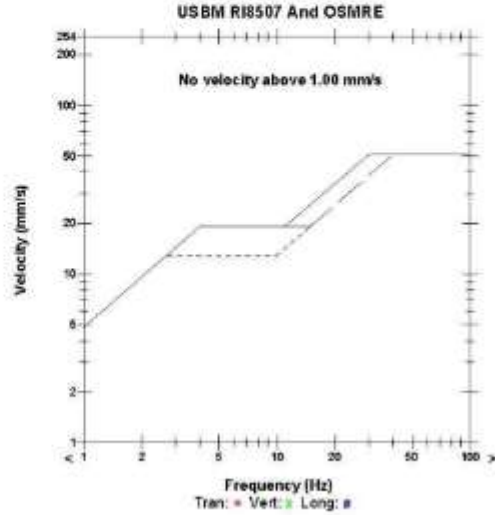
Date/Time Manual at 10:34:47 February 10, 2021
 Range Geo: 254.0 mm/s
 Record Time 1772.5 sec at 1024 sps
 Operator/Setup: SANDRO/SANDRO_HUNAN.MMB

Serial Number UM15617 V 10-89 Micromate ISEE
 Battery Level 3.8 Volts
 Unit Calibration September 4, 2019 by InstanTel
 File Name UM15617_20210210103447.IDFW

Notes
 Location:
 Client:
 User Name:
 General:

	Tran	Vert	Long	
PPV	0.504	0.709	0.370	mm/s
ZC Freq	>100	39	30	Hz
Time (Ref. to Trig)	1768.229	1768.229	1768.231	sec
Peak Acceleration	0.044	0.042	0.026	g
Peak Displacement	0.005	0.009	0.067	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.3	Hz
Overswing Ratio	4.0	4.4	4.7	

Peak Vector Sum 0.870 mm/s at 1766.229 sec



Annex 3. Air Monitoring Results
NO_x



(A division of Gradko International Ltd.)
St. Martins House, 77 Wares Street Winchester, Hampshire SO23 0RH
tel: 01962 860331 fax: 01962 841339 e-mail: diffusion@gradko.co.uk



2187

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER P00158R
BOOKING IN REFERENCE P00158
DESPATCH NOTE 80441
CUSTOMER DG Consulting Attn: Boris
Machavariani
10 Mirza Gelovani Street
Tbilisi
Georgia
DATE SAMPLES RECEIVED 15/02/2021

Location	Sample Number	Exposure Data			µg/m ³ *	µg NO ₂ ppb * on tube	
		Date On*	Date Off*	Time* (hr.)			
Point #1	1867504	25/01/2021	10/02/2021	379.50	11.29	5.75	0.58
Laboratory Blank				379.50	0.11	0.06	0.008

Comment: Results are not blank subtracted

Results have been corrected to a temperature of 293 K (20°)

Overall M.U. ±0.7% **Limit of Detection** 0.031 µgNO₂
The reported expanded uncertainty is based on a standard uncertainty multiplied by a factor of k=2, providing a level of confidence of a approximately 95%. Uncertainty of measurement has not been applied to the reported results.

Tube Preparation: 20% TEA/

Analyst Name Moly Bevan

Analysed on UV CARY2

Report Checked By Chris Andrew

Date of Analysis 21/02/2021

Date of Report 21/02/2021


Analysis carried out in accordance with documented in-house Laboratory Method GLM7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*). These calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.
Form LQF32b Issue 9 – August 2019

Report Number P00158R

Page 1 of 1

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of these results
Signed: 
L. Gates, Laboratory Manager

SO_x

(A division of Gradko International Ltd.)
 St. Martins House, 77 Wakes Street Winchester, Hampshire SO23 0RH
 tel.: 01962 860331 fax: 01962 841330 e-mail: diffusion@gradko.co.uk



LABORATORY ANALYSIS REPORT

DETERMINATION OF SULPHUR DIOXIDE IN DIFFUSION TUBES BY ION CHROMATOGRAPHY

REPORT NUMBER P00097R
 BOOKING IN REFERENCE No P00097
 DESPATCH NOTE No 80441
 CUSTOMER DG Consulting Attn: Boris Machavariani
 10 Mirza Gelovani Street
 Tbilisi
 Georgia
 DATE SAMPLES RECEIVED 15/02/2021

JOB NUMBER	Sample Number	Date Exposed*	Date Finished*	Exposure Hours*	SO ₂ ²⁻	µgSO ₂ ²⁻	SO ₂	SO ₂
					µg/ml	- Blank	µg/m ³	ppb*
Location								
Point #1	1867537	25/01/2021	10/02/2021	379.50	<0.09	<0.09	<1.32	<0.50

Laboratory Blank 0.01

Comment: Results are blank subtracted
 Results reported as <0.09µg SO₂²⁻ are below the reporting limit.

Overall M.U. ±9.6% Reporting Limit 0.09µg SO₂²⁻
 The reported expanded uncertainty is based on a standard uncertainty multiplied by a factor of k=2, providing a level of confidence of approximately 95%. Uncertainty of measurement has not been applied to the reported results.

Analysed on Dionex ICS1100 ICU10
 Analyst Name Michael Battram Report Checked By Gavin Aikman
 Date of Analysis 16/02/2021 Date of Report 26/02/2021

Analysis has been carried out in accordance with in-house method GLM1

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*). These calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager, Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

Form LQF52b Issue 9 - August 2019

Report Number P00097R

Page 1 of 1

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Gradko International Ltd
 This signature confirms the authenticity of these results
 Signed: *L. Gates*
 L. Gates, Laboratory Manager

Annex 4. Monitoring Methodology and Equipment

Noise Level Measurements

The noise level measurements were implemented in accordance with the British Standard *BS 7445-2:2003 'Description and measurement of environmental noise'*. The dust concentration measurements in the ambient air were conducted in accordance to the EU standards.

The monitoring points were selected, so as to represent the impact of the construction on local population as realistically as possible.

Noise Measurement Equipment

According to the above mentioned standard, the following equipment was used during the noise level measurement activities:

- Rion NL-52, First class noise measurement device;
- Windscreen, WS-16;
- Tripod ;
- SD Card;



Noise measuring device:
Rion NL-52



Windscreen WS-16



ST-80

ST-81

Tripod

Noise measurement range: 0-133 dB

Noise measurements were done for one 30 minute session for each monitoring points.

Vibration Level Measurements

The vibration level measurements are conducted using the InstanTel Minimate Plus Device. It records the waveform data to the integrated memory. After the monitoring activities, the recorded data is processed in the PC Program Blastware, which is also created by the company InstanTel.

The vibration measurement is conducted using Transducer (Geophone), which is connected to the InstanTel Minimate Plus device. Three ground spikes are attached to the bottom of the transducer, pushed to the ground covering the attached spike fully. The geophone shall be directed towards the vibration source using the directional arrow, which is engraved on the Geophone itself. After this, the sandbag is put on top of the transducer for solid compaction.

After the correct installation of the Geophone, sensorcheck program is launched on the Minimate Plus device for further correct vibration measurements. In order to start vibration monitoring, the tests for sensor check program shall be Passed, which is displayed on the Minimate Plus device. After the mentioned activities, recording of the vibration waveform is starting.

As it was already described above, after recording the Vibration Waveform session, the device saves the session to the integrated hard drive. After what, the session is transferred to the Personal Computer and processed using special program called Blastware, which is also created by the Company InstanTel. The program created event report, which includes vibration waveform graphs, timing and other detailed information about the recorded session.



Figure 4.5.1 The Minimate vibration monitoring device

Dust Concentration Measurements

Dust monitoring was conducted according to the EU standards. The equipment, which was used during the measurement are Dust Trak DRX Desktop aerosol monitor, which is installed in the Environmental Enclosure 8535, which allows the aerosol to measure dust concentration in ambient air in the field conditions.

Before starting the measurements, Zero Calibration was done to the aerosol, which calibrates the device to zero level in order, not to get correct results

The photos below show the used equipment for Dust monitoring and Zero Calibrator.



Figure 4.5.2 Dust Trak Aerosol monitor (8533 model) installed in Environmental Enclosure 8535



Figure 4.5.3 Zero Calibrator

Zero Calibration is done before starting the monitoring. Zero calibrator is attached to the inlet of the Dust Trak Aerosol monitor and using the software (zero calibration), which is already installed on the device, zero calibration is conducted for further correct measurements.

Air Monitoring







Air monitoring - NO_x and SO_x sampling was conducted via passive sampler/concentrating tubes using English Company Gradko International standard certified tubes. The detailed information regarding method and model is provided in 0







Parameter	NO _x	SO _x
Manufacturer/Model	Gradko International Ditrax 100 RAM	Gradko International Ditrax 600 RAM
Integration period	7-day Exposure	7-day Exposure
Sampling Frequency	Continuous	Continuous
MDL/Target	1.4 µg/m ³	0.2 µg/m ³
Sampling and Analytical Method	Sorbent impregnated diffusion/ion chromatography	Sorbent impregnated diffusion/UV Spectrophotometry







Water sampling and analysis







The water samples are taken by the certified monitoring technicians, which are specially trained for the water sampling activities. The analysis of the taken water samples are conducted in the accredited DG Consulting Laboratory with ISO 17025 standard and if necessary, samples are sent to SYN LAB (Germany).







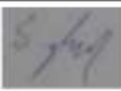
Annex 3: Non-Conformance Reports and Corrective Action Follow up







							
NON CONFORMANCE REPORT (NCR)						No 275	
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01							
Location :	Vertkvitchala Metal Workshop		Section/Km :				
Tech. Spc. Item :			Description :	Improper placement of electrical cables			
Ref. Criteria :	Electrical Safety		Ref. No. :				
Description of Non-conformance:	Electrical cables are routed unsafely, scattered on the ground surface, unprotected which can cause electric shock or electrocution for working personnel;						
Site Responsible that Cause Incompliance							
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)						
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Rework <input type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Rect						
Progress	<input type="checkbox"/> Not Allowed <input checked="" type="checkbox"/> Allowed <input type="checkbox"/> Acceptance of CAR After <input type="checkbox"/> Use of CAR						
Disposition Proposal:	Electrical cables must be routed safely and in accordance with electrical safety requirement; Cables must be routed underground or must have protectors.						
Picture, Sketch							
Attachment :							
Section	Name	Title	Date:	Signature			
Engineer	Zaal Giorgadze	Health and Safety Expert	30.03.2021				
Engineer Team Leader	Fethi ERDEM	Team Leader					







				 		
NON CONFORMANCE REPORT (NCR)					No	280
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01						
Location :	Tunnel # 10		Section/Km :			
Tech. Spc. Item :			Description :	Ground and water contamination with concrete and chemicals		
Ref. Criteria :	Pollution Prevention		Ref. No. :			
Description of Non-conformance:	Washout pit is full and Concrete/Cement is overflowed and it can cause ground contamination. Also it has no sign					
Site Responsible that Cause Incompliance						
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)					
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject					
Progress	<input type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input checked="" type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR					
Disposition Proposal:	To avoid overflowing of Concrete/Cement from Washout pit on to the ground Contractor must clean is ASAP to prevent Ground contamination. Also sign should be installed					
Picture, Sketch						
Attachment :						
Section	Name	Title	Date:	Signature		
Engineer	Bidzina Peradze	HSE Expert	3/30/2021			
Engineer Team Leader	Fethi ERDEM	Team Leader				






							
NON CONFORMANCE REPORT (NCR)						No	272
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01							
Location :	Tunnel # 9 Access Road		Section/Km :				
Tech. Spc. Item :			Description :	Ground and water contamination with concrete and chemicals			
Ref. Criteria :	Pollution Prevention		Ref. No. :				
Description of Non-conformance:	Concrete Trucks are washing their Mixers directly on the ground near the river, which causes ground and water contamination						
Site Responsible that Cause Incompliance							
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)						
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject						
Progress	<input type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input checked="" type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR						
Disposition Proposal:	Concrete spill need to be removed. Contractor has to conduct refresh training for concrete mixer drivers and concrete pump operator regarding concrete washout on the site, Contractor must arrange sufficient size washout pit. To avoid ground and water contamination						
Picture, Sketch							
Attachment :							
Section	Name	Title	Date:	Signature			
Engineer	Bidzina Peradze	HSE Expert	3/24/2021				
Engineer Team Leader	Fethi ERDEM	Team Leader					







				 	
NON CONFORMANCE REPORT (NCR)					No 273
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01					
Location :	Concrete beam manufacturing workshop	Section/Km :			
Tech. Spc. Item :		Description :	hazardouse material stored without drip tray		
Ref. Criteria :	pollution prevention	Ref. No. :			
Description of Non-conformance:	Improper storage of Chemicals. Storage of hazardouse material is not according to Project pollution prevention and state regulation about hazardouse material storage and handling				
Site Responsible that Cause Incompliance					
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)				
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject				
Progress	<input type="checkbox"/> Not Allowed <input checked="" type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR				
Disposition Proposal:	According to Georgian legislation and Project spill prevention Plan, all hazardous material containers must be placed in drip trays with 110% capacity of hazardous material placed in to the secondary containment.				
Picture, Sketch					
Attachment :					
Section	Name	Title	Date:	Signature	
Engineer	Bidzina Peradze	HSE Expert	3/24/2021		
Engineer Team Leader	Fethi ERDEM	Team Leader			








				 	
NON CONFORMANCE REPORT (NCR)				No	274
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01					
Location :	Tunnel # 10 Entrance bridge		Section/Km :		
Tech. Spc. Item :			Entace brige doesn't have Handrails		
Ref. Criteria :	PPE		Ref. No. :		
Description of Non-conformance:	Tunnel # 10 Entrance bridge doesn't have Handrails, also Brige have big open space. Risk of falling of Humans and Mashinery				
Site Responsible that Cause Incompliance					
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)				
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject				
Progress	<input checked="" type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR				
Disposition Proposal:	Hand rails must be installed and open space between Bridge path must be filled to avoid falling of Humans and Mashinery in between				
Picture, Sketch					
Attachment :					
Section	Name	Title	Date:	Signature	
Engineer	Bidzina Peradze	HSE Expert	3/25/2021		
Engineer Team Leader	Fethi ERDEM	Team Leader			







				 		
NON CONFORMANCE REPORT (NCR)					No	285
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/DCB-01						
Location :	Retaining Wall 2512	Section/Km :				
Tech. Spc. Item :		Description :	High voltage lines not tall enough			
Ref. Criteria :	Electrical Safety	Ref. No. :				
Description of Non-conformance:	High voltage lines are not at a safe distance above ground, they are at a short distance above the ground. Danger of causing electric shock to people with fatal accident; and also, damaging technique/equipment;					
Site Responsible that Cause Incompliance						
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)					
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Rect					
Progress	<input checked="" type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Use of CAR					
Disposition Proposal:	High voltage lines must be lifted at appropriate, safe height;					
Picture, Sketch						
Attachment :						
Section	Name	Title	Date:	Signature		
Engineer	Zaal Giorgadze	Health and Safety Expert	17.04.2021			
Engineer Team Leader	Fethi ERDEM	Team Leader				








							
NON CONFORMANCE REPORT (NCR)						No	286
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01							
Location :	Tunnel #8		Section/Km :				
Tech. Spc. Item :			Description :	Damaged working platform and stone falling			
Ref. Criteria :	Working at height		Ref. No. :				
Description of Non-conformance:	Working platform has been damaged due to the stone falling, contractor does not use proper excavation and strengthening construction methods. Proper engineering control is required by contractor to avoid accidents during tunnel face works.						
Site Responsible that Cause Incompliance							
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)						
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject						
Progress	<input checked="" type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR						
Disposition Proposal:	Proper engineering control measure must be taken by contractor to avoid accidents during tunnel face works.						
Picture, Sketch							
Attachment :							
Section	Name	Title	Date:	Signature			
Engineer	Zaal Giorgadze	Health and Safety Expert	17.04.2021				
Engineer Team Leader	Fethi ERDEM	Team Leader					







					
NON CONFORMANCE REPORT (NCR)				No	244
Construction of Khevi-Ubisa Section[E60 Highway Route]-KURP/CW/OC8-01					
Location :	Tunnel #1	Section/Km :			
Tech. Spc. Item :		Description :	Unsafe access to the worksite.		
Ref. Criteria :	Access road safety	Ref. No. :			
Description of Non-conformance:	Access to the worksite at Tunnel #1 is in extremely unsafe condition. Guard-rails are damaged and are not providing adequate protection. Access road is next to the steep slope, which creates a hazard of free-fall. Until the correction measures are implemented, interim controls (e.g. alternative route should be used instead and unsafe access closed).				
Site Responsible that Cause Incompliance					
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)				
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject				
Progress	<input type="checkbox"/> Not Allowed <input checked="" type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR				
Disposition Proposal:	Until the correction measures are implemented, interim controls (e.g. alternative route should be used instead and unsafe access closed).				
Picture, Sketch					
Attachment :					
Section	Name	Title	Date:	Signature	
Engineer	Zaal Giorgadzre	Health and Safety Expert	25.02.2021		
Engineer Team Leader	Fethi ERDEM	Team Leader			

							
NON CONFORMANCE REPORT (NCR)						No	253
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01							
Location :	Concrete beam fabrication yard		Section/Km :				
Tech. Spc. Item :			Description :	Gantry cranes without barricades			
Ref. Criteria :	Guardrail safety		Ref. No. :				
Description of Non-conformance:	Gantry crane have to be barricaded with hard barrier to prevent collision with pedestrians or moving machinery. There has already been a case when moving car hit on the side of the gantry crane.						
Site Responsible that Cause Incompliance							
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)						
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject						
Progress	<input type="checkbox"/> Not Allowed <input checked="" type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR						
Disposition Proposal:	Gantry crane have to be barricaded with hard barrier to prevent collision with pedestrians or moving machinery						
Picture, Sketch							
Attachment :							
Section	Name	Title	Date:	Signature			
Engineer	Zaal Giorgadze	Health and Safety Expert	25.02.2021				
Engineer Team Leader	Fethi ERDEM	Team Leader					

							
NON CONFORMANCE REPORT (NCR)						No 260	
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01							
Location :	Tunnel #2		Section/Km :	BRI 3 AB2			
Tech. Spc. Item :			Description :	No ground under the operating facility			
Ref. Criteria :	Collapsing Danger		Ref. No. :				
Description of Non-conformance:	No ground under the operating facility, the building will collapse. There are personnel working under the facility and it creates a hazardous working condition.						
Site Responsible that Cause Incompliance	Li Zhuo						
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)						
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input type="checkbox"/> Improve <input type="checkbox"/> Remove <input checked="" type="checkbox"/> Reconstruct <input type="checkbox"/> Reject.						
Progress	<input type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input checked="" type="checkbox"/> After Close of CAR						
Disposition Proposal:	Operating facility must be moved to another/safe location and reconstructed on the solid/stable ground.						
Picture, Sketch	<div style="display: flex; justify-content: space-around;">   </div>						
Attachment :							
Section	Name	Title	Date:	Signature			
Engineer	Zaal Giorgadze	Health and Safety Expert	15.03.2021				
Engineer Team Leader	Fethi ERDEM	Team Leader					

				 	
NON CONFORMANCE REPORT (NCR)					No 263
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01					
Location :	Tunnel #10 Entrance	Section/Km :			
Tech. Spc. Item :		Description :	Improper placement of the disassembled metal construction parts		
Ref. Criteria :	Storage Safety	Ref. No. :			
Description of Non-conformance:	Disassembled metal construction parts are not properly placed, they are not stored in accordance of work safety norms and can cause personnel injury.				
Site Responsible that Cause Incompliance	Wang Tong				
Category	<input checked="" type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)				
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input type="checkbox"/> Improve <input checked="" type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject				
Progress	<input type="checkbox"/> Not Allowed <input checked="" type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR				
Disposition Proposal:	Disassembled metal construction parts must be safely stored;				
Picture, Sketch					
Attachment :					
Section	Name	Title	Date:	Signature	
Engineer	Zaal Giorgadze	Health and Safety Expert	15.03.2021		
Engineer Team Leader	Fethi ERDEM	Team Leader			

				 		
NON CONFORMANCE REPORT (NCR)					No	264
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01						
Location :	Tunnel #9		Section/Km :			
Tech. Spc. Item :			Description :	Contaminating the river with water coming from the Tunnel #9		
Ref. Criteria :	River Contamination		Ref. No. :			
Description of Non-conformance:	Water from Tunnel #9 is going to the river and contaminating the surface water. Settlement pond must be arranged to sediment the contaminated water before discharge.					
Site Responsible that Cause Incompliance	Wang Yuntang					
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)					
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input type="checkbox"/> Improve <input checked="" type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject					
Progress	<input checked="" type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR					
Disposition Proposal:	Settlement pond must be arranged to sediment the contaminated water before discharge.					
Picture, Sketch	<div style="display: flex; justify-content: space-around;">   </div>					
Attachment :						
Section	Name	Title	Date:	Signature		
Engineer	Zaal Giorgadze	Health and Safety Expert	15.03.2021			
Engineer Team Leader	Fethi ERDEM	Team Leader				

							
NON CONFORMANCE REPORT (NCR)						No	278
Construction of Khevi-Ubisa Section[E60 Highway Route]-KURP/CW/OCB-01							
Location :	Tunnel #1 Bridge #2		Section/Km :				
Tech. Spc. Item :			Description :	Improper Scaffolding			
Ref. Criteria :	Working at height;		Ref. No. :				
Description of Non-conformance:	Personnel are violating working at height requirements, by using improper scaffolding. Scaffolding is not safe, staircase is without guardrails, and working platform is not appropriate.						
Site Responsible that Cause Incompliance							
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)						
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject						
Progress	<input type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input checked="" type="checkbox"/> After Close of CAR						
Disposition Proposal:	When working at height, it is required to comply with Georgian Government Technical Ordinance №477 "Safety Requirements for Working at Height" and to follow all of the safety requirements.						
Picture, Sketch							
Attachment :							
Section	Name	Title	Date:	Signature			
Engineer	Zaal Giorgadze	Health and Safety Expert	30.03.2021				
Engineer Team Leader	Fethi ERDEM	Team Leader					

Attention to:

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

Subject: Topsoil Stockpiling

Our Reference: 1635/CKUSE60/UBM-GE

Date: 15.04.2021

References: N.A

Dear Mr. Xiangyang

As per Sub-clause 602 General Requirements of Technical Specification, topsoil works have been described as "Topsoil shall be stripped, loaded, transported and deposited in stockpile areas for use in the side slope backfill and other areas"

- *Existing topsoil material shall, except where it is to be left in place, be stripped to depths as required for Class 5A material from all areas of cutting and from all areas to be covered by embankment or by other areas of fill. Topsoil is defined as the surface or top layer of soil, including fine roots, the herbaceous vegetation and overlying grass and is characterized by the presence of organic matter. The thickness of the layer is defined by design drawings*
- *Topsoil shall wherever practicable be used immediately after its stripping and if not shall be stored in stockpiles of heights not exceeding 2 m. Unless otherwise directed by the Engineer, topsoil shall not be stockpiled for more than two years. Topsoil shall not be unnecessarily trafficked either before stripping or when in a stockpile. Stockpiles shall not be surcharged or otherwise loaded and multiple handling shall be kept to a minimum.*

Despite the requirements of the specification it has been observed that the Contractor is not stripping and stocking the topsoil accordingly.

Hereby, the Contractor is requested to execute the topsoil stripping and stocking in accordance to the Technical Specification.



With Our Kind Regards



Fatih 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)
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







UBM ULUSLARARASI BİRLEŞMİŞ MÜŞAVİRLER MÜŞAVİRLİK HİZMETLERİ A.Ş.







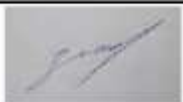
Head Quarter: Reşit Galip Cad. No:94 Çankaya / ANKARA Phone: +90312 427 65 65 Fax: +90312 427 65 76

Georgian Branch: Apakidze 11, Room 501 Tbilisi/ GEORGIA

				 	
NON CONFORMANCE REPORT (NCR)					No
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01					
Location :	Tunnel 9		Section/Km :		
Tech. Spc. Item :			Description :	Waste water discharged in to the river	
Ref. Criteria :	Waste management		Ref. No. :		
Description of Non-conformance:	Waste water from TUN# 9 being discharged in to the river Dzirula without pretreatment				
Site Responsible that Cause Incompliance					
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)				
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject				
Progress	<input type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input checked="" type="checkbox"/> After Close of CAR				
Disposition Proposal:	Waste water need to be redirected to the sediment pit and treated and tested before discharging in to waterbodies.				
Picture, Sketch					
Attachment :					
Section	Name	Title	Date:	Signature	
Engineer	A. Shevardnadze	Health and Safety Expert	1/28/2021		
Engineer Team Leader	Fethi ERDEM	Team Leader			

				 		
NON CONFORMANCE REPORT (NCR)					No	263
Construction of Khevi-Ubisa Section(EGO Highway Route)-KURP/CW/OCB-01						
Location :	Tunnel #10 Entrance		Section/Km :			
Tech. Spc. Item :			Description :	Improper placement of the dissembled metal construction parts		
Ref. Criteria :	Storage Safety		Ref. No. :			
Description of Non-conformance:	Dissembled metal construction parts are not properly placed, they are not stored in accordance of work safety norms and can cause personnel injury.					
Site Responsible that Cause Incompliance	Wang Tong					
Category	<input checked="" type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)					
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input type="checkbox"/> Improve <input checked="" type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject					
Progress	<input type="checkbox"/> Not Allowed <input checked="" type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR					
Disposition Proposal:	Dissembled metal construction parts must be safely stored;					
Picture, Sketch						
Attachment :						
Section	Name	Title	Date:	Signature		
Engineer	Zaal Giorgadze	Health and Safety Expert	15.03.2021			
Engineer Team Leader	Fethi ERDEM	Team Leader				

				 		
NON CONFORMANCE REPORT (NCR)					No	288
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01						
Location :	Tunnel #5 exit to E60 highway		Section/Km :			
Tech. Spc. Item :			Description :	Contamination of public road		
Ref. Criteria :	Pollution		Ref. No. :			
Description of Non-conformance:	Company trucks are bringing all the dirt directly to the public road, which may cause traffic incident.					
Site Responsible that Cause Incompliance						
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)					
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input type="checkbox"/> Improve <input checked="" type="checkbox"/> Remove <input type="checkbox"/> Reconstruct <input type="checkbox"/> Reject					
Progress	<input checked="" type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input type="checkbox"/> After Close of CAR					
Disposition Proposal:	Road safety and site supervisor must take corrective action, The road must be graveled.					
Picture, Sketch						
Attachment :						
Section	Name	Title	Date:	Signature		
Engineer	Zaal Giorgadze	Health and Safety Expert	17.04.2021			
Engineer Team Leader	Fethi ERDEM	Team Leader				

				 	
NON CONFORMANCE REPORT (NCR)				No	260
Construction of Khevi-Ubisa Section(E60 Highway Route)-KURP/CW/OCB-01					
Location :	Tunnel #2	Section/Km :	BRI 3 AB2		
Tech. Spc. Item :		Description :	No ground under the operating facility		
Ref. Criteria :	Collapsing Danger	Ref. No. :			
Description of Non-conformance:	No ground under the operating facility, the building will collapse. There are personnel working under the facility and it creates a hazardous working condition.				
Site Responsible that Cause Incompliance	Li Zhuo				
Category	<input type="checkbox"/> Minor Non-Conformance (Reporting shall be done for information and remedial action implemented) <input checked="" type="checkbox"/> Major Non-Conformance (Remedial action to be implemented after Engineer's written acceptance for CAR)				
Disposition	<input type="checkbox"/> Use-As <input type="checkbox"/> Repair <input type="checkbox"/> Rework <input type="checkbox"/> Improve <input type="checkbox"/> Remove <input checked="" type="checkbox"/> Reconstruct <input type="checkbox"/> Reject				
Progress	<input type="checkbox"/> Not Allowed <input type="checkbox"/> Allowed <input type="checkbox"/> After Acceptance of CAR <input checked="" type="checkbox"/> After Close of CAR				
Disposition Proposal:	Operating facility must be moved to another/safe location and reconstructed on the solid/stable ground.				
Picture, Sketch	<div style="display: flex; justify-content: space-around;">   </div>				
Attachment :					
Section	Name	Title	Date:	Signature	
Engineer	Zaal Giorgadze	Health and Safety Expert	15.03.2021		
Engineer Team Leader	Fethi ERDEM	Team Leader			

Annex 4: Grievance Redress Mechanism

#	Recipient	Date Received	Name, contact of Complainant & Location	Complaint Category	Complaint Description	Resolution Description	Resolution	Status
1	UBM	06-09-19	Beglar Grigalashvili & Murmani Grigalashvili Khevi (PK11+00)	Inclusion in LARP	<p>The only motorway access to the land plot will be blocked permanently.</p> <p>He requires that motorway access should be provided or land acquisition. (C/N 36.05.34.288).</p> <p>According to the complaint letter (N2-12/4285 - Dated: 10.04.2020) through RD, the part of the aforementioned agricultural land plot and the adjacent fields is damaged by the flooding caused owing to the blocking of stream water at PK11+00.</p> <p>Moreover, an access road to the land, as mentioned above, a plot is also restricted due to construction</p>	<p>On 06.09.2019 Engineer received the letter of AP;</p> <p>On 26.09.2019, the letter (N0179) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent the letter (N0301) (with attached grievance list) to the Contractor for taking immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor that motorway access to the locals' land was not taken into consideration in the project design (but there is not any technical information regarding alternative access road);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 14.01.2020, Engineer received the letter (N20200114-1) from the Contractor that Design does not consider access road;</p> <p><u>On 18.02.2020 Engineer sent the letter (N0601) to RD that the access road is blocked permanently and land acquisition is recommended due to the steep terrain to arrange alternative access;</u></p> <p>On 10.04.2020, Engineer received RD's letter (N 2-12/4285) regarding a complaint of Mr Beglar's son Mr Murmani Grigalashvili (P/N</p>	Accepted 06-08-20	Closed

					<p>works that eventually impeded movement to agricultural land.</p> <p>35001100566) that the flooding damages the part of the aforementioned agricultural land plot along with the adjacent fields caused owing to blocking of stream water at PK11+00. Moreover, the access road to the land as mentioned above plot is also restricted due to construction works that eventually impeded movement to agricultural land;</p> <p>On 05.05.2020, the Engineer informed Contractor (through the letter N 0797) regarding Mr Murmani's statement along with a description of the Site situation. Also, the Contractor was instructed to investigate the matter on technical bases and negotiate with the complainant to reach consensus;</p> <p>On 06.05.2020 Engineer informed RD (through the letter N 0805) that the AP's complaint is forwarded to the Contractor to settle the matter with the complainant till May 15, 2020; Also, RD was informed that the Engineer already brought to their kind notice (through the letter N 0601-Dated: February 18, 2020) that restriction of access to the agricultural land is permanent. Hence land acquisition recommended;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020 & 02.06.2020, the Contractor was reminded to implement necessary action as it was instructed to settle down this matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 06.06.2020 RD was informed that the complainant's issue remains pending (Engineer's letter N 0899);</p> <p>On 06.08.2020, the land acquisition process was completed.</p>		
2	UB M	12-09-19	Enveri Chaduneli Vertkvichala (PK62+50)	Inclusion in LARP	<p>1. He demands land acquisition (36.08.32.151; 36.08.32.070; 36.08.32.274); as he claims that his business (trading</p> <p>On 12.09.2019 and 23.09.2019, the Engineer received the letters of AP;</p> <p>On 26.09.2019, the letter (N0179) was submitted to the Contractor for further necessary actions (for investigation);</p>	Forwarded to RD	Open

				<p>with pottery) income decreased due construction work and distance between his own land plot and constructing Highway is short.</p> <p>2. Also, his stated that his own shed columns are damaged by vibration caused by construction work.</p> <p>3. Also, he added that Contractor already excavate his own land approx. 80 sqm;</p> <p>On 08.02.2021 Mr. Enveri stated that the Contractor is positioning and using his land plot (C/C 36.08.32.274) and he demands a compensation. (Allover area of the land plot is 82 sq.m);</p>	<p>On 29.10.2019 Engineer instructed the Contractor to describe the technical condition of all buildings/structures near the construction area (Engineer Letter N0284);</p> <p>On 05.11.2019 Engineer sent the letter (N0301) (with attached grievance list) to the Contractor to take immediate actions;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor (the feedback was unclear. There is no technical information regarding the local's shed or land plot or construction buffer);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 13.12.2019 Engineer instructed the Contractor to describe the technical condition of the buildings (Engineer's Letter N 0457);</p> <p>On 06.01.2020 Engineer received the letter (N20200106-3) from the Contractor that they made negotiations with the landowner and proposed lease of the portion of the land plot and the compensation for trees, and the landowner rejected the proposal. But as observed Contractor have not any proof documentation in this regard. Also, the Contractor responded that the third-party inspection agency had marked the complainant's building. But in the submitted list of documentation regarding inspected buildings/structures, there is not any inspection documentation referring to Mr Enveri's building;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants that must be provided with evidence also, the list of complaints which must</p>	
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					<p>be resolved immediately and approved with a signed agreement;</p> <p>On 18.02.2020 Engineer once again instructed the Contractor to describe the technical condition of the building (Engineer's Letter N 0597);</p> <p>On 28.04.2020 Engineer received the Contractor's response letter (N20200428-1) that he proposed the complainant to rent the land plot for three years and compensate for each tree 500 Gel, but the Contractor has not any rock proof in this regard;</p> <p>On 12.03.2020 Engineer once again remind the Contractor to describe the technical condition of the building (Engineer's Letter N 0644);</p> <p>On 24.03.2020, Engineer instructed Contractor (Engineer's Letter N0670) to immediate start negotiation with the landowner with the purpose to compensate for or recover the affected land plots and provide a signed agreement (as the joint investigation revealed there is removed vegetation from approx. 5 sq.m indeed 80 sq.m.);</p> <p><u>On 05.04.2020, Engineer sent a letter (N0696) to RD that the Contractor did not even inspect the building's technical condition despite Engineer's repeated formal requests through letters. Therefore, it is impossible to assess the timing of the damage in the absence of baseline data. Also, the distance between the edge of the carriageway (of constructing bridge N13) and the private land plot is 4 m, in the trading shed - approx. 32 m without consideration of noise/emission barrier into the design. However, the complainant demand the permanent acquisition of the land plot along with the structure;</u></p> <p>On 17.04.2020 Engineer instructed the Contractor to negotiate with the landowner with the purpose to compensate or recover affected plots and come up with a signed agreement and submit the copy to Engineer. In case if the</p>		
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					<p>Contractor is not reaching the agreement, he must formally share (copied to Engineer) its recommendations regarding the damaged assets and the time of the possession of the land plot;</p> <p>On 28.04.2020 Engineer received the Contractor's response letter (20200428-1) that they need to lease apart from the complainant's land plot for the smooth running of the Project, and they verbally proposed a lease for three years along with compensation for trees, but the complainant rejected Contractor's proposal;</p> <p>On 05.05.2020, Engineer reminded Contractor (through the letter N 0796) that in case of non-consensus, formally share (copied to Engineer) its recommendations regarding the damaged assets and the time of the possession of the land plot;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020, 02.06.2020, 24.06.2020 & 29.06.2020, the Contractor was reminded to implement necessary action as it was instructed</p> <p>in order to settle down this matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020 and N0948 Dated: 27.06.2020);</p> <p>On 13.07.2020, <u>the Engineer was required to specify particularly what area of Mr.Enveri's land plot is necessary to acquire due to needs of construction work (RD's letter N 2-12/7266);</u></p> <p>On 25.08.2020, <u>the Engineer received the letter (HNRB/G/F2/E/ 20200825-3) from the Contractor that 375 sq.m of the complainant's land plot should be acquired as this portion shall be occupied for the foundation pit construction;</u></p> <p>On 18.09.2020, the Contractor was reminded that according to the Condition of the Contract for Construction (clause 4.13), the Contractor should obtain, at his risk and cost, any additional rights of way or facilities outside the Site which he may require for the purposes of the Works (1120-CKUSE60-UBM-GE);</p>		
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						<p>On 24.09.2020, the Engineer informed the Employer regarding a particular area (with coordinates) which is necessary to be used temporarily due to safe arrangement of Pier N8-AT of Bridge N13 (which should be obtained by the Contractor) (1150-CKUSE60-UBM-GE);</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p> <p>On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);</p> <p>On 11.02.2021 the technical investigation endorsed, that a part of the land plot (C/C 36.08.32.274) is affected;</p> <p>On 05.03.2021 the Contractor was instructed to negotiate with Mr. Enveri to sort out the matter in the form of a signed agreement and copy to the Engineer (1533-CKUSE60-UBM-GE);</p> <p>On 05.03.2021 the Contractor was instructed to negotiate with Mr. Enveri to sort out the matter in the form of a signed agreement and copy to the Engineer (1533-CKUSE60-UBM-GE);</p> <p>On 01.04.2021 the Contractor informed the Engineer that he obtained the understanding of the complainant. The lease agreement was attached (HNRB/G/F2/E/20210401-3);</p> <p>On 10.04.2021 the Employer was informed that the parties have reached the Lease Agreement on the land plot (1609-CKUSE60-UBM-GE);</p>		
3	UBM	23-09-19	Vakhtangi Tsitskishvili	Inclusion in LARP	He stated that the only motorway access of his land plot (C/N	On 23.09.2019 Engineer received the letter of AP;	Partially Accepted/Rejected	Closed

			Vertkvichala (PK56+00)	36.08.33.056) would be blocked permanently after completion of the Project and demands alternative access or inclusion in LARP.	<p>On 26.09.2019, the letter (N0179) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer received the letter (N2-12/15060) from RD (with an attached letter of AP);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor to take immediate actions;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 13.11.2019, the letter (N0339) was submitted to the Contractor to take immediate actions (with an attached letter of RD);</p> <p>On 13.11.2019 Engineer sent a letter (N0338) to RD regarding the status of logged complaints;</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor;</p> <p>On 19.11.2019, the Engineer received a reply letter (N20191119-1) from the Contractor that motorway access to the locals' land was not considered in the project design. (but there is not any technical information regarding alternative access road);</p> <p>On 12.12.2019 Engineer sent a letter (N0445) to the Contractor to receive relevant replay through expert's opinion;</p> <p>On 10.01.2020 Engineer received a letter (N2-12/142) from RD with the attached statement of Mr.Vakhtangi;</p> <p><u>On 03.04.2020 Engineer instructed the Contractor to arrange alternative motorway access to village Koshki before blocking the existing motorway access (Engineer's Letter N 0692);</u></p> <p><u>On 03.04.2020, Engineer sent a letter (N0693) to RD that the current motorway access (which goes through the existing road of village Koshki)</u></p>	03-04-20	
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						<p><u>to the complainant's land plot is not blocked and he can pass through the construction area. Whereas, after the completion of construction works complainant will have alternative motorway access. Also, the Contractor rented the abovementioned land plot of the complainant.</u></p>		
4	UB M	25-09- 19	Anzor Grigalash vili Khevi (PK11+00)	Inclusion in LARP	<p>The only motorway access to the land plot will be blocked permanently.</p> <p>He requires that motorway access should be provided or land acquisition.</p> <p>(C/N 36.05.34.307)</p>	<p>On 25.09.2019 Engineer received the letter of AP;</p> <p>On 26.09.2019, the letter (N0179) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 18.10.2019, the letter (N0237) was submitted to the Contractor for additional essential measures (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor to take immediate actions;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor that motorway access to the locals' land was not taken into consideration in the project design, (but there is not any technical information regarding alternative access road);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 14.01.2020 Engineer received a letter (N20200114-1) from the Contractor that Design does not consider access road;</p> <p><u>On 18.02.2020, Engineer sent the letter (N0601) to RD that the access road is blocked permanently, and land acquisition is recommended due to the steep terrain to arrange alternative access;</u></p>	Accepted 19-10- 20	Close d

						On 19.10.2020 <u>the land acquisition process was completed;</u>		
5	UB M	26-09- 19	1) Pridon Barbakad ze 2) Ucha Kurtanidz e 3) Temur Barbakad ze 4) Oleg Barbakad ze Boriti (PK105+0 0)	Damag e to Infrastr ucture / Assets	The locals' are concerned as follows: 1. The houses are located on the hill were Tunnel N10 construction work is ongoing. There can be a danger of a collapsing place. 2. Also, the shortest access road to the locals' houses is blocked permanently, but they have other access, which is slightly longer. The locals require to recover the shortest access after construction work will be complete. 3. During the meeting on November 6, locals added that the access road which they use to go to school is muddy during rain and before they used to access, which wasn't	On 26.09.2019 Engineer received the letter of locals; On 26.09.2019, the letter (0179-CKUSE60-UBM-GE) was submitted to the Contractor for further necessary actions (for investigation); On 16.10.2019, the interim letter (0228-CKUSE60-UBM-GE) was sent to RD and informed them that, Engineer and Contractor planned a preparatory meeting with the subcontractor to make a final decision before any blasting. Also, RD is informed about the shortest access issue; On 05.11.2019 Engineer sent a letter (0301-CKUSE60-UBM-GE) (with attached grievance list) to the Contractor to take immediate actions; On 12.11.2019 Engineer sent a reminder letter (0333-CKUSE60-UBM-GE) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance); On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor, (but there is not technical information regarding the risk level of Tunnel N10 construction work for the population living on top of the Tunnel N10 and alternative access road; Also, as of 02.12.2019 Contractor has not yet solved muddy road problem); On 05.12.2019 Engineer sent a letter (0405-CKUSE60-UBM-GE) to the Contractor to take immediate actions (for investigation); On 12.12.2019 Engineer sent a reminder letter (0454-CKUSE60-UBM-GE) to the Contractor to receive the engineering point of view on the self-	Forwar ded to CC	Open

				<p>muddy but now it is deteriorated and blocked by the Contractor. So, they are required to solve the messy access problem.</p> <p>4. Mr Pridon complaining that his house is cracked due to vibration caused by the blasting activities of Tunnel N10.</p> <p>1) C/N 36.03.40.099;</p> <p>2) C/N 36.03.40.107;</p> <p>3) C/N 36.03.40.242;</p> <p>4) C/N 36.03.40.053.</p>	<p>explanatory location map referenced to the complaints;</p> <p>On 10.01.2020 Engineer received the letter (N2-12/143) from RD with attached Citizen Pridon Barbakadze's statement with the content that new cracks are developed on the walls of the house due to blasting activities of Tunnel N10;</p> <p>On 16.01.2020 Engineer sent the letter (N 0545) to the Contractor with the attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p><u>On 20.01.2020 Engineer sent the letter (N0547) to RD regarding 3 recommended alternative access road options for to solve the shortest access road issue;</u></p> <p>On 24.02.2020 Engineer received the letter (N 2-12/2299) from RD with the attached statement of Mr Pridon that new cracks are developed on the walls of the house and demand Inclusion in LARP;</p> <p><u>On 11.03.2020 Engineer sent a letter (N0638) to RD that Mr Pridon's house technical and Mr Temur's house technical condition have deteriorated, new cracks have appeared;</u></p> <p>On 12.03.2020 Engineer once again instructed the Contractor (Engineer's Letter N0644) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 17.03.2020 Engineer received blasting vibration monitoring results of some residential houses vicinity of TUN N10 (period 03.03.2020-13.03.2020) from the Contractor (letter N20200317-2);</p> <p><u>On 24.03.2020 Engineer sent a letter (N0669) to RD that it is recommended to temporary shifting to an alternative residential area of Mr Pridon's Family, Mr Temur's family, and Mr Ucha's family due safety purposes;</u></p>	
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					<p><u>On 24.03.2020, Mr Pridon's Family was shifted to the alternative residential area;</u></p> <p>On 26.03.2020 Engineer once again remind the Contractor (Engineer's Letter N0675) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 08.04.2020 Engineer instructed the Contractor that when operating close to the sensitive area (within 250 meters) such as residential, nursery, or medical facilities, the Contractor's hours of working shall be limited to 8 AM to 6 MP (Engineer's letter N0722);</p> <p>On 17.04.2020 Engineer once again instructed the Contractor to implement routine blasting vibration monitoring for each house location within 300 meters of blasting location as well as groundwater fluctuation monitoring and submit results to the Engineer on weekly bases (Engineer's letter 0742);</p> <p>On 28.04.2020 Engineer received the Contractor's response letter (N20200428-1) that building tapes are being purchased for further crack marking and survey of buildings/ structures;</p> <p>On 05.05.2020 Engineer once again reminded the Contractor to implement routine blasting vibration monitoring for each house location within 300 meters of the blasting location as well as groundwater fluctuation monitoring and necessary survey of technical conditions of Buildings/Structures and submit results to Engineer on weekly bases (Engineer's letter N 0796);</p> <p><u>On 06.05.2020, the Contractor reached the agreement with Mr Temur's Family regarding monthly compensation within 3 months in a purpose that Family will oblige to change their residential area within that period;</u></p> <p><u>On 26.05.2020, the protocol was signed with Mr Ucha's Family that Family is not disturbed with</u></p>		
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						<p><u>vibration and noise arisen by blasting activities within the construction of Tunnel N10, and they agree to stay in their own home:</u></p> <p><u>On 13.07.2020, the Engineer received the commission's decision (through the letter N 2-12/7236) that the Contractor is instructed to carry out routine monitoring of the buildings during construction works and the results will be discussed additionally by the commission:</u></p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p> <p>On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);</p>		
6	RD	13-09-19	<p>1) Avtandil Lomidze</p> <p>2) Izolda Lomidze</p> <p>3) Zina Lomidze Khunevi (PK41+00)</p>	Restriction or loss of access	<p>The locals' are concerned as follows:</p> <p>1. The houses are located on the hill where is the planned construction work of Tunnel N7. There can be a danger of a collapsing house.</p> <p>2. Also, there is a threat of permanent blocking only motorway access after the start construction work of Tunnel N7. The</p>	<p>On 13.09.2019 Engineer received the letter (N2-12/1276; N 2-12/12762; N2-05/13091) from RD;</p> <p>On 23.09.2019 Engineer received the letter (N2-05/13091) from RD with attached Zina Lomidze's statement;</p> <p>On 26.09.2019 the letter (N0178) was submitted to Contractor for further necessary actions (for investigation);</p> <p>On 22.10.2019, the interim letter (N0247) was sent to RD and informed them that, Engineer and Contractor planned preparatory meeting with subcontractor to make final decision before any blasting. Also, RD is informed about motorway access problem;</p> <p>On 12.11.2019 Engineer sent reminder letter (N0333) to Contractor (with attached grievance list, where is short descriptions and measures taken of each grievances);</p>	Forwarded to RD	Open

				<p>locals require to build alternative access before existing access is blocked or inclusion in LARP.</p> <p>1) C/N 36.08.35.311;</p> <p>2) C/N 36.08.35.192;</p> <p>3) C/N 36.08.35.317.</p>	<p>On 13.11.2019 Engineer sent letter (N0338) to RD regarding status of logged complaints;</p> <p>On 15.11.2019 Engineer received reply letter (N20191115-6) from Contractor, (there is not technical information regarding risk level of Tunnel N7 construction work for the population living on top of the Tunnel N7 and alternative access road);</p> <p>On 05.12.2019 Engineer sent letter (N0405) to Contractor for take immediate actions (for investigation);</p> <p>On 06.01.2020 Engineer received the letter (N2-12/17590) from RD regarding Avtandil Lomidze's complaint;</p> <p>On 07.01.2020 Engineer sent the letter (N0524) to Contractor with attached RD letter (for to assess blasting risk level for residential area and access road issue);</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to Contractor with attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with signed agreement;</p> <p>On 17.01.2020 Engineer received the letter (N20200117-1) from Contractor;</p> <p>On 03.02.2020 Engineer received the letter (N 2-12/1326) from RD with attached statement of Mr. Avtandil;</p> <p>On 02.03.2020 Engineer sent the letter (N0617) to RD that only motorway access to residential area will be blocked permanently and alternative access option was recommended. Also, noncompliance was observed that distance between Mr.Avtandil's residential area and edge of the carriageway is approx. 35 meters with no noise/emission barrier (10m wide green barrier) consideration of the design. Hence, land acquisition was recommended;</p> <p>On 10.07.2020 the Engineer received the commission's decision (through the letter N 2-</p>	
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					<p>12/7185) that the Department will discuss the issue of arranging an access road to real estate. In addition, the Contractor is instructed to carry out regular monitoring of the buildings during implementing the construction works.</p> <p>On 20.08.2020 the Contractor was instructed to start regular monitoring of all buildings/structures within 250 m from blasting point of Tunnel N7 as soon as the tunnel blasting activities will start at the abovementioned area (1052-CKUSE60-UBM-GE);</p> <p>On 17.11.2020 the Engineer received the joint complaint through the Employer's letter (N 2-05/13052);</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p> <p>On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);</p> <p>On 04.06.2021 the Employer reminded the Engineer to study the issue and inform him regarding the Engineer's position (N 2-08/8855);</p> <p>On 30.06.2021 the Employer once again reminded the Engineer to study the issue and inform him regarding the Engineer's position (N 2-08/10481);</p> <p>On 09.06.2021 the Employer was replied with the formal letter (1751-CKUSE60-UBM-GE) that the Contractor submitted the proposal for the construction of alternative access, and it was informed that the proposal was under the Engineer's review;</p>		
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7	UB M	30-09- 19	Zeinab Lomidze Khunevi (PK47+00)	Damag e to Infrastr ucture / Assets	She stated that the Contractor demolishes the land plot fence. (C/N 36.08.35.421)	<p>On 30.09.2019 Engineer received the letter of AP;</p> <p>On 18.10.2019, the letter (N0237) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor to take immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor (but there is not technical information regarding land plot border or construction buffer);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p><u>On the 18.02.2020 joint survey was implemented, and as a result, it's turned out that approx. The Contractor excavates 197 sq.m without the owner's permission. The Contractor is going to negotiate with Mrs Zeinab for compensation and provide her with a signed agreement;</u></p> <p>On 24.03.2020 Engineer instructed Contractor (Engineer's Letter N0670) to immediate start negotiation with the landowner in purpose to compensate for or recover the affected land plots and provide a signed agreement;</p> <p>On 17.04.2020 Engineer reminded the Contractor to make the negotiation with the landowner to settle down this matter. Finally,</p>	Accept ed 18-02- 20	Close d
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						<p>give a copy of the consensus developed between the two parties. In the case of nonagreement, the Contractor was required to share its feedback on the technical ground along with the copy of losses assessment and time of possession of land pot. The document must be shared with the Engineer (Engineer letter N0742);</p> <p><u>On 05.05.2020 Engineer informally received a signed Lease Agreement on the damaged part (approx. 197 sq.m.) of the complainant's land plot for three years;</u></p> <p><u>On 08.05.2020 Engineer received the Contractor's letter (N 20200508-1) with the attached Lease Agreement of the abovementioned portion of the land plot;</u></p> <p><u>On 13.05.2020 Engineer informed RD (through the letter N 0828) regarding a reached agreement between the Contractor and the AP along with the attached Lease Agreement;</u></p>		
8	UB M	07-10- 19	Gocha Lomidze Khunevi (PK49+00)	Damage to Infrastr ucture / Assets	<p>The Contractor excavated a portion (approx. 10 sq.m) of a land plot (C/N 36.08.33.067) of Mr Gocha's. Also, the access road to the abovementioned land plot is excavated by the Contractor.</p>	<p>On 07.10.2019 Engineer received the letter of AP;</p> <p>On 18.10.2019, the letter (N0237) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor for taking immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor (but there is not technical information regarding land plot border or construction buffer);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p>	Partially Accept/ Reject 18-02- 20	Closed

					<p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p><u>On the 18.02.2020 joint survey was implemented, and as a result, it's turned out that approx. The Contractor excavated 10 sq.m. The Contractor is going to negotiate with Mr.Gocha for compensation and provide him with a signed agreement;</u></p> <p>On 24.03.2020 Engineer instructed Contractor (Engineer's Letter N0670) to immediate start negotiation with the landowner in purpose to compensate for or recover the affected land plots and provide a signed agreement;</p> <p>On 17.04.2020 Engineer reminded the Contractor to make the negotiation with the landowner to settle down this matter. Finally, give a copy of the consensus developed between the two parties. In the case of non-consensus, the Contractor was required to share its feedback on the technical ground along with the copy of losses assessment and time of possession of land pot. The document must be shared with the Engineer (Engineer letter N0742);</p> <p>On 05.05.2020 Engineer once again reminded the Contractor (through the letter N 0796) to take necessary actions as it was instructed to settle down this matter;</p> <p><u>On 27.05.2020 Engineer received the letter (N20200527-1) from the Contractor (with annexed Refusal Report) that they offered 500 Gel to the complainant as compensation, but he refused to accept compensation as he thinks that the walnut tree is damaged and the access road is restricted;</u></p> <p>On 29.06.2020 Contractor was instructed during a weekly Social meeting to submit a formal refusal report as the annexed Refusal Report</p>		
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						<p>does not meet requirements as it isn't presented on the Contractor's official letter form in English and Georgian languages and isn't signed by an authorized person. Also, the <u>Contractor was instructed to the backfilled trench of Bridge N12 - AB2 (PK49+00) in purpose to recover excavated motorway access of the land plot;</u></p> <p><u>On 30.06.2020, the Contractor signed an Agreement with the complainant regarding compensation for the loses (HNRB/G/F2/E/ 20200707-3);</u></p> <p><u>On 07.07.2020, the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20200707-3) with the attached signed agreement between the parties;</u></p> <p><u>On 21.07.2020, the Engineer send a letter (0988-CKUSE60-UBM-GE) to RD with the attached signed agreement between both parties;</u></p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p>		
9	UBM	07-10-19	Malkhazi Rikadze Khunevi (PK47+00)	Damage to Infrastructure / Assets	<p>The Contractor excavated a portion (approx. 390 sq.m) from the land plot (C/N 36.08.35.460) of Mrs Malkhazi and also without permission, put the electric transformer on the complainant's land plot.</p>	<p>On 07.10.2019 Engineer received the letter of AP;</p> <p>On 18.10.2019, the letter (N0237) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor for taking immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor (but there is not technical information regarding land plot border or construction buffer; Also, as of</p>	Accepted 18-02-20	Closed

					<p>02.12.2019, the transformer is located on the local's land plot);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p><u>On the 18.02.2020 survey was implemented by the Contractor, and as a result, it's turned out that approx. 390 sq.m is excavated, and the Contractor put a transformer on the owner's land plot without permission. The Contractor is going to negotiate with Mr.Malkhazi for compensation and provide him with a signed agreement;</u></p> <p>On 24.03.2020 Engineer instructed Contractor (Engineer's Letter N0670) to immediate start negotiation with the landowner in purpose to compensate for or recover the affected land plots and provide a signed agreement;</p> <p>On 17.04.2020, Engineer reminded Contractor to make the negotiation with the landowner to settle down this matter. Finally, give a copy of the consensus developed between the two parties. In the case of non-consensus, the Contractor was required to share its feedback on the technical ground along with the copy of losses assessment and time of possession of land pot. The document must be shared with the Engineer (Engineer letter N0742);</p> <p>On 05.05.2020 Engineer once again reminded the Contractor (through the letter N 0796) to take necessary actions as it was instructed to settle down this matter;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020 & 02.06.2020, the Contractor was reminded to implement essential step as it was asked to</p>	
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						<p>settle down this matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 22.06.2020 Engineer receive the Amendment of the agreement (through Contractor letter N20200622-1), but the Contractor does not sign the Amendment, and the contract is not submitted to Engineer yet;</p> <p>On 29.06.2020 Contractor was instructed within a weekly Social meeting to present the agreement and the Amendment signed by both parties;</p> <p>On 07.07.2020 <u>Engineer received a signed Lease Agreement along with Amendment developed by both parties (HNRB/G/F2/E/20200707-3);</u></p> <p>On 21.07.2020, <u>the Engineer send a letter (0989-CKUSE60-UBM-GE) to RD with the attached signed Lease Agreement on a Plot of Land;</u></p>		
10	RD	03-10-19	Temur Tsitskishvili Khunevi (PK57+00)	Inclusion in LARP	<p>He stated:</p> <ol style="list-style-type: none"> During construction work in vil. Vertkvichala drinking water supply pipes were damaged. After completion of the construction work, the access road to the local cemetery, the pasture, the land plot, and to the neighbouring village will be blocked. He demands inclusion in LARP as he thinks that 	<p>On 03.10.2019 Engineer received the letter (N2-12/13630) from RD (with an attached letter of AP);</p> <p>On 18.10.2019, the letter (N0238) was submitted to the Contractor for further necessary actions;</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor for taking immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 13.11.2019 Engineer sent a letter (N0338) to RD regarding the status of logged complaints;</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor (but there is not technical information regarding alternative access to the cemetery and pasture; According to AP, the water pipes are recovered with the finances of the locals, but the Contractor does</p>	Partially Accepted/Rejected 03-04-20	Closed

				<p>living condition is deteriorated due to construction activities.</p> <p>(Cadastral N 36.08.33.209)</p>	<p>not pay promised remuneration as of 03.12.2019);</p> <p>On 18.11.2019, Engineer received the letter (N2-12/15552) from RD (with the attached statement of Mr Temur's daughter Mrs Tamuna Tsitskishvili);</p> <p>On 22.11.2019, the letter (N0360) was submitted to the Contractor to take up the matter urgently;</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p><u>On 25.03.2020 Engineer received a signed contract by both parties that the drinkable water supply pipes are repaired, and he has no claim in this regard (Contractor's Letter N20200325-1);</u></p> <p>On 03.04.2020 Engineer instructed the Contractor to arrange alternative motorway access to village Koshki before blocking the existing motorway access (Engineer's Letter N 0692);</p> <p><u>On 03.04.2020, Engineer sent a letter (N0693) to RD that the current motorway access (which goes through the existing road of village Koshki) to the local cemetery, the pasture, and the neighbouring village is not blocked, and he can pass through the construction area. Whereas, after the completion of construction works complainant will have alternative motorway access. Also, the access road to Mrs Tamuna Tsitskishvili's (Mr Temur's daughter) land plot is not affected either now or after the completion of the construction works.</u></p>	
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1 1	RD	15-10-19	Gela Lomidze Vertkvichala (PK70+00)	Inclusion in LARP	<p>He stated that:</p> <ol style="list-style-type: none"> 1. There is a threat of damage property by the vibration of construction work because the construction area is very close to the local's property. 2. They are forced to use access to the house through the construction area as the Family hasn't another access. 3. Also, in his opinion, there is a threat of landslide for his homestead land plot due to construction work. 4. Also, access to the house is deteriorated due to track moving, and there are mud and dust. 5. The Family demands inclusion in LARP as the living condition is worsened. <p>On 20.11.2019, Engineer got a Letter of the same content from RD. (Cadastral N 36.08.32.233)</p>	<p>On 15.10.2019 Engineer received the letter (N2-05/14091) from RD (with an attached letter of AP);</p> <p>On 18.10.2019, the letter (N0238) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 01.11.2019, the reminding letter (N0300) was submitted to the Contractor to take up the matter urgently;</p> <p>On 05.11.2019 Engineer sent a letter to Contractor (N0301) to take immediate actions;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 13.11.2019 Engineer sent a letter (N0338) to RD regarding the status of logged complaints;</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor;</p> <p>On 18.11.2019 Engineer received a reply letter (N20191118-1) from the Contractor;</p> <p>On 18.11.2019 Engineer received the letter (N2-12/15562) the complainant's statement through RD;</p> <p>On 19.11.2019 Engineer received a reply letter (N20191119-2) from the Contractor that motorway access to the local's house was not taken into consideration in the project design (but there is not technical information regarding alternative access road or retaining wall or vibration level during construction work; Also, Contractor partly recovered muddy access road, but it needs more gravel, but the evidence is not submitted);</p> <p>On 22.11.2019, the letter (N0362) was submitted to the Contractor to take up the matter urgently;</p> <p>On 26.11.2019 Engineer sent an interim letter (N0376) to RD, regarding the results of meeting with Mr.Gela Lomidze;</p>	Accepted 19-08-20	Closed
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					<p>On 12.12.2019 Engineer sent a letter (N0452) to the Contractor for to reassess the complaint and come up with solid measures;</p> <p>On 23.12.2019 Engineer sent a reminder letter (N0477) to the Contractor for take up matter urgently;</p> <p>On 23.12.2019 Engineer received the letter (N20191223-1) from the Contractor regarding the landslide issue;</p> <p>On 06.01.2020 Engineer received the letter (N20200106-3) from the Contractor that there is a landslide problem and the retaining wall is not into consideration of the design;</p> <p>On 13.01.2020 Engineer received the letter (N20200113-1) from the Contractor about a landslide incident due to intensive snow and rain;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p>On 16.01.2020 Engineer sent the letter (N0546) to the Contractor for necessary geological investigation;</p> <p><u>On 17.01.2020, Engineer sent the letter (N0556) to RD that the landslide risk is caused by loose ground rocks and excavated land plots within of construction area. Still, the retaining wall is not under consideration of the design despite the existing high risk of landslide. Also, the distance between the residential area and the edge of the carriageway is approx. 30m. Noise and emission barrier is not under consideration of the design. Land acquisition was recommended.</u></p> <p><u>On 10.02.2020, Mr Gela's Family temporarily shifted to the alternative residential house in village Vertkvichala;</u></p> <p><u>On 19.08.2020,</u> the land acquisition process completed;</p>	
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1 2	RD	28-10-19	Besik Kapanadze (PK121+00) Boriti	Restriction or loss of access	<p>He stated that after start construction work near his residential area, there is a threat of blocking the access road of his house. (Cadastral N 36.03.41.380).</p>	<p>On 11.10.2019 Engineer received the letter (N2-05/14013) from RD (with an attached letter of AP);</p> <p>On 29.10.2019, the letter (0281-CKUSE60-UBM-GE) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (0301-CKUSE60-UBM-GE) (with attached grievance list) to the Contractor to take immediate actions;</p> <p>On 12.11.2019 Engineer sent a reminder letter (0333-CKUSE60-UBM-GE) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 13.11.2019 Engineer sent a letter (0338-CKUSE60-UBM-GE) to RD regarding the status of logged complaints;</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor;</p> <p>On 18.11.2019 Engineer received a reply letter (N20191118-1) from the Contractor that Mr Basik's house property location belongs F3 section, but there is not situational drawing with orthophoto with construction plan (for verification);</p> <p>On 12.12.2019 Engineer sent a reminder letter (0454-CKUSE60-UBM-GE) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 23.12.2019 Engineer sent a letter (0479-CKUSE60-UBM-GE) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p><u>On 23.01.2020 Engineer sent the letter (N 0573) to RD that the access road will not be affected due to the construction of F2 as the distance between the construction area and residential area is approx. 170 meters. Also, Mr.Besik was</u></p>	Rejected 20-11-19	Close
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						<u>informed about the findings, and he has not any additional issues in this regard.</u>		
1 3	UB M	28-10- 19	Eteri Barbakadze Vertkvichala (PK63+50)	Damag e to Infrastr ucture / Assets	She stated that the cattle destroyed the agricultural plants because the Contractor damaged the fence. They require compensation or restoration of demolished walls and agricultural plants. (Cadastral code 36.08.32.077)	<p>On 28.10.2019 Engineer received the letter of AP;</p> <p>On 29.10.2019, the letter (N0282) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor for taking immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor (the feedback is unclear, there is not submitted any technical information regarding the local's land plot border or construction buffer);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p>On 29.01.2020 Engineer received the letter (N2-03/1048) form RD with attached Citizen Eteri Barbakadze's complaint;</p> <p><u>On 12.02.2020 Engineer received the letter (N20200212-1) from the Contractor with attached signed agreement by both parties;</u></p> <p><u>On 18.02.2020 Engineer sent the letter (N0599) to RD with the attached signed contract by both parties.</u></p>	Accepted 11-02- 20	Close d

14	UBM	29-10-19	Gia Gogoladze Vertkvichala (PK60+50)	Inclusion in LARP	<p>He stated that:</p> <ol style="list-style-type: none"> 1. His own business is affected by July 2019 due to the disturbance of construction works. 2. New cracks were developed, and existing cracks became more prominent on the walls of the restaurant due to vibration caused by construction works. 3. The risk of flooding is caused due to a narrowed river bed and arranged a service bridge by the Contractor. 4. In his opinion, the distance between the construction area and his property is 8-10 meters. <p>(Cadastral N 36.08.32.002)</p>	<p>On 29.10.2019 AP contacted Engineer social expert by phone call and inform regarding his complaint;</p> <p>On 05.11.2019 Engineer sent letter (N0301) (with attached grievance list) to Contractor for investigation;</p> <p>On 12.11.2019 Engineer sent reminder letter (N0333) to Contractor (with attached grievance list, where is short descriptions and measures taken of each grievances);</p> <p>On 12.11.2019 Engineer received the letter (N2-05/15342) from RD (with attached letter of AP and CD with photos of restaurant);</p> <p>On 15.11.2019 Engineer received reply letter (N20191115-6) from Contractor, but there is not any technical information regarding causes of damage, what work should be implemented for recover damage or elimination plan of damages;</p> <p>On 22.11.2019 the letter (N0357) was submitted to Contractor for take immediate actions (with attached letter of RD);</p> <p>On 12.12.2019 Engineer sent reminder letter (N0454) to Contractor for to receive engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 06.01.2020 Engineer received the letter (N20200106-3) from Contractor that they will observe building conditions;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to Contractor with attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with signed agreement;</p> <p>On 18.02.2020 Engineer sent the letter (N0600) to RD that noncompliance was observed that distance between restaurant and edge of the carriageway is approx. 25 meters with no noise/emission barrier (10m wide green barrier) consideration of the design. Hence, land acquisition was recommended;</p>	Forwarded to RD	Open
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					<p>On 13.07.2020 the Engineer received the Commission's decision (through RD's letter N 2-12/7237) that the Contractor have to carry out regular monitoring of the building during implementing the construction works and after completion of the construction works in case if the technical conditions of the building will be deteriorated the Commission will discuss the issue again;</p> <p>On 23.07.2020 the Engineer and the Contractor received Mr.Gia's statement (through RD's letter N 2-05/7750) which refers negative impacts on the restaurant caused by the construction activities;</p> <p>On 18.08.2020 the Contractor was instructed to implement necessary monitoring and mitigation measures for the restaurant of Citizen Gia Gogoladze (1046-CKUSE60-UBM-GE);</p> <p>On 18.09.2020 the Contractor was instructed to immediately start the negotiation with the complainant in purpose to find the end to end solution, which should be reflected in the signed agreement and copy must be submitted to the Engineer. Also, the Contractor was reminded to immediately start the regular monitoring of the vibration, noise and dust for the restaurant and submit results to the Engineer through the formal letters on a weekly basis (1121-CKUSE60-UBM-GE);</p> <p>On 18.09.2020 the Employer was informed that 1) new cracks were developed in the wall and ceiling of the restaurant. 2) the Contractor arranged new service bridge away from the pre-existing location, thus increased the distance between the restaurant and the service bridge (from 42 m up to 93 m). At the same time, the Contractor increased the diameter (from 100 cm up to 150 cm) and quantity of the iron pipes of the service bridge in purpose to reduce the risk of the restaurant damage during flooding. 3) the Contractor was instructed to carry out necessary</p>		
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					<p>monitoring and mitigation measures (1124-CKUSE60-UBM-GE);</p> <p>On 08.10.2020 the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20201008-1) that the monitoring was implemented and the results will be submitted when the monitoring results come out;</p> <p>On 14.10.2020 the Contractor was reminded 1) To implement necessary monitoring on a weekly basis submit results to the Engineer weekly. 2) Negotiate with the complainant regarding necessary remedy and compensation as the restaurant business is hindered and the walls and foundation are damaged by the construction works (which eventually forced Mr.Gia to stop doing restaurant business) (1234-CKUSE60-UBM-GE);</p> <p>On 18.10.2020 the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20201018-1) that: 1) Final test results of will be submitted to the Engineer after the third-party company submits it; 2) Since the owner's request for acquisition of the restaurant is not the Contractor's responsibility;</p> <p>On 12.11.2020 the Contractor was reminded through the letter (1307-CKUSE60-UBM-GE) to take up this matter with Mr. Gia as it was instructed in the previous letters;</p> <p>On 15.11.2020 the Contractor submitted test results of dust, noise and vibration implemented by the third-party company on 15.10.2020 (HNRB/G/F2/E/ 20201115-4);</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p>		
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					<p>On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);</p> <p>On 17.04.2021 the Engineer was informed by the Employer that Mr. Gogoladze has applied to Court for getting compensation of the incurred losses. Hence, the Engineer was requested to provide the Employer with an information regarding type of actions, which the Contractor has implemented in order to recover the damages and compensate the incurred loss of the restaurant. In case of negative response, the Employer requested the relevant reasons (N 2-12/5638);</p> <p>On 17.04.2021 the Contractor was instructed to act according to the Employer's above request and submit the relevant information along with the documentation to the Employer, as soon as possible (1636-CKUSE60-UBM-GE);</p> <p>On 19.04.2021 the Contractor stated through the formal letter (HNRB/G/F2/E/20210419-5) as follows: "At the meeting held on April 19,2021 in Contractor's conference room, the Contractor offered a restoration to the owner, however, according to the position of Mr. Gia Gogoladze, the damaged immovable property is not subject to restoration anymore and it is necessary to redeem it. As the representatives of the Contractor explained to Mr. Gia Gogoladze, the redemption of the mentioned property is not the competence of the Contractor, at the same time, the Contractor expresses its readiness to repair the property with the consent of the owner.";</p> <p>On 21.04.2021 the Contractor was instructed to:</p> <ul style="list-style-type: none">- Submit the Minutes of Meeting held on April 19, 2021, in the Contractor's conference room with Mr. Gogoladze;- Continue further negotiations with Mr. Gogoladze to recover the damaged and compensate the incurred loss of the restaurant "Sanapiro" due to the construction work of Khevi-Ubisa (F2) section. Finally, provide a		
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						<p>consensual agreement signed by the both parties and submit to the Engineer; - Comply with Environmental Impact Assessment and carry out all defined monitoring and mitigation measures for the restaurant and report to the Engineer (1645-CKUSE60-UBM-GE);</p> <p>On 21.04.2021 the Employer was informed through the formal letter (1646-CKUSE60-UBM-GE) regarding the Contractor's above statement and the Engineer's above instructions;</p>		
15	UBM	29-10-19	Malkhaz Lomidze Khunevi (PK48+50)	Damage to Infrastructure / Assets	<p>He stated that the Contractor excavated his land and destroyed trees. Also, there is a risk of blocking the access road.</p> <p>(C/N 36.08.33.836)</p>	<p>On 29.10.2019 Engineer received a complaint from AP by a phone call;</p> <p>On 29.10.2019, the letter (N0282) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor for taking immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor (but there is not technical information regarding land plot border or construction buffer or alternative access road);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p><u>On 18.02.2020 joint survey was implemented, and as a result, it's turned out that the Contractor has not excavated the land plot of Mr Malkhaz, even the access road is blocked neither on the</u></p>	Rejected 13-02-20	Closed

						<p><u>construction phase nor on after completion of the construction phase;</u></p> <p>On 12.03.2020, Mr Malkhaz was informed via phone call about findings;</p> <p>On 05.03.2020 Engineer received the results of the survey from the Contractor that the land plot of Mr Malkhaz is not affected by the Contractor (letter 20200305-5);</p> <p>On 03.04.2020 Engineer instructed the Contractor to formally share the result of the investigation to the complainant and copy to Engineer and RD (Engineer's Letter N 0695);</p> <p>On 17.04.2020 Engineer reminded the Contractor to formally share the results with the complainant for his satisfaction that his land plot is not affected due construction activities of F2 and send a copy to the Engineer (Engineer's letter N 0742);</p> <p>On 05.05.2020 Engineer once again reminded the Contractor to formally share the results with the complainant for his satisfaction or provide a consensus signed both parties (Engineer's letter N 0796);</p> <p>On 29.06.2020 Contractor was reminded during a weekly Social meeting that in purpose to complete the issue, the Contractor has to formally share the results with the complainant for his satisfaction or provide a consensus signed both parties;</p> <p>On 07.07.2020, <u>the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20200707-3) with the attached signed agreement regarding the satisfaction of the complainant;</u></p> <p>On 18.08.2020, <u>the Engineer sent the letter (1047-CKUSE60-UBM-GE) to RD with the attached signed contract by both parties;</u></p>		
16	RD	28-10-19	Darejan Barbakadze Amashuketi	Restriction or loss of access	She stated that: 1) The shortest access road from the house to the cemetery is	On 28.10.2019 Engineer received the letter (N2-05/14624) from RD (with an attached letter of AP);	Forwarded to RD	Open

			(PK102+00)		<p>permanently blocked by construction work.</p> <p>2) She is forced to use access to her home through the construction area.</p> <p>3) The Contractor damages the electric transmission poles.</p> <p>(C/N 36.03.39.043)</p>	<p>On 29.10.2019, the letter (N0281) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 05.11.2019 Engineer sent a letter (N0301) (with attached grievance list) to the Contractor for taking immediate steps;</p> <p>On 12.11.2019 Engineer sent a reminder letter (N0333) to the Contractor (with attached grievance list, where is short descriptions and measures taken of each grievance);</p> <p>On 13.11.2019 Engineer sent a letter (N0338) to RD regarding the status of logged complaints;</p> <p>On 15.11.2019 Engineer received a reply letter (N20191115-6) from the Contractor;</p> <p>On 18.11.2019 Engineer received a reply letter (N20191118-1) from the Contractor, but there is not any technical information regarding alternative access roads;</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 23.12.2019 Engineer sent a letter (N0478) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 09.01.2020 Engineer received the letter (N2-05/126) from RD with the attached letter of complainants;</p> <p><u>On 16.01.2020, Engineer sent the letter (N0547) to RD regarding 3 recommended alternative access road options, along with the signed agreement between both parties that the electric transmission poles are restored.</u></p>		
17	UBM	24-10-19	Nino Bliadze Vertkvichala	Inclusion in LARP	<p>She stated that:</p> <p>1. The family is disturbed by vibration caused by construction work, and there is</p>	<p>On 24.10.2019 during visit at Mr.Nino Bliadze's house Engineer was instructed by representatives of RD with verbal regarding crack marking material;</p>	Forwarded to RD	Open

		(PK67+00)	<p>a property damage threat. The family requires that their house cracks should be marked with new proper special tapes as natural impacts remove old ones;</p> <p>2. Also, access to the house is deteriorated due to track moving, and there are mud and dust;</p> <p>3. Also, the concrete drainage pipe is damaged by the Contractor due moving of heavy equipment;</p> <p>4. The family demands inclusion in LARP as their house is located close to Project road.</p> <p>(Cadastral N 36.08.32.200;36.08.32.201)</p> <p>On 24.06.2021 the Employer forwarded the application of Ms. Nino Bliadze concerning disturbance with noise and dust caused due to the Contractor's</p>	<p>On 29.10.2019 the letter (N0284) was submitted to Contractor for further necessary actions (for proper crack marking);</p> <p>On 01.11.2019 Engineer received the letter (N2-12/14869) from RD (with attached letter of Mrs. Nino);</p> <p>On 05.11.2019 Engineer sent letter (N0301) (with attached grievance list) to Contractor for take immediate actions;</p> <p>On 12.11.2019 Engineer sent reminder letter (N0333) to Contractor (with attached grievance list, where is short descriptions and measures taken of each grievances);</p> <p>On 13.11.2019 the letter (N0339) was submitted to Contractor for take up matter urgently (with attached letter of RD);</p> <p>On 13.11.2019 Engineer sent letter (N0338) to RD regarding status of logged complaints;</p> <p>On 15.11.2019 Engineer received reply letter (N20191115-6) from Contractor (Contractor partly recovered muddy access road but it needs more gravel, also Contactor recovered damaged drainage pipe, but there is not technical information regarding vibration level during construction work, alternative access road. Also, as of 02.12.2019 Contractor not yet implemented crack marking with proper material (according to RD's verbal instructions));</p> <p>On 03.12.2019 Engineer received letter (N20191203-4) from Contractor for approval (crack marking of the house);</p> <p>On 05.12.2019 Engineer sent letter (N0405) to Contractor for take immediate actions (for crack marking);</p> <p>On 12.12.2019 Engineer sent reminder letter (N0454) to Contractor for to receive engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 13.12.2019 Engineer sent letter (N0457) to Contractor in reference letter (N20191203-4)</p>	
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				<p>construction works near to her residential house (N 2-08/10167);</p> <p>that the information provided in it are not sufficient to meet the requirements. Also, Contractor was instructed regarding necessary data/information which is required along with the crack marker;</p> <p>On 06.01.2020 Engineer received the letter (N20200106-3) from Contractor that secondary access road is into consideration of the design;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to Contractor with attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with signed agreement;</p> <p>On 03.02.2020 Engineer received the letter (N 2-12/1341) from RD with attached statement of Mrs. Nino Bliadze;</p> <p>On 20.02.2020 Engineer received the letter (N 2-05/2216) from RD with attached statement of Mrs. Nino Bliadze;</p> <p>On 24.02.2020 Engineer received the letter (N20200224-2) from Contractor that they trying to improve situation by sprinkling the road;</p> <p>On 03.03.2020 Engineer instructed Contractor (Engineer Letter N0621) with necessary mitigation measurements and remedial actions for to reduce negative affects on living conditions of Nino Bliadze's family;</p> <p>On 03.03.2020 Engineer sent the letter (N0622) to RD that the noncompliance was observed that distance between residential area and edge of the carriageway is approx. 17 meters with no noise/emission barrier (10m wide green barrier) consideration of the design. Hence, land acquisition was recommended;</p> <p>On 17.04.2020 Engineer reminded Contractor to reconstruct the damaged flooding channel (concrete drainage pipe) as per the desire of the complainant and settlement should be come up in the form of signed agreement and copy must be submitted to Engineer. Also, Contractor was</p>		
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					<p>instructed once again regarding necessary mitigation measurements (Engineer's letter N0742);</p> <p>On 05.05.2020 Engineer once again reminded Contractor (through the letter N 0796) to recover the damaged concrete drainage pipe as per the desire of the complainant and implement necessary survey of technical conditions of the complainant's Buildings/Structures and submit consensus developed by both parties. Also, Contractor was instructed regarding necessary mitigation measurements for to reduce disturbance in the settlement;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020, 02.06.2020 & 29.06.2020 the Contractor was reminded to implement necessary action as it was instructed in order to settle down this matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 03.06.2020 a Site inspection was implemented and as a result it found out that the drainage pipe is recovered by Contractor;</p> <p>On 29.07.2020 the Engineer received Mrs.Nino's statement (through RD's letter N 2-12/7956) regarding the demolition of building due construction activities;</p> <p>On 03.08.2020 joint Site inspection was implemented and as a result it is found out that the building (cattleshed) was collapsed due vibration caused by movement of heavy equipment. Fortunately, the above mentioned building is located in the part of the land plot (C/N 36.08.32.201) which shall be acquired due Project needs. Also, the little part of the yard fence (constructed with a building blocks) was collapsed and the negotiation regarding the compensation is ongoing between the parties.</p> <p>On 25.08.2020 the Contractor was instructed to carry out vibration monitoring for Nino Bliadze's family owned house during piling of P15-TA and P16-AT of Bridge N13 as soon as the piling process begins (1077-CKUSE60-UBM-GE);</p>		
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					<p>On 25.08.2020 RD was informed that the above-reported loss of building (cattle shed) was confirmed during the site inspection which locates on the part of Ms. Nino Bliadze's family owned land plot which is within the ROW. Besides, Ms. Nino's yard fence was also damaged due to vibration, which locates on the land plot which isn't subject of acquisition. Hence, the Contractor is doing the negotiations with her to settle this matter (1079-CKUSE60-UBM-GE);</p> <p>On 02.09.2020 the technical condition of Mrs. Nino's house was inspected and described by third part company ``Gama Consulting``;</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 14.12.2020 the Engineer was reminded through the formal letter (1386-CKUSE60-UBM-GE) to carry out necessary mitigation measures as per Appendix X of Technical Specification as follows:</p> <ul style="list-style-type: none">• Provide hard surface in the construction area along the complainant's residential area;• Effective use of water sprays must be implemented, during dry weather, at least 3 times in a day;• Working hours shall be limited to 8 AM to 6 PM within 250 meters from the residential area of the complainant. Besides, weekly dust and noise monitoring shall be implemented for the residential house of the complainant, during peak construction hours, by an authorized third-party company, and results shall be reported to the Engineer; <p>On 24.12.2020 the technical inspection report of 16 private buildings (provided by the third-party company) was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p> <p>On 28.12.2020 the Employer asked to the Engineer to specify time which is necessary to complete the ongoing construction activities</p>	
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						<p>(including movement of construction equipment) in the Site (PK67+00) near to the residential area of Ms. Nino's family (N 2-12/14889);</p> <p>On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);</p> <p>On 23.01.2021 the Contractor was instructed to submit the factual position along with schedule for the completion of construction activities near to the residential area of Ms. Nino's family (1457-CKUSE60-UBM-GE);</p> <p>On 24.06.2021 the Employer forwarded the application of Ms. Nino Bliadze concerning disturbance with noise and dust caused due to the Contractor's construction works near her residential house. Also, the Employer instructed the Engineer to consider the issue and take mitigation measures provided by the Project near the mentioned residential house and carry out daily monitoring and report the results periodically (N 2-08/10167);</p> <p>On 06.07.2021 the Employer's above instruction was forwarded to the Contractor with the formal letter (1804-CKUSE60-UBM-GE) stating to comply with Clause 4.18 of GCC and PCC and carry out mitigation measures regularly, as per Appendix X of Technical Specification (EMP) and report to the Engineer for time to time. Besides, the Contractor was reminded to order his subcontractor (DG Consulting), to carry out dust and noise instrumental monitoring at least on a monthly basis, for Ms. Blidze's family-owned residential house and report to the Engineer;</p>		
18	RD	11-11-19	Marat Tsitskishvili Vertkvichala (PK57+00)	Restriction or loss of access	<p>He stated that the family is forced to use access to their house through a construction area, but after the</p>	<p>On 11.11.2019 Engineer received the letter (N2-12/15288) from RD (with an attached letter of AP);</p> <p>On 13.11.2019, the letter (N0339) was submitted to the Contractor for further necessary actions (for investigation);</p>	Partially Accept/Reject 03-04-20	Closed

					<p>completion of construction works, the access road may be blocked permanently;</p> <p>(C/N 36.08.33.244)</p>	<p>On 13.11.2019 Engineer sent a letter (N0338) to RD regarding the status of logged complaints;</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0454) to the Contractor to receive the engineering point of view on the self-explanatory location map referenced to the complaints;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p>On 03.04.2020 Engineer instructed the Contractor to arrange alternative motorway access to village Koshki before blocking the existing motorway access (Engineer's Letter N 0692);</p> <p><u>On 03.04.2020, Engineer sent a letter (N0693) to RD that the current motorway access (which goes through the existing road of village Koshki) to the complainant's residential area is not blocked and he can pass through the construction area. Whereas, after the completion of construction works complainant will have alternative motorway access. Also, the Contractor rented the abovementioned land plot along with the residential house of the complainant.</u></p>			
19	Government	12-11-19	Omar Grigalashvili Sakasria (PK99+00)	Restriction or loss of access	<p>According to the complainant's statement, the access road to his land plot (C/N 36.03.37.035) is blocked due to construction work, and the Contractor excavates the land plot, and due to this, there is a threat of landslide.</p>	<p>On 12.11.2019 Engineer received the letter (N354/50) from the Municipal Council of Kharagauli;</p> <p>On 13.11.2019, the letter (N0339) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 15.01.2020 <u>Engineer received the letter (N20200115-3) from the Contractor with the attached signed agreement;</u></p> <p>On 22.01.2020, 12:09 <u>Engineer contacted to Citizen Omar via phone call to clarify if the complaint was satisfied. As a result of</u></p>	Accepted	14-01-20	Closed

						<p><u>communication, it was explained that Citizen Omar's complaint is satisfied;</u></p> <p><u>On 23.01.2020 Engineer sent the letter (N0574) to RD with the attached signed agreement;</u></p>		
20	UBM	12-11-19	<p>Vil. Vashlevi Public School represented by Director Mrs Ketino Lursmana shvili (PK86+00)</p>	<p>Damage to Infrastructure / Assets</p>	<p>She stated that the school fence is damaged by the Contractor, particularly the fencing poles, which was excavated. Moreover, a new fence installed by the Contractor is dangerous for children being having its sharp topup (edges). (Cadastral N 36.03.36.023)</p>	<p>On 12.11.2019, Engineer social specialist got verbal information;</p> <p>On 04.12.2019 Engineer sent a letter (N0406) to the Contractor for further necessary actions (for remedy);</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p>On 17.04.2020, Engineer reminded the Contractor to reinstall the poles with concrete and replace or cover up the sharp edges for the safety of the children. Finally, get the satisfaction report in the form of the signed agreement and copy should be forwarded to Engineer for his reference (Engineer's letter N0742);</p> <p>On 05.05.2020 Engineer once again reminded the Contractor (through the letter N 0796) to implement necessary remedial actions to settle down the matter as it was instructed;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020 & 02.06.2020, the Contractor was reminded to execute essential step as it was asked to settle down this matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 22.06.2020 <u>Engineer received a signed agreement (through the Contractor's letter N20200622-1) that the school fence has been repaired, on which the complainant has no objection after checking;</u></p> <p>On 21.07.2020, <u>the Engineer send a letter (0992-CKUSE60-UBM-GE) to RD with the attached signed agreement between both parties;</u></p>	<p>Accepted 18-06-20</p>	<p>Close d</p>

2 1	RD	12-11-19	A joint statement from Vil.Vashlevi & Vil.Tsikhisdziri (PK102+00)	Restriction or loss of access	The shortest access road between vil. Vashlevi & vil. Tsikhisdziri is blocked permanently due to construction work.	<p>On 12.11.2019 Engineer received the letter (N2-12/15354) from RD (with an attached letter of locals);</p> <p>On 22.11.2019, the letter (N0361) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 12.12.2019 Engineer sent a reminder letter (N0453) to the Contractor for taking immediate measures;</p> <p><u>On 20.01.2020 Engineer sent the letter (N0547) to RD regarding 3 recommended alternative access road options;</u></p>	Forwarded to RD	Open
2 2	RD	12-11-19	Elguja Mumladze Vertkvichala (PK62+00)	Damage to Infrastructure / Assets	The Contractor excavated a portion (approx. 900 sq.m) from the land plot (C/N 36.08.32.251) of Mrs Elguja without permission.	<p>On 12.11.2019 Engineer received the complaint letter (N2-12/15341) through RD;</p> <p>On 22.11.2019, the letter (N0363) was submitted to the Contractor for further necessary actions (for investigation);</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p><u>On 03.02.2020 Engineer received the letter (N20200203-2) from the Contractor that the survey was implemented, and as a result, it found out that approx. The Contractor excavates 895 sq.m. The contractor is negotiating with Mr Elguja for compensation payment and provide him with a signed agreement;</u></p> <p>On 04.04.2020 Engineer instructed the Contractor to do the negotiations based on the technical ground and come up with the signed agreement by both parties (Engineer's Letter N0699);</p> <p>On 17.04.2020 Engineer reminded the Contractor to make negotiations with the landowner to settle down this matter and finally provide a copy of the consensus developed between the two parties. In the case of non-consensus, the Contractor was required to</p>	Accepted 19-06-20	Closed

						<p>share its feedback on the technical ground along with the copy of losses assessment and time of possession of the land plot. The document must be shared with the Engineer (Engineer's letter N 0742);</p> <p>On 05.05.2020, Engineer once again reminded the Contractor (through the letter N 0796) to formally communicate the results with the complainant for his satisfaction or provide a consensus signed both parties;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020 & 02.06.2020, the Contractor was reminded to implement necessary action as it was instructed to settle down this matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p><u>On 22.06.2020 Engineer received the signed lease agreement of excavated part of the land plot (Contractor's letter N 20200622-1);</u></p> <p><u>On 21.07.2020 Engineer send a letter (0986-CKUSE60-UBM-GE) to RD with the attached signed Lease Agreement on a Plot of Land;</u></p>		
23	UBM	16-12-19	Malkhaz Lomidze Vertkvichala (PK57+00)	Damage to Infrastructure / Assets	<p>He stated that:</p> <p>1. The drinkable water supply underground pipeline (approx. 2 km long) from vil. Khunevi was damaged during construction work held between Bridge N12 to Tunnel N8 and demands an official commitment that the water supply underground pipeline will be restored on the completion of</p>	<p>On 25.12.2019 Engineer sent a letter (N0499) to the Contractor for further necessary actions (for investigation);</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to the Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p> <p>On 03.04.2020 Engineer instructed Contractor to arrange alternative motorway access to village Koshki before blocking the existing motorway access (Engineer's Letter N 0692);</p> <p>On 03.04.2020, Engineer sent a letter (N0693) to RD that the current motorway access (which goes through the existing road of village Koshki) to the local cemetery, the pasture and the neighboring village is not blocked, and he can pass through the construction area. Whereas,</p>	Partially Accepted/Rejected 03-04-20	Closed

				<p>construction work.;</p> <p>2. He demands inclusion in LARP as, in his opinion, living conditions are deteriorated due to construction work because there is no more pasture left, and the access from his house to the local cemetery is blocked due construction works.</p> <p>(C/N 36.08.33.017).</p>	<p>after the completion of construction works complainant will have alternative motorway access;</p> <p>On 17.04.2020, Engineer reminded Contractor (through Engineer's letter N 0742) to give commitment in writing to the complainant regarding the restoration of the water supply pipe once the construction work is completed. The copy of commitment should be forwarded to Engineer to his record;</p> <p>On 05.05.2020 Engineer once again reminded Contractor (through the letter N 0796) to give commitment in writing to the complainant for his satisfaction and submit a copy to Engineer as it was instructed;</p> <p><u>On 08.05.2020, Engineer received Contractor's letter (N 20200508-1) with the attached Agreement and Acceptance-Delivery Act (Appendix 30.1), which refers to another water supply pipeline (which AP has) but the second underground pipeline of drinkable water supply from vil. Khunevi which is damaged (approx. 2 km long) between Bridge N12 and Tunnel N8 isn't agreed yet;</u></p> <p>On 13.05.2020 Engineer informed Contractor that the feedback (N 20200508-1) along with attached agreements (Appendix 30.1) doesn't refer to the complainant's demand regarding the damaged second drinkable water supply underground pipeline and the AP still awaiting an official commitment by the Contractor- (Engineer's Letter N 0829);</p> <p><u>On 13.05.2020 Engineer informed RD (through the letter N 0835) that the Contractor has reached the agreement with complainant which deals with the restoration of one of the two independent drinkable water supply pipeline;</u></p> <p>On 11.05.2020, 18.05.2020, 26.05.2020, 02.06.2020 & 29.06.2020 the Contractor was reminded to implement necessary action as it was instructed to settle down this matter</p>	
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						<p>(Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 23.07.2020 <u>the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20200723-6) with the attached signed agreement between the parties:</u></p> <p>On 25.07.2020 <u>the Engineer send a letter (1017-CKUSE60-UBM-GE) to RD with the attached signed agreement between both parties:</u></p>		
24	UBM	16-12-19	Shalva Barbakadze Sakasria (PK80+00)	Loss of businesses	<p>Mr Shalva stated that he had arranged the rock crushing plant and the building block workshop on his land plot (C/N 36.03.37.422) leased by the Contractor, which is dismantled by Contractor in purpose to arrange soil disposal site on the Property. But, under the contract, the Contractor does not undertake to bring the facilities as mentioned above to its original condition after the expiration of the agreement. The citizen demands to obtain the facilities as mentioned above to its original condition.</p>	<p>On 23.12.2019 Engineer sent a letter (N0480) to Contractor for further necessary actions (to satisfy demands regarding fair terms of the contract);</p> <p>On 17.04.2020, Engineer reminded Contractor (through Engineer's letter N 0742) to revise the terms or conditions of the contract to satisfy the complainant and submit a copy of the revised contract agreement to Engineer. In the case of non-consensus, the Contractor should share (copied to Engineer) its feedback along with the specification of losses;</p> <p>On 05.05.2020 Engineer instructed Contractor (through the letter N 0796) to implement necessary actions to settle this matter as it was suggested;</p> <p>On 11.05.2020, 18.05.2020 & 26.05.2020 Contractor was advised to perform activities required to settle down this matter as it was instructed (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 27.05.2020 <u>the Contractor refused to change the terms of the signed Lease Agreement (letter N 20200527-1);</u></p> <p>On 02.06.2020 & 29.06.2020 the Contractor was reminded to implement necessary action as it was instructed to settle down this matter (Engineer's letter N0892 Dated: 05.06.2020);</p> <p>On 07.07.2020 <u>the Contractor refused to change the terms of the signed Lease Agreement (HNRB/G/F2/E/ 20200707-3);</u></p>	Forwarded to CC	Open

						<p>On 25.08.2020 <u>the Contractor was instructed once more to revise the terms and conditions of the contract to satisfy the complainant (1078-CKUSE60-UBM-GE);</u></p> <p>On 21.09.2020 and 05.10.2020 <u>the Contractor was instructed during Social Meeting to settle down the matter as directed in the previous letters and meetings (1262-CKUSE60-UBM-GE);</u></p> <p>On 21.01.2021 the Contractor offered a proposal to the complainant and now the Contractor is awaiting his decision;</p> <p>On 14.01.2021 the Employer was informed that the Contractor was repeatedly advised through the formal letters to make a negotiation with the complainant to come up with the solution in the form of contract variation but unfortunately, he didn't take any notice; Therefore, the Engineer requested involving an appropriate commission or 3rd party for the solution of this long-pending issue (1446-CKUSE60-UBM-GE);</p> <p>On 15.03.2021 the Employer stated that RD is not a party to the contract between Mr. Shalva Barbakadze and the Contractor, as they are in independent, civil-legal relations. Consequently, RD is unable to intervene in the dispute arising between the parties (N 2-05/3547);</p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p>		
25	UBM	16-12-19	Elguja Machavariani Vertkvichaila (PK69+00)	Other	<p>He stated that the Contractor uses his land plot (36.08.32.209) from the middle of August 2019, and as of 18 December 2019, there is no rental</p>	<p>On 18.12.2019 Engineer sent a letter (N0465) to Contractor for further necessary actions (to ensure lease agreement and answer to questions);</p> <p>On 24.12.2019 <u>Engineer received reply letter (N20191224-2) from Contractor with attached Lease Agreement and letter of the local landowner's confirmation;</u></p>	Accepted 17-12-19	Closed

					agreement in writing.	<p>On 28.12.2019 <u>Engineer sent the letter to RD with attached Lease Agreement and ``Letter of the local landowner's acceptance `` for information:</u></p> <p>On 06.01.2020 Engineer sent the letter (N0517) to Contractor that the amicable mutual resolution should be interpreted on a standard form and to be signed by the complaint owner and Contractor (like Minutes of Agreement);</p> <p>On 17.04.2020 Engineer reminded Contractor (through Engineer's letter N 0742) that the amicable mutual resolution should be interpreted on a standard form and should be signed by both parties and submit a copy to Engineer;</p> <p>On 28.04.2020 Engineer received Contractor's response letter (N20200428-1) that the problem has been solved, but there is not attached ``Letter of the local landowner's confirmation`` signed by both parties and presented as official agreement as it was required;</p> <p>On 05.05.2020 Engineer once again instructed Contractor (through the letter 0796) that the amicable mutual resolution should be interpreted on a standard form and should be signed by both parties;</p> <p>On 22.06.2020 <u>Engineer received a signed agreement developed by both parties that Mr Elguja don't have any complaint (Contractor's letter N20200622-1):</u></p>		
26	UBM	16-12-19	Nukri Macharas hvili Sakasria (PK72+00)	Damage to Infrastructure / Assets	<p>The access route is deteriorated due to the movement of heavy vehicles, construction activities damaged the asphalted road, and underground culvert is also blocked.</p>	<p>On 23.12.2019 Engineer instructed Contractor (through the letter N0484) to restore the pre-existing condition of the access road and the blocked culverts;</p> <p>On 16.01.2020 Engineer sent the letter (N0545) to Contractor with an attached list of complainants who all must be provided with evidence and also, the list of complaints which must be resolved immediately and approved with a signed agreement;</p>	Accepted 30-06-20	Closed

					<p>On 17.04.2020 Engineer reminded Contractor to restore the access road and the culvert to its original position and do the signed agreement with the complainant and submit a copy to Engineer along with the description of pre-existing site situation (Engineer's letter N 0742);</p> <p>On 05.05.2020 Engineer once again reminded Contractor (through the letter N 0796) to restore the access road and the culvert its original condition for the complainant's satisfaction and submit consensus developed by both parties;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020, 02.06.2020 & 29.06.2020 Contractor was reminded to implement necessary action for to settle down the matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 30.06.2020, <u>a joint meeting was held to the settlement with attendance of representatives of local government, the Contractor, the Engineer, and the residents in purpose to find out the solution. As a result, the Contractor and the residents verbally agreed that after 1-2 months when the construction activities will be finalized near the settlement (as Contractor has to construct a retaining wall and a stadium), the access road and the culvert will be restored by the Contractor. Before that, the Contractor has to provide the residents with formal commitment accordingly to the verbal agreement;</u></p> <p>On 07.07.2020 <u>Engineer received the signed Agreement between both parties (HNRB/G/F2/E/ 20200707-3);</u></p> <p>On 30.08.2020 <u>Engineer received the signed Agreement between both parties (HNRB/G/F2/E/ 20200830-2);</u></p> <p>On 09.09.2020 <u>the Employer was informed that the agreement had been reached between the parties to solve the issues as mentioned above after the completion of the planned stadium construction and shore protection works in the adjacent area (1106-CKUSE60-UBM-GE);</u></p>		
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						On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);		
27	UBM	16-12-19	Residents of vil.Koshki (PK55+00)	Restriction or loss of access	<p>The motorway access to village koshki will be blocked permanently in PK55+20, CL#202, 0+390, but an alternative access can be given through the connection made by the secondary road for village Koshki in PK57+00, CL#202, 0+190.</p> <p>On 12.02.2021 the local residents stated that the motorway access of settlement Koshki falls within RoW and they are concerned as the motorway access may be blocked permanently.</p> <p>Besides, they stated that it is almost impossible to access in the settlement with a vehicle by this time and they demand to recover the</p>	<p>On 23.12.2019 Engineer sent a letter (N0483) to Contractor for necessary investigations and actions;</p> <p>On 03.04.2020 Engineer instructed Contractor to arrange alternative motorway access to village Koshki before blocking the existing motorway access (Engineer's Letter N 0692);</p> <p>On 03.04.2020 Engineer sent a letter (N0693) to RD that the existing motorway access to village Koshki is not blocked, and residents can pass through the construction area. Whereas, after the completion of construction works, residents will have alternative motorway access;</p> <p>On 12.02.2021 the Engineer and the Contractor received the joint complaint through the Employer's letter (N 2-05/1641);</p> <p>On 16.02.2021 the site inspection was implemented and revealed that the motorway access is diverted temporarily and now it follows through the construction site at Interchange #1. The junction between the construction site and the mentioned access is muddy;</p> <p>On 24.02.2021 the Contractor was informed that the existing motorway of Koshki is the only motorway access for the settlement. Therefore, the Contractor was instructed to start the construction of the local road (located at Interchange #1, CL#202, 0+190) provided within the Project, which shall be connected with the existing motorway access of the settlement Koshki. Besides, it was instructed to improve the condition of the diverted motorway access at Interchange #1 (CL#202, from 0+190 to 0+400) with putting gravel, as soon as possible, and maintain it functional, (especially during the night time) before the construction of the</p>	Forwarded to CC	Open

					<p>above-mentioned motorway access (N 2-05/1641).</p> <p>alternative access is completed (1515-CKUSE60-UBM-GE);</p> <p>On 26.02.2021 the Employer was informed regarding the findings of the site inspection. Also, it was informed that the Contractor was instructed to start construction of the designed local road of the settlement Koshki and to ensure the proper functioning of the existing motorway before the completion of this construction (1519-CKUSE60-UBM-GE);</p> <p>On 15.03.2021 the Contractor was requested by the Employer to provide a temporary access for the settlement Koshki and at the same time, to start construction of the local road provided in the project, in purpose to provide smooth and safe movement in the future (N 2-05/3544);</p> <p>On 24.03.2021 the Contractor was instructed to share an action plan and timetable for the construction of the aforementioned local road leading to settlement Koshki at its earliest (1575-CKUSE60-UBM-GE);</p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p>		
28	UBM	15-01-20	Vera Tabunidze Boriti (PK107+00)	Damage to Infrastructure / Assets	<p>She stated that her family uses drinkable groundwater, and due blasting of Tunnel N10 quantity of spring water is reduced.</p> <p>(C/N 36.03.40.057)</p> <p>On 27.01.2020 Engineer instructed Contractor (Engineer's Letter N0579) to implement routine monitoring of spring water quantity and to take necessary measures in case of reduction in the water supply (in compliance of approved TS);</p> <p>On 02.03.2020 Engineer instructed the Contractor (Engineer Letter N0618) to implement essential mitigation measurements and routine vibration monitoring for settlement vicinity of TUN N10 and submit official results to Engineer weekly basis;</p> <p>On 06.03.2020 Engineer instructed the Contractor (Engineer's Letter N0635) to implement routine spring/groundwater monitoring in the vicinity of the Tunnel N10;</p>	Forwarded to CC	Open

					<p>On 11.03.2020 Engineer once again instructed Contractor (Engineer Letter N0641) to implement routine blasting vibration monitoring for settlement vicinity of TUN N10 and submit official results to Engineer weekly basis;</p> <p>On 12.03.2020 Engineer once again instructed the Contractor (Engineer's Letter N0644) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 17.03.2020 Engineer received blasting vibration monitoring results of some residential houses vicinity of TUN N10 (period 03.03.2020-13.03.2020) from the Contractor (letter N20200317-2);</p> <p>On 26.03.2020 Engineer once again remind the Contractor (Engineer's Letter N0675) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 08.04.2020 Engineer instructed the Contractor that when operating close to the sensitive area (within 250 meters) such as residential, nursery, or medical facilities, the Contractor's hours of working shall be limited to 8 AM to 6 MP (Engineer's letter N0722);</p> <p>On 17.04.2020 Engineer once again instructed the Contractor to ensure routine blasting vibration monitoring for each house location within 300 meters of the blasting site as well as groundwater fluctuation monitoring and submit results to Engineer on weekly bases (Engineer's letter 0742);</p> <p><u>On 28.04.2020, the Engineer received the Contractor's response letter (N20200428-1) that building tapes are being purchased for further crack marking and survey of buildings/structures. Also, Guarantee Letter was attached as the agreement regarding groundwater source, but it has not any judicial power as the Contractor does not sign it and have many other considerable deficiencies;</u></p>		
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					<p>On 05.05.2020 and 15.06.2020 Engineer once again reminded the Contractor to implement necessary monitoring and survey as it was instructed and submit results to Engineer on a weekly bases (Engineer's letters N 0796 & N 0916);</p> <p>On 08.09.2020 joint inspection was implemented by the Engineer and the Contractor and found out that the well is dried;</p> <p>On 18.09.2020 the Contractor was instructed through the formal letter (1123-CKUSE60-UBM-GE) to follow Environmental Mitigation and Management Measures (Appendix X of TS) and provide alternative drinkable water supply to the affected residents, this may include, for example, increasing the depth of their wells, or piped water from another location;</p> <p>On 21.09.2020 and 05.10.2020 the Contractor was reminded within Social Meeting to provide alternative drinkable water supply to the affected residents, this may include, for example, increasing the depth of their wells, or piped water from another location (1262-CKUSE60-UBM-GE);</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the</p>		
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					<p>Employer for their further review (1407-CKUSE60-UBM-GE);</p> <p>On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);</p> <p>On 19.02.2021 the Contractor was reminded once again to follow Appendix X of Technical Specifications and provide an alternative drinkable water source to the above-mentioned affected persons as soon as possible. The groundwater standards must be respected as per Section D.5.3 of the Project EIA. Finally, the Contractor shall provide consensual agreement signed by the both parties (1507-CKUSE60-UBM-GE);</p> <p>On 06.03.2021 the Employer was informed directly that, despite the Engineer's numerous instructions through the above formal letters and within the weekly Social meetings, neither groundwater level monitoring nor remedial actions was implemented for the above-mentioned dried up wells (1539-CKUSE60-UBM-GE);</p> <p>On 06.03.2021 the Employer was informed directly that, despite the Engineer's numerous instructions through the above formal letters and within the weekly Social meetings, neither groundwater level monitoring nor remedial actions was implemented for the above-mentioned dried up wells (1539-CKUSE60-UBM-GE);</p> <p>On 15.03.2021 the Contractor was requested by the Employer to follow the Engineer's instruction and implement corrective actions, as soon as possible. Otherwise, full responsibility will be on the Contractor (N 2-05/3548);</p> <p>On 24.03.2021 the Engineer forwarded the Employer's above-mentioned instruction to the Contractor (1576-CKUSE60-UBM-GE);</p> <p>On 24.03.2021 the Contractor stated through the letter (HNRB/G/F2/E/20210324-1) as</p>	
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					<p>follows: ``The Contractor found another water source, but the complainant Vera Tabunidze said that there was a problem with the water quality of this water source. Then the Contractor found a third-party testing agency to test the water source. The test results show it is drinkable without any problem. Then the Engineer and the Contractor brought the inspection report to explain the situation to the complainant, but the complainant rejected the Contractor's plan on the grounds that the water from this source was not cold in summer. The Contractor is willing to actively cooperate. However, the Contractor will not accept the unreasonable request of the complainant.`` The testing results of the water source was attached;</p> <p>On 21.05.2021 the Contractor was replied through the formal letter (1726-CKUSE60-UBM-GE) as follows: "According to Safeguard Requirements (Appendix 2) of ADB SPS 2009: If potential adverse economic, social, or environmental impacts from project activities other than land acquisition (including involuntary restrictions on land use, or on access to legally designated parks and protected areas) are identified, such as loss of access to assets or resources or restrictions on land use, they will be avoided, or at least minimized, mitigated, or compensated for, through the environmental assessment process. If these impacts are found to be significantly adverse at any stage of the project, the borrower/client will be required to develop and implement a management plan to restore the livelihood of affected persons to at least pre-project level or better. According to Article 4.13 of PCC: The Contractor shall comply with (a) the measures and requirements relevant to the Contractor set forth in the Land Acquisition and Resettlement Plan to the extent it concerns impacts on the affected people during construction; and (b) any corrective measures or preventive actions set out in safeguard monitoring reports that the Employer will prepare from time to time to monitor</p>		
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						<p>implementation of the resettlement plan. The Contractor shall allocate a budget for compliance with these measures, requirements, and actions. According to Appendix X of Technical Specifications: - Routine monitoring of groundwater levels in groundwater wells in the Project area will be undertaken on a weekly basis by the Contractor within the vicinity of each tunnel he is excavating, in line with his groundwater management plan. The monitoring shall continue for a two month period after the tunnel is sealed. If drawdown levels in wells are significant the Contractor will provide a temporary source of potable water to the affected persons until the groundwater levels are recharged. - Monitoring shall continue for a two month period after the completion of the tunnels. If the wells fail to re-charge, new boreholes will be constructed for affected persons. Eventually, the Contractor is instructed to comply the above obligations and requirements and provide at least pre-project or better quality drinking water to the aforementioned affected persons, as soon as possible. Finally, provide consensual agreement signed by the both parties and submit to the Engineer. Otherwise, only the Contractor will be responsible for any negative consequences.”</p>		
29	RD	03-02-20	Avtandil Bliadze Khunevi (PK47+00)	Damage to Infrastructure / Assets	<p>He stated that the Contractor uses the part from his own land plots (C/N 36.08.35.275, 36.08.35.451) without his permission.</p>	<p>On 03.02.2020 Engineer received Mr Avtandil's complaint through RD (RD's letter N 2-12/1326);</p> <p>On 18.02.2020 <u>survey was implemented by the Contractor, and as a result, it's turned out that the Contractor did not use the land plot (C/N 36.08.35.451), but the Contractor excavates part (approx. 70 sq.m) from another land plot (C/N 36.08.35.275) which falls in ROW;</u></p> <p>On 25.02.2020, <u>a representative of RD was informed via phone call that approx. 70 sq.m from the land plot (C/N 36.08.35.275) is in ROW;</u></p> <p>On 28.02.2020, <u>Mr Avatandil was notified via phone call about the results of the survey;</u></p>	Accepted 30-10-20	Closed

						<p>On 21.07.2020, <u>RD was informed (0987-CKUSE60-UBM-GE) that the approx. 70 sq.m from the land plot (C/N 36.08.35.275) falls in ROW and needs to be acquired.</u></p> <p>On 30.10.2020 the land acquisition process was completed;</p>		
30	UBM	04-02-20	Kristina Barbakadze Boriti (PK105+00)	Damage to Infrastructure / Assets	<p>She stated that her family uses drinkable ground water and due to blasting of Tunnel N10 quantity of spring water is reduced. (C/N 36.03.40.058)</p>	<p>On 18.02.2020 Engineer sent the letter (N0598) to the Contractor to implement the routine vibration and spring water monitoring and survey Mrs Kristina's house technical conditions (in compliance of TS);</p> <p>On 20.02.2020 Engineer received feedback (N20200220-1) from the Contractor with content that during a meeting with the landlord on 20th February, the complainant responded to the Contractor that the current water supply was not affected, but the complainant was worried that the water supply might be involved in future due blasting vibration;</p> <p>On 02.03.2020 Engineer instructed the Contractor (Engineer Letter N0618) to implement necessary mitigation measurements and routine vibration monitoring for settlement vicinity of TUN N10 and submit official results to Engineer weekly basis;</p> <p>On 06.03.2020 Engineer instructed the Contractor (Engineer's Letter N0635) to implement routine spring/groundwater monitoring in the vicinity of the Tunnel N10;</p> <p>On 11.03.2020 Engineer once again instructed Contractor (Engineer Letter N0641) to implement routine vibration monitoring for settlement vicinity of TUN N10 and submit official results to Engineer weekly basis;</p> <p>On 12.03.2020 Engineer once again instructed the Contractor (Engineer's Letter N0644) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 17.03.2020 Engineer received blasting vibration monitoring results of some residential</p>	Forwarded to CC	Open

					<p>houses vicinity of TUN N10 (period 03.03.2020-13.03.2020) from the Contractor (letter N20200317-2);</p> <p>On 26.03.2020 Engineer once again remind the Contractor (Engineer's Letter N0675) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 08.04.2020 Engineer instructed the Contractor that when operating close to the sensitive area (within 250 meters) such as residential, nursery, or medical facilities, the Contractor's hours of working shall be limited to 8 AM to 6 MP (Engineer's letter N0722);</p> <p>On 17.04.2020 Engineer once again instructed the Contractor to ensure routine blasting vibration monitoring for each house location within 300 meters of blasting place as well as groundwater fluctuation monitoring and submit results to the Engineer on weekly bases (Engineer's letter 0742);</p> <p><u>On 28.04.2020, the Engineer received the Contractor's response letter (N20200428-1) that building tapes are being purchased for further crack marking and survey of buildings/structures. Also, Guarantee Letter was attached as the agreement regarding groundwater source, but it has not any judicial power as the Contractor does not sign it and have many other considerable deficiencies;</u></p> <p>On 05.05.2020 and 15.06.2020 Engineer once again reminded the Contractor to implement necessary monitoring and survey as it was instructed and submit results to Engineer on a weekly bases (Engineer's letters N 0796 & N 0916);</p> <p>On 08.09.2020 joint inspection was implemented by the Engineer and the Contractor and found out that the well is dried;</p> <p>On 18.09.2020 the Contractor was instructed through the formal letter (1123-CKUSE60-UBM-GE) to follow Environmental Mitigation and</p>	
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					<p>Management Measures (Appendix X of TS) and provide alternative drinkable water supply to the affected residents, this may include, for example, increasing the depth of their wells, or piped water from another location;</p> <p>On 21.09.2020 and 05.10.2020 the Contractor was reminded within Social Meeting to provide alternative drinkable water supply to the affected residents, this may include, for example, increasing the depth of their wells, or piped water from another location (1262-CKUSE60-UBM-GE);</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p> <p>On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);</p> <p>On 19.02.2021 the Contractor was reminded once again to follow Appendix X of Technical Specifications and provide an alternative drinkable water source to the above-mentioned affected persons as soon as possible. The groundwater standards must be respected as per Section D.5.3 of the Project EIA. Finally, the Contractor shall provide consensual agreement signed by the both parties (1507-CKUSE60-UBM-GE);</p> <p>On 06.03.2021 the Employer was informed directly that, despite the Engineer's numerous instructions through the above formal letters and within the weekly Social meetings, neither groundwater level monitoring nor remedial actions was implemented for the above-</p>		
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					<p>mentioned dried up wells (1539-CKUSE60-UBM-GE);</p> <p>On 06.03.2021 the Employer was informed directly that, despite the Engineer's numerous instructions through the above formal letters and within the weekly Social meetings, neither groundwater level monitoring nor remedial actions was implemented for the above-mentioned dried up wells (1539-CKUSE60-UBM-GE);</p> <p>On 15.03.2021 the Contractor was requested by the Employer to follow the Engineer's instruction and implement corrective actions, as soon as possible. Otherwise, full responsibility will be on the Contractor (N 2-05/3548);</p> <p>On 24.03.2021 the Engineer forwarded the Employer's above-mentioned instruction to the Contractor (1576-CKUSE60-UBM-GE);</p> <p>On 24.03.2021 the Contractor stated through the letter (HNRB/G/F2/E/20210324-1) as follows: ``The Contractor found another water source, but the complainant Vera Tabunidze said that there was a problem with the water quality of this water source. Then the Contractor found a third-party testing agency to test the water source. The test results show it is drinkable without any problem. Then the Engineer and the Contractor brought the inspection report to explain the situation to the complainant, but the complainant rejected the Contractor's plan on the grounds that the water from this source was not cold in summer. The Contractor is willing to actively cooperate. However, the Contractor will not accept the unreasonable request of the complainant.`` The testing results of the water source was attached;</p> <p>On 21.05.2021 the Contractor was replied through the formal letter (1726-CKUSE60-UBM-GE) as follows: "According to Safeguard Requirements (Appendix 2) of ADB SPS 2009: If potential adverse economic, social, or environmental impacts from project activities</p>		
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					<p>other than land acquisition (including involuntary restrictions on land use, or on access to legally designated parks and protected areas) are identified, such as loss of access to assets or resources or restrictions on land use, they will be avoided, or at least minimized, mitigated, or compensated for, through the environmental assessment process. If these impacts are found to be significantly adverse at any stage of the project, the borrower/client will be required to develop and implement a management plan to restore the livelihood of affected persons to at least pre-project level or better. According to Article 4.13 of PCC: The Contractor shall comply with (a) the measures and requirements relevant to the Contractor set forth in the Land Acquisition and Resettlement Plan to the extent it concerns impacts on the affected people during construction; and (b) any corrective measures or preventive actions set out in safeguard monitoring reports that the Employer will prepare from time to time to monitor implementation of the resettlement plan. The Contractor shall allocate a budget for compliance with these measures, requirements, and actions. According to Appendix X of Technical Specifications: - Routine monitoring of groundwater levels in groundwater wells in the Project area will be undertaken on a weekly basis by the Contractor within the vicinity of each tunnel he is excavating, in line with his groundwater management plan. The monitoring shall continue for a two month period after the tunnel is sealed. If drawdown levels in wells are significant the Contractor will provide a temporary source of potable water to the affected persons until the groundwater levels are recharged. - Monitoring shall continue for a two month period after the completion of the tunnels. If the wells fail to re-charge, new boreholes will be constructed for affected persons. Eventually, the Contractor is instructed to comply the above obligations and requirements and provide at least pre-project or</p>		
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						better quality drinking water to the aforementioned affected persons, as soon as possible. Finally, provide consensual agreement signed by the both parties and submit to the Engineer. Otherwise, only the Contractor will be responsible for any negative consequences.”		
3 1	UB M	17-02- 20	Nora Gelashvili Boriti (PK105+0 0)	Damag e to Infrastr ucture / Assets	She stated that her family is disturbed with blasting vibration during construction works and the baseline information is missing for her house prior to the initiation of blasting activities. (C/N 36.03.39.077)	<p>On 18.02.2020 Engineer sent the letter (N0597) to the Contractor to implement the necessary survey for potentially affected properties (in compliance of approved TS) with an attached list of potentially affected properties;</p> <p>On 02.03.2020 Engineer instructed the Contractor (Engineer Letter N0618) to implement necessary mitigation measurements and routine vibration monitoring for settlement vicinity of TUN N10 and submit official results to Engineer weekly basis;</p> <p>On 03.03.2020 Engineer instructed the Contractor (Engineer Letter N0620) to fix and describe the technical conditions of Mrs Nora's house and submit results to Engineer;</p> <p>On 06.03.2020 Engineer instructed the Contractor (Engineer's Letter N0635) to implement routine spring/groundwater monitoring in the vicinity of the Tunnel N10;</p> <p>On 11.03.2020 Engineer once again instructed Contractor (Engineer Letter N0641) to implement routine vibration monitoring for settlement vicinity of TUN N10 and submit official results to the Engineer weekly;</p> <p>On 12.03.2020 Engineer once again instructed the Contractor (Engineer's Letter N0644) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 17.03.2020 Engineer received blasting vibration monitoring results of some residential houses vicinity of TUN N10 (period 03.03.2020-13.03.2020) from the Contractor (letter N20200317-2);</p>	Accept ed 03-12- 20	Close d

					<p>On 26.03.2020 Engineer once again remind the Contractor (Engineer's Letter N0675) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 08.04.2020 Engineer instructed the Contractor that when operating close to the sensitive area (within 250 meters) such as residential, nursery, or medical facilities, the Contractor's hours of working shall be limited to 8 AM to 6 MP (Engineer's letter N0722);</p> <p>On 17.04.2020 Engineer once again instructed the Contractor to ensure routine blasting vibration monitoring for each house location within 300 meters of the blasting site as well as groundwater fluctuation monitoring and submit results to Engineer on weekly bases (Engineer's letter 0742);</p> <p>On 28.04.2020 Engineer received the Contractor's response letter (N20200428-1) that building tapes are being purchased for further crack marking and survey of buildings/structures;</p> <p>On 05.05.2020 and 15.06.2020 Engineer once again reminded the Contractor to implement necessary monitorings and survey as it was instructed and submit results to Engineer on a weekly bases (Engineer's letters N 0796 & N 0916);</p> <p>On 03.09.2020, <u>the technical condition of Mrs Nora's house was inspected and described by the third part company ``Gama Consulting``</u>;</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the Employer for their further review (1407-CKUSE60-UBM-GE);</p>	
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						On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);		
3 2	UB M	01-04- 20	Tamazi Grigalash vili Grigalati (PK14+50)	Damag e to Infrastr ucture / Assets	Approx. 200 sq.m from the agricultural land plot (C/C 36.05.34.526) is collapsed due to the collapse of the west portal of Tunnel N2.	<p>On 17.04.2020 Engineer instructed the Contractor to negotiate with the landowner to settle down this matter, provide a copy of the consensus developed between both parties. In case of non-consensus, the Contractor was instructed to share its feedback on the technical ground along with a copy of losses assessment and time of possession of the land plot and copy must be shared with the Engineer (Engineer's letter N0742);</p> <p>On 05.05.2020, Engineer once again reminded the Contractor to investigate complaints on technical bases and provide a consensus signed by both parties. In the case of non-consensus Contractor was instructed to share its feedback on the technical ground along with the estimation losses assessment and time of possession of the land plot (Engineer's letter N 0796);</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020 & 02.06.2020 Contractor was reminded to implement necessary action for to settle down the matter (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 15.06.2020 Contractor was once again reminded to implement necessary actions to resolve the complaint (Engineer's letter N 0916);</p> <p>On 27.08.2020, the Engineer received the complaint letter through RD (the letter N 2-05/9401);</p> <p>On 09.09.2020 the Contractor was instructed to investigate the matter on a technical basis with the supervision of the Engineer and submit the report to the Engineer at its earliest (1108-CKUSE60-UBM-GE);</p> <p>On 21.09.2020, 05.10.2020 & 23.11.2020 the Contractor was reminded within Social Meeting</p>	Forwar ded to CC	Open

						<p>to investigate the matter on a technical basis with the supervision of the Engineer and submit the report to the Engineer at its earliest (1262-CKUSE60-UBM-GE - dated: 22.10.2020 and 1405-CKUSE60-UBM-GE - dated: 24.12.2020);</p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p> <p>On 09.06.2021 the Employer was informed through the formal letter (1750-CKUSE60-UBM-GE), that during the arranging the west portal of Tunnel N2 within the RoW, the slope along with the parts of the mentioned agricultural plots were collapsed. In particular: approx. 200 sq.m - from the total area (1563 sq.m) of the land plot. Also, it was informed, that the Contractor submitted proposal on the measures to be taken to restore the slope. But, the proposal was disapproved with the relevant comments for the Contractor's consideration and resubmission;</p> <p>On 14.06.2021 the Contractor was replied with the formal letter (1762-CKUSE60-UBM-GE) in reference to the Contractor's letter (HNRB/G/F2/E/ 20210507-1) and reminded to revise the shop drawing of TUN-2002-AT-REV0 with consideration of the Engineer's comments submitted with the formal letter (1743-CKUSE60-UBM-GE dated: 03.06.2021) and re-submit again, in order to restore the west slope of TUN-2002 along with the collapsed part of the private agricultural land plot, which was located on it;</p>		
33	UBM	06-04-20	Andro Tsikarishvili Sakasria (PK92+00)	Damag e to Infrastr ucture / Assets	<p>He stated that the land plot (C/N 36.03.37.473) is excavated, and the Contractor removes vegetation.</p>	<p><u>On 07.04.2020, a joint investigation was implemented, and as a result, it found out that approx. 1300 sq.m of the land plot is excavated, and vegetation is removed:</u></p> <p>On 08.04.2020 Engineer instructed the Contractor to start negotiation with the complainant to settle the matter and come up</p>	Accepted 01-07-2020	Closed

						<p>with a signed agreement (Engineer's Letter N 0717);</p> <p>On 17.04.2020 Engineer reminded the Contractor to negotiate with the landowner to settle down this matter, provide a copy of the consensus developed between both parties. In the case of non-consensus, the Contractor was instructed to share its feedback on the technical ground along with a copy of losses assessment and time of possession of the land plot. The document must be shared with the Engineer (Engineer's letter N0742);</p> <p>On 05.05.2020, Engineer once again reminded the Contractor (through the letter N 0796) to formally communicate the results with the complainant for his satisfaction or provide a consensus signed both parties;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020 & 02.06.2020 Engineer reminded the Contractor to negotiate with the landowner to settle down this matter, give a copy of the consensus developed between both parties. In the case of non-consensus, the Contractor was instructed to share its feedback on the technical ground along with a copy of losses assessment and time of possession of the land plot. The document must be shared with the Engineer (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 15.06.2020 Contractor was once again reminded to implement necessary actions to resolve the complaint (Engineer's letter N 0916);</p> <p>On 07.07.2020, <u>the Engineer received the signed Agreement on one-time compensation for losses (HNRB/G/F2/E/ 20200707-3);</u></p> <p>On 21.07.2020, <u>the Engineer send a letter (0990-CKUSE60-UBM-GE) to RD with the attached signed agreement between both parties;</u></p>		
34	UBM	06-04-20	Eldari Golubiani	Damage to Infrastr		<p>On 11.03.2020 Engineer once again instructed Contractor (Engineer Letter N0641) to implement routine vibration monitoring for</p>	Accepted	Closed

			<p>Boriti (PK105+00)</p>	<p>structure / Assets</p> <ul style="list-style-type: none"> Resident is disturbed with blasting vibration that has an impact on her sole drinkable groundwater as well. The baseline information is missing for the house of Mr Eldari before the initiation of blasting activities <p>(C/N 36.03.39.048)</p>	<p>settlement vicinity of TUN N10 and submit official results to the Engineer weekly;</p> <p>On 12.03.2020 Engineer once again instructed the Contractor (Engineer's Letter N0644) to implement the necessary survey for potentially affected properties (in compliance of approved TS);</p> <p>On 08.04.2020 Engineer instructed the Contractor that when operating close to the sensitive area (within 250 meters) such as residential, nursery, or medical facilities, the Contractor's hours of working shall be limited to 8 AM to 6 MP (Engineer's letter N0722);</p> <p>On 17.04.2020 Engineer once again instructed the Contractor to ensure routine blasting vibration monitoring for each house location within 300 meters of the blasting site as well as groundwater fluctuation monitoring and submit results to Engineer on weekly bases (Engineer's letter N0742);</p> <p>On 28.04.2020 Engineer received the Contractor's response letter (N20200428-1) that building tapes are being purchased for further crack marking and survey of buildings/structures;</p> <p>On 05.05.2020 and 15.06.2020 Engineer once again reminded the Contractor to implement necessary monitoring and survey as it was instructed and submit results to Engineer on a weekly bases (Engineer's letters N 0796 & N 0916);</p> <p>On 03.09.2020, the technical condition of Mr Eldari's house was inspected and described by the third part company ``Gama Consulting``;</p> <p>On 03.12.2020 the Contractor submitted the documents of technical inspection report of 16 private buildings, which are provided by the third-party company Gamma Consulting LTD (I/C 404889714) (HNRB/G/F2/E/20201203-1);</p> <p>On 24.12.2020 the technical inspection report of 16 private buildings was submitted to the</p>	<p>03-12-20</p>	
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						Employer for their further review (1407-CKUSE60-UBM-GE); On 11.01.2021 the Employer replied to the Engineer that evaluating the quality of work performed by Gamma Consulting LTD is beyond his competence (N 2-12/199);		
35	UBM	08-04-20	Gocha Tsikarishvili Sakasria (PK99+50)	Restriction or loss of access	Mr Gocha is complaining that the access roads to his agricultural land plots (C/N 36.03.37.499; 36.03.36.070) are restricted due to construction activities. It is due to that he is affected by the losses for not taking care of the agriculture field. Also, he stated that the Contractor's Camp occupies the part of his land plot (C/N 36.03.36.070) without his permission.	On 17.04.2020 Engineer instructed the Contractor to negotiate with the landowner to settle down this matter. In the case of non-consensus Contractor was required to share its feedback on the technical ground along with the copy of losses assessment and time of possession of the land plot (Engineer's letter N0742); On 05.05.2020, Engineer reminded Contractor (through the letter N 0796) to formally share the results with the complainant for his satisfaction (copied to Engineer) or provide a consensus signed both parties as it was instructed; On 11.05.2020, 18.05.2020, 26.05.2020, 02.06.2020 & 29.06.2020 Contractor was reminded to investigate the complaint on technical bases and negotiate with the complainant for settle down the issue. In case of non-consensus, the Contractor was required to share its feedback on the technical ground along with the copy of the losses assessment as well as a time of restriction of the access road and possession of land plot (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020); On 30.07.2020, <u>the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20200730-1) with the attached signed Lease Agreement on a Plot of Land between the parties;</u> On 07.08.2020, <u>the Engineer sent the letter (1034-CKUSE60-UBM-GE) to RD with the attached signed agreements by both parties.</u>	Accepted 27-07-20	Closed
36	UBM	07-04-20	Gela Grigalashvili	Inclusion in LARP	• Mr Gela's family is disturbed being having the house 90 meters from	On 08.04.2020 Engineer instructed Contractor to temporarily shift Mr Gela's family to the alternative residential area as noncompliance	Forwarded to RD	Open

			Grigalati (PK7+00)	<p>the work station at Batching Plant N1;</p> <p>(C/N 36.05.31.176).</p> <ul style="list-style-type: none"> The family verbally stated that they would be disturbed permanently with dust, noise, emission, and vibration caused by the passing of vehicles at the exploitation stage and demand inclusion in LARP. 	<p>was observed that when operating close to sensitive areas (250 meters) such as residential, nursery and medical facilities, the Contractor hours of working shall be limited to 8 AM to 6 PM, however in case of the complainant, his house is situated at a distance of 90 meters, and Contractor operates during night time (Engineer's Letter N 0716);</p> <p>On 17.04.2020 Engineer reminded Contractor (through Engineer's letter N 0742) to observe working hours (between 8 AM and 6 PM) as per approved TS or negotiate with the complainant for temporary shifting to an alternative place until the completion of construction works;</p> <p>On 05.05.2020 Engineer once again reminded Contractor (through the letter N 0796) to observe working hours (between 8 AM and 6 PM) as per approved TS or negotiate with the complainant for temporary shifting to an alternative place until the completion of construction works;</p> <p>On 07.05.2020 Engineer received the statement (through RD's letter N 2-12/4810) of Mr Gela's family;</p> <p>On 11.05.2020, 18.05.2020 & 26.05.2020 Contractor was reminded to observe working hours (between 8 AM and 6 PM) as per approved TS or negotiate with the complainant for temporary shifting to an alternative place until the completion of construction works (Engineer's letters N0866 & N0867 Dated: 21.05.2020; N0892 Dated: 05.06.2020);</p> <p>On 27.05.2020 Engineer received the signed agreement (through the letter 20200527-1) that could not contain the substantive information like the purpose, period and mode of compensation, taxpayer party and signature of required family members etc. Therefore, the Engineer advised the Contractor during weekly held on June 2, 2020, to resolve this issue (Engineer's letter N0892 Dated: 05.06.2020; Minutes of Meeting No 159);</p>		
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					<p>On 06.06.2020, <u>RD was informed that the Contractor reached an agreement (regarding compensation payment for temporary shifting to an alternative residential area) with the family. Still, the signed agreement could not contain the abovementioned substantive information. Also, further investigation was recommended to determine a level of impact on the residential house of the family at the exploitation stage as the distance between the edge of the Project local road and the residential house is approx. 7 meters (Engineer's letter N 0901);</u></p> <p>On 16.06.2020 and 24.06.2020 the Contractor was instructed within weekly Social meeting to provide proper formal agreement regarding temporary shifting of the family to an alternative residential area and submit to Engineer (Engineer's letter N 0916);</p> <p>On 22.06.2020 Engineer received signed agreement (through the letter N 20200622-1) regarding that the family will receive monthly compensation (starting from May 1, 2020, including May 1, 2021) for to rent the alternative residential place, but the agreement still could not specify the terms of further extension or termination of the contract. Accordingly, the Contractor was instructed within the weekly Social meeting to provide proper formal agreement;</p> <p>On 07.07.2020 Engineer received a newly signed agreement through the Contractor's letter (HNRB/G/F2/E/ 20200707-3);</p> <p>On 14.04.2021 the Employer requested to investigate how it is possible to construct the Local Road N1 without impact on the homestead land plot of Mr. Budu Grigalashvili (N 2-12/5615);</p> <p>On 07.05.2021 the Contractor was reminded through the formal letter (1686-CKUSE60-UBM-GE) to investigate the matter under the inspection of the Engineer to prepare relevant</p>		
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						<p>proposal for the Employer and submit to the Engineer's review, as soon as possible;</p> <p>On 14.06.2021 the Contactor was reminded once again to investigate the matter under the inspection of the Engineer to prepare a relevant proposal for the Employer and submit it for the Engineer's review (1759-CKUSE60-UBM-GE);</p> <p>On 30.06.2021 the Employer reminded the Engineer to study the issue of possible impact to the part of the mentioned homestead land plot by the Local Road N1 and inform him about the Engineer's position (N 2-08/10485);</p> <p>On 06.07.2021 the Employer was informed with the formal letter (1808-CKUSE60-UBM-GE) that the Contractor was instructed through three formal letters to investigate the matter and prepare a relevant proposal for the Engineer's review, but the Contractor wasn't intended to follow the Engineer's mentioned instructions;</p>		
37	RD	03-04-20	Teimuraz Grigalashvili Grigalati (PK8+50)	Damage to Infrastructure / Assets	<p>According to a complaint letter received through RD, the Contractor excavated the complainant's land plot (C/N 36.05.34.491) and, as a result, damaged the perennial trees and removed vegetation. Additionally, the Contractor also destroyed his family-owned perennial trees, which was located outside of his land plot and deteriorated the access road to the</p>	<p>On 03.04.2020 Engineer received a complaint letter (N 2-12/4093) through RD;</p> <p>On 08.04.2020 Contractor was advised to make an investigation and address the complaint about the entire satisfaction of the complaint. The settlement must be reflected in the form of a signed agreement by both parties (Engineer's letter N 0721);</p> <p>On 13.04.2020 Contractor denied any loss to complainant's land and trees through the letter N20200413-1;</p> <p>On 24.04.2020 Engineer once again instructed Contractor to reinvestigate the complaint on a technical basis and develop the consensus, also submit a copy of professional investigations, signed agreement and another relevant document/pictures/layout plan to Engineer (Engineer's letter N 0752);</p> <p>On 05.05.2020, Engineer once again reminded the Contractor (through the letter N 0796) to reinvestigate the complaint on technical bases and develop the consensus with the</p>	Accepted 23-07-20	Closed

					<p>abovementioned land plot without his permission.</p> <p>complainant. In case of non-consensus Contractor was required to share its feedback on the technical ground along with the estimation of losses and period for the restriction of the access roads (copied to Engineer);</p> <p>On 27.05.2020 Contractor denied any loss to complainant's land and trees through the letter N20200527-1;</p> <p>On 11.05.2020, 18.05.2020, 26.05.2020, 02.06.2020, 08.06.2020 & 16.06.2020 Contractor was reminded to reinvestigate the complaint on technical bases and develop the consensus with the complainant. In case of non-consensus Contractor was required to share its feedback (to the complainant) on the technical ground along with the estimation of losses and time for the restriction of the access roads (Engineer's letters N0866, N0867, N0892, N0916 & N0948);</p> <p>On 22.06.2020 Contractor once again denied any loss to complainant's land and trees through the letter N20200622-1;</p> <p>On 29.06.2020 the Contractor was instructed within a weekly Social meeting that the Contractor have to share its feedback (to the complainant) on the technical ground;</p> <p>On 23.07.2020 <u>the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20200723-6) with the attached signed agreement between the parties;</u></p> <p>On 25.07.2020 <u>the Engineer send a letter (1012-CKUSE60-UBM-GE) to RD with the attached signed agreement between both parties;</u></p>		
38	RD	14-04-20	Anzor Tabatadze	Inclusion in LARP	<p>According to a complaint letter received through RD, the access road to Mr Anzor's house is restricted, and he demands inclusion in LARP.</p> <p>On 14.04.2020 Engineer's social expert received Mr Anzor's complaint through RD's letter (N 2-12/2652 - Dated: 28.02.2020);</p> <p>On 24.04.2020 Engineer responded to RD letter that the access road is not restricted, and the complainant can easily access to the house. Also, an access road to Mr Anzor's house is into consideration of the design of Chumateleti-</p>	Rejected 24-04-20	Closed

					(C/N 36.05.31.341)	Khevi (F1) Section. Hence, he will not be affected in the future as well, and Mr Anzor was informed in this regard (Engineer's letter N 0753);		
39	RD	07-04-20	Vakhtang Bliadze Vertkvichaila (PK68+00)	Restriction or loss of access	Mr Vakhtang demands to shift the existing fence of his house yard (C/N 36.08.32.099) towards the acquired land plot (C/N 36.08.32.150) to widen the access road.	<p>On 06.05.2020 Engineer received Mr Vakhtang's statement through RD's letter (N 2-12/4166 - Dated: 07.04.2020);</p> <p>On 19.05.2020, a joint visit was conducted at the Site by Engineer and Contractor. As a result, it was found that the construction work (within ROW) does not have any impact on the motorway access to the complainant's house yard. However, Mr Vakhtang demands to shift the existing fence of his house yard towards the acquired land plot to widen the access road;</p> <p>On 06.06.2020, RD was informed (through Engineer's letter N 902) that the construction work (within ROW) doesn't have any impact on the motorway access to the complainant's house yard. However, Mr Vakhtang demand to shift the existing fence of his house yard towards the acquired land plot to widen the access road, eventually, that is beyond our scope of services;</p>	Rejected 19-05-20	Closed
40	RD	20-11-20	Imeda Grigalashvili Khevi (PK6+00)	Restriction or loss of access	The motorway access to his family-owned land plot (C/N 36.05.31.784; 36.05.31.786) (where the family is going to construct residential house) is blocked by Contractor due arranged Batching Plant N1 out of ROW on the leased land plots (C/N 36.05.31.739; 36.05.31.738). Also, the	<p>On 06.05.2020, Engineer received Mr Imeda's statement through RD's letter (N 2-05/15739 - Dated: 20.11.2019);</p> <p>On 02.06.2020 Contractor was instructed to arrange motorway access to the abovementioned land plots as it was concluded during a visit at the Site with representatives of RD, Engineer, and Contractor on 6th February 2020 (Engineer's letter N0892-Dated: 05.06.2020; Minutes of Meeting No 159);</p> <p>On 06.06.2020 Contractor was reminded to provide motorway accesses to the abovementioned land plots (Engineer's letter No. 0898);</p> <p>On 06.06.2020, RD was informed regarding Mr Imeda's issue (Engineer's letter N 900);</p> <p>On 24.06.2020 Contractor arranged the motorway accesses to the mentioned land plots.</p>	Accepted 24-06-20	Closed

					<p>motorway access to his residential house (C/N 36.05.31.007) (which is already acquired by RD) is blocked by the Contractor due to an arranged embankment around the residential area, and he is hindered from completing house deconstruction as he cannot transport materials to his family-owned land plot (C/N 36.05.31.784; 36.05.31.786).</p>	<p>(Now awaiting formal agreement regarding complainant's satisfaction signed by both parties);</p> <p>On 07.07.2020 <u>Engineer received the signed Agreement regarding the complainant's satisfaction (HNRB/G/F2/E/ 20200707-3);</u></p> <p>On 21.07.2020, <u>the Engineer send a letter (0991-CKUSE60-UBM-GE) to RD with the attached signed agreement between both parties;</u></p>		
41	UBM	01-06-20	Nani Tsikarishvili Boriti (PK110+00)	Damage to Infrastructure / Assets	<p>Mrs Nani stated that the Contractor excavates the portion of her land plot (C/N 36.03.40.491).</p>	<p>On 02.06.2020 Engineer instructed the Contractor to investigate the complaint and negotiate with the landowner to settle this matter. In case of non-consensus Contractor was required to share its feedback on the technical ground along with the copy of the loss assessment, as well as the time of restriction of the access road and possession of the land plot (Engineer's letter N0892-Dated: 05.06.2020; Minutes of Meeting No 159);</p> <p>On 15.06.2020 Contractor was reminded to implemented necessary actions for to resolve the complaint (Engineer's letter N 0916);</p> <p>On 23.07.2020, <u>the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20200723-6) with the attached signed Lease Agreement on a Plot of Land between the parties;</u></p> <p>On 25.07.2020, <u>the Engineer send a letter (1018-CKUSE60-UBM-GE) to RD with the</u></p>	Accepted 10-07-20	Closed

						<u>attached signed Lease Agreement on a Plot of Land;</u>		
4 2	RD	25-06-20	Mariam Bliadze Vertkvichala (PK71+00)	Damage to Infrastructure / Assets	Mrs Mariam stated that the Contractor violates the borders of her family-owned land plot (C/N 36.08.32.144).	<p>On 25.06.2020 Engineer received Mrs Mariam's statement through RD's letter N 2-12/6490;</p> <p>On 27.06.2020 Contractor was instructed (through the Engineer's letter N 0946) to investigate the basics of a complaint and submit results to Engineer;</p> <p>On 08.07.2020, the Engineer instructed the Contractor within weekly Social meeting to investigate the complaint and negotiate with the landowner to settle this matter. In the case of non-consensus Contractor was required to share its feedback on the technical ground along with the copy of losses assessment, as well as the time of possession of land plot;</p> <p>On 17.08.2020, the Engineer instructed once again the Contractor within Social meeting to investigate the complaint and negotiate with the landowner to settle this matter. In the case of non-consensus Contractor was required to share its feedback on the technical ground along with the copy of losses assessment, as well as the time of possession of land plot (1098-CKUSE60-UBM-GE);</p> <p>On 08.09.2020 the Engineer received the Lease Agreement signed by both parties (HNRB/G/F2/E/ 20200908-2);</p> <p>On 18.09.2020 the Engineer forwarded the Lease Agreement to the Employer (1125-CKUSE60-UBM-GE);</p>	Accepted 26-08-20	Closed
4 3	UBM	03-07-20	Lali Bagashvili Vertkvichala (PK72+00)	Damage to Infrastructure / Assets	She stated that the borders of her land plot (C/N 36.08.32.279) are violated and excavated by the Contractor.	<p>On 08.07.2020, the Engineer instructed the Contractor within weekly Social meeting to investigate the complaint and negotiate with the landowner to settle this matter. In the case of non-consensus Contractor was required to share its feedback on the technical ground along with the copy of losses assessment, as well as the time of possession of land plot;</p> <p>On 23.07.2020, the Engineer received the Contractor's letter (HNRB/G/F2/E/ 20200723-6)</p>	Accepted 10-07-20	Closed

						<p>with the attached signed agreement between the parties, but the agreement is unreadable as the text is pale.</p> <p>On 25.07.2020 the Contractor was required (1019-CKUSE60-UBM-GE) to provide the agreement adequately and submit to the Engineer;</p> <p>On 30.08.2020 the Engineer received the signed Lease Agreement by both parties (HNRB/G/F2/E/ 20200830-2);</p> <p>On 09.09.2020 the Engineer forwarded the Lease Agreement to the Employer (1107-CKUSE60-UBM-GE);</p>		
44	RD	23-07-20	Konstantine Lomidze Khunevi (PK40+00)	Damage to Infrastructure / Assets	<p>He stated that the Contractor, without any permission, arranged a high voltage power transmission line within his land plot (C/N 36.08.34.009)</p>	<p>On 23.07.2020 the Engineer's social specialist received RD's letter (N 2-05/4953 - Dated: 14.05.2020) regarding Citizen Konstantine Lomidze's complaint;</p> <p>On 07.08.2020, the Contractor was instructed (1033-CKUSE60-UBM-GE) to investigate the matter on a technical base and communicate to the complainant to reach on the consensus. In the case of non-consensus, the Contractor has to find an alternative way to manage the power transmission line;</p> <p>On 08.09.2020 the Engineer received the agreement signed by both parties (HNRB/G/F2/E/ 20200908-2);</p> <p>On 18.09.2020 the Engineer forwarded the signed contract to the Employer (1126-CKUSE60-UBM-GE);</p>	Accepted 21-08-20	Closed
45	RD	27-08-20	Ramazi Grigalashvili (PK14+50)	Damage to Infrastructure / Assets	<p>Approx. 850 sq.m from the agricultural land plot (C/C 36.05.34.576) is collapsed due to the collapse of the west portal of Tunnel N2.</p>	<p>On 27.08.2020 the Engineer received the complaint letter (N 2-05/9402) through RD;</p> <p>On 09.09.2020 the Contractor was instructed to investigate the matter on a technical basis with the supervision of the Engineer and submit the report to the Engineer at its earliest (1108-CKUSE60-UBM-GE);</p> <p>On 21.09.2020, 05.10.2020 & 23.11.2020 the Contractor was reminded within Social Meeting to investigate the matter on a technical basis with the supervision of the Engineer and submit the report to the Engineer at its earliest (1262-CKUSE60-UBM-GE - dated: 22.10.2020 and 1405-CKUSE60-UBM-GE - dated: 24.12.2020);</p>	Forwarded to CC	Open

						<p>On 02.03.2021 the complaint letter was received through the Employer's letter (N 2-12/2724) concerning damage to the mentioned land plot;</p> <p>On 11.05.2021 the Employer forwarded Mr. Ramaz Grigalashvili's statement through the formal letter (N 2-08/7180) regarding the same concerns and required to investigate the issue and inform him in this regard;</p> <p>On 04.06.2021 the Employer reminded the Engineer to study the issue and inform him regarding the Engineer's position (N 2-08/8855);</p> <p>On 09.06.2021 the Employer was informed through the formal letter (1750-CKUSE60-UBM-GE), that during the arranging the west portal of Tunnel N2 within the RoW, the slope along with the parts of the mentioned agricultural plots were collapsed. In particular: approx. 850 sq.m - from the total area (1222 sq.m) of the land plot. Also, it was informed, that the Contractor submitted proposal on the measures to be taken to restore the slope. But, the proposal was disapproved with the relevant comments for the Contractor's consideration and resubmission;</p> <p>On 14.06.2021 the Contractor was replied with the formal letter (1762-CKUSE60-UBM-GE) in reference to the Contractor's letter (HNRB/G/F2/E/ 20210507-1) and reminded to revise the shop drawing of TUN-2002-AT-REV0 with consideration of the Engineer's comments submitted with the formal letter (1743-CKUSE60-UBM-GE dated: 03.06.2021) and re-submit again, in order to restore the west slope of TUN-2002 along with the collapsed part of the private agricultural land plot, which was located on it;</p>		
46	UBM	03-08-20	Nato Tsitskishvili (PK54+00)	Damage to Infrastructure / Assets	During the community consultation meeting held on August 3, 2020, Ms Nato expressed that	<p>On 10.08.2020 the Engineer inspected the site and found out that the facts are right and the Contractor was instructed verbally to provide a remedy to solve the problem;</p> <p>On 18.09.2020 the Contractor was reminded (through the letter 1122-CKUSE60-UBM-GE) to</p>	Accepted 12-10-20	Closed

					<p>her house yard is flooded during rain as the underground culvert is blocked due arranged dam along the river Dzirula by the Contractor.</p>	<p>provide remedial actions for to settle down the issue and come up with the signed agreement;</p> <p>On 26.09.2020 the Contractor stated through the formal letter (HNRB/G/F2/E/ 20200926-1) that the complaint has been resolved;</p> <p>On 28.09.2020 the Engineer inspected the Site and found out that the implemented remedial actions don't serve the purpose to resolve the blocked culvert issue;</p> <p>On 02.10.2020 the Contractor was instructed once again to complete corrective actions to resolve the issue and come up with the agreement signed by both parties (1180-CKUSE60-UBM-GE);</p> <p>As of 12.10.2020 the remedial action was finalized by the Contractor and now awaiting formal agreement between the parties, which will be provided after the complainant will check the provided culvert;</p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p>		
4 7	RD	15-09-20	<p>1) Dali Lomidze</p> <p>2) Nineli lomidze</p> <p>3) Natalia Sakhvadze</p> <p>4) Asmat Bladze</p> <p>5) Kakhaber Lomidze</p> <p>6) Lili Lomidze</p> <p>7) Avlet Bladze</p>	Loss of businesses	<p>The residents stated that their business was trading with agricultural products along the existing highway (155.5km) and now they stopped the business activities as the income was decreased due increased traffic and air pollution caused by the</p>	<p>On 15.09.2020 the Engineer received the complaint letter (N 2-12/10032) through RD;</p> <p>On 21.09.2020 the Engineer received the complaint letter (N 2-12/10320) through RD;</p> <p>On 23.09.2020 the meeting was implemented at the site with the applicants to learn the issue;</p> <p>On 07.10.2020, the Employer was informed through the letter (1200-CKUSE60-UBM-GE) that the Contractor has arranged the truck parking and the gas station adjacent to the area where the traders were located. As a result, the frequency of the traffic flow on this section has increased. At the same time, the Contractor's flagmen are operating to mitigate traffic and ensure safety. As well as, the gravel is provided on the surface of the junction and the existing highway is watered regularly. Because of the</p>	Forwarded to RD	Open

			<p>Mob N: 59940694 6; 57762252 9; 59565612 1; 57738351 8; 59942338 1. (PK35+00)</p>		<p>construction works.</p>	<p>above, during the construction process, some hindrance has occurred for the above-mentioned traders. However, the determination, whether the increase in traffic intensity had become a reason for the traders to cease business activities, is beyond the competence of the Engineer. Also, the existing (E60) highway will be blocked permanently by the Project highway in PK25+00 (km 154.3), which will lead to a complete shift of traffic flow on the Project highway. Eventually, the citizens, as mentioned above, will lose the chance to trade at adjacent to the existing highway (km 155.5). Because of all the above, the Employer was recommended that the commission of RD should consider the issue.</p> <p>On 15.10.2020 the Engineer received the complaint letters (N 2-05/11623 and N 2-05/11626) of citizen Lili Lomidze and Avlet Bliadze with the same matter;</p> <p>On 18.11.2020 the Employer was informed through the letter (1319-CKUSE60-UBM-GE) that Ms. Lili and Ms. Avlet have been engaged in the business since long and disturbed alike other traders, which about was already informed with the previous letter on 07.10.2020;</p>		
48	RD	28-09-20	<p>Beka Bliadze Mob N: 59196933 9 (PK63+00)</p>	Damage to Infrastructure / Assets	<p>The Contractor has arranged the spoil disposal site along the river Dzirula (from PK61+00 to PK66+00) outside of RoW (without permission of the relevant authority), which narrowed the river-bed and threatens the private properties located along the river,</p>	<p>On 28.09.2020 the Engineer received the complaint letter (N 2-05/10757) through RD;</p> <p>On 30.09.2020 the meeting was implemented at the site with the complainant and the Contractor for to investigate the complaint matter. As a result, it found out that the river-bed is narrowed with the arranged spoil disposal site along the river Dzirula outside of RoW without permission of the relevant authority;</p> <p>On 14.10.2020 the Contractor was instructed through the formal letter (1230-CKUSE60-UBM-GE) to transport the disposed of materials from the location as mentioned above to the</p>	Accepted 25.06.21	Closed

					<p>including the complainant's land plot (C/N 36.08.32.114) to be flooded during the excessive precipitation.</p> <p>alternative disposal area or arrange shore protection works up to October 31, 2020;</p> <p>On 20.10.2020 the Employer was informed through the formal letter (1258-CKUSE60-UBM-GE) regarding the abovementioned problem;</p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p> <p>On 26.06.2021 the Contractor submitted the signed consensual agreement with the landowners through the formal letter (HNRB/G/F2/E/20210626-2);</p> <p>On 03.07.2021 the Engineer forwarded the formal agreement to the Employer with the formal letter (1797-CKUSE60-UBM-GE);</p>		
49	RD	26-10-20	Zurab Kapanadze (PK48+00)	Damage to Infrastructure / Assets	<p>He stated that there is already caused losses due to flooding of an agricultural land plot (C/N 36.08.33.197 (199; 200)) occurred in last spring, caused by the narrowed river-bed of Dzirula during construction works, which was not compensated by the Contractor. The landowner expects repetition of the losses due to flooding.</p> <p>On 26.10.2020 the Engineer received the complaint letter through the Employer's letter (N 2-05/12038);</p> <p>On 04.11.2020 the site inspection revealed that the Contractor changed the pre-existing river-bed and narrowed as well;</p> <p>On 18.11.2020 the Contractor was instructed to negotiate with the complainant to sort out the matter in the form of a signed agreement (1320-CKUSE60-UBM-GE);</p> <p>On 21.11.2020 the Contractor informed the Engineer that in order to prevent damage to the complainant's property when the river is flooded, the Contractor used gravel to build a fence during construction and the land will not be damaged when the river is flooded (HNRB/G/F2/E/ 20201121-1);</p> <p>On 26.11.2020 the Contractor was reminded to take up the matter with the complainant for the past losses and future possible threats of flooding to the land plot and come up with a signed agreement (1341-CKUSE60-UBM-GE);</p>	Accepted 22.03.21	Closed

						<p>On 19.01.2021 Mr. Zurab logged the complaint to the Engineer that the land plot was again affected owing to the river flood occurred on January 12, 2021;</p> <p>On 27.01.2021 the Contractor was informed regarding the new complaint of Ms. Zurab and it was reminded to take up the matter with the complainant and resolve the issue at its earliest (1468-CKUSE60-UBM-GE);</p> <p>On 24.03.2021 the Contractor informed the Engineer through the letter (HNRB/G/F2/E/20210324-2) that he obtained the complainant's understanding and signed a compensation agreement. The agreement was attached;</p> <p>On 10.04.2021 the Employer was that the parties have reached the formal agreement on the one-time compensation for the losses (1608-CKUSE60-UBM-GE);</p>		
50	RD	27-10-20	The residents of village Vertkvichala represented by Kakhaber Lomidze (PK72+00)	Restriction or loss of access	The residents of the settlement Vertkvila of village Vertkvichala stated that the footway access to the local church and the local cemetery is damaged due construction works of Tunnel N9.	<p>On 27.10.2020 the Engineer received the complaint through the Employer's letter (N 2-05/12073);</p> <p>On 28.10.2020 the site inspection revealed that the footway access is blocked on a permanent base;</p> <p>On 18.11.2020 the Employer was informed through the letter (1322-CKUSE60-UBM-GE) that the blocked footway access cannot be restored unless the arrangement of engineering structures because there exist challenging terrain and weak rocks. Furthermore, the residents are alternatively using the existing motorway access to Church and Cemetery, which should remain functional even after the completion of Project highway;</p>	Forwarded to RD	Open
51	RD	27-10-20	The residents of village Khunevi living vicinity of	Restriction or loss of access	They stated that one of the motorway access to the settlement (near to Tunnel N6) is blocked.	<p>On 27.10.2020 the Engineer received the complaint through the Employer's letter (N 2-05/12074);</p> <p>On 11.11.2020 an investigation at Site revealed that the motorway access was used by the locals to deliver a cargo (firewood, hay and etc.) with</p>	Forwarded to CC	Open

			<p>Tunnel N6 represent ed by Giorgi Lomidze Mob N: 55742992 0, 57114096 4 (PK36+00)</p>	<p>Also, they stated that their concrete tank of drinkable water was damaged owing to the blasting activities carried out by the Contractor at Tunnel N6. The water tank is supplying water to the residents, Khevi public school and kindergarten. Now, due to the occurrence of cracks in the tank, their water supply is disturbed. Besides, the complainants also showed their apprehensions regarding the power transmission line arranged by the Contractor near the settlement is a life risk for the residents. Furthermore, residents' stated that the blasting activities of Tunnel N6 are an emerging threat to their houses.</p>	<p>an off-road truck at their homestead land plots, which is blocked by the carried-out excavation works of the east portal of Tunnel N6;</p> <p>On 18.11.2020 the Contractor was instructed to negotiate with the complainants for the provision of remedial actions to resolve these issues until November 30, 2020 in the form of signing the agreement between both the parties. Also, the Contractor was instructed to conduct the regular monitoring of all buildings/structures fall within the distance of 250 meters from the proximity of the blasting activity and implement necessary measures to minimize the risks of damage in the surrounding residential structures (1321-CKUSE60-UBM-GE);</p> <p>On 23.11.2020 the Contractor stated through the letter (HNRB/G/F2/E/20201123-3) that the pool is cracked due to disrepair for years and it was not caused by the Contractor's blasting vibration. The Contractor will inspect the blasting every week, and the detected data are within a reasonable range. The Contractor is willing to actively cooperate and give some help. In order to avoid the danger of electric shock to surrounding residents, the Contractor has buried the temporary electricity cables. In order to avoid the risk of collapse of residential buildings, the Contractor conducted vibration tasting on blasting every week, the tasting data were within a reasonable range;</p> <p>On 26.11.2020 the Contractor was instructed to investigate the issue along with the Engineer and prepare proposal regarding further remedial actions for the Engineer's approval (1340-CKUSE60-UBM-GE);</p> <p>On 14.12.2020 the Engineer informed the Contractor through the letter (1385-CKUSE60-UBM-GE, in reference of the Contractor's letter HNRB/G/F2/E/20201123-3) that such evidence or verification test has to be done within the written information of the Engineer and to be monitored by the Engineer. Otherwise, such submission can't be accepted as evidence or</p>	
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					<p>verification document. Therefore, the Contractor was instructed to carry out blasting vibration monitoring under the Engineer's inspection. Besides, the Contractor was reminded to negotiate with the complainants for the necessary remedial action to resolve the damaged water tank issue in the form of signed agreement between the both parties and copy to the Engineer ASAP;</p> <p>On 10.04.2021 the Employer was informed that the motorway access for one of the settlement in village Khunevi, which was used to deliver a cargo (building material, firewood, hay and etc.) in the settlement with an off-road truck, is blocked permanently owing to the excavation work carried out within RoW to arrange the east portal of the Tunnel N6, because no alternative (cost-effective) proposal could be found for the slope relocation or reinforcement works. Also, it was informed, that the local residents have the second motorway access to deliver a cargo in the settlement by a truck, which passes through the underpass of the existing Tbilisi-Senaki-Leselidze (E60) road and the river-bed of Dzirula (in parallel of the existing iron bridge arranged for to access only with a light automobile). However, according to the local residents, during plentiful precipitation, when the water level of the river is risen, they are not able to use the second access, so they demanded an alternative access to deliver a cargo. Finally, the Employer was recommended to arrange new bridge for transportation purpose by a truck, in parallel of the above-mentioned iron bridge (1606-CKUSE60-UBM-GE);</p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p> <p>On 11.05.2021 the Employer required through the formal letter (N 2-06/7260) submission of a drawings and estimated costs for the</p>		
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						<p>construction of the alternative access to the settlement, for his approval;</p> <p>On 14.06.2021 the Contractor was instructed to prepare and submit the above required drawings along with the estimated costs as soon as possible, for the Engineer's review and the Employer's approval (1757-CKUSE60-UBM-GE);</p>		
5 2	RD	09-11-20	<p>Giorgi Asanidze</p> <p>Mob N: 599449394 (PK71+00)</p>	Inclusion in LARP	<p>He stated that the ongoing construction works is causing damage to the residential house (C/N 36.08.32.175, C/N 36.08.32.310) and raised threat of landslide. Hence, demand inclusion in LARP.</p> <p>During investigation of the complaint matter it revealed that approx. 150 sq.m of Mr. Giorgi's land plot (C/N 36.08.32.310) is damaged by the Contractor.</p>	<p>On 09.11.2020 the Engineer received the complaint through the Employer's letter (N 2-12/12674);</p> <p>On 26.11.2020 the Contractor was instructed through the letter (1339-CKUSE60-UBM-GE) to initiate the negotiation with the landowner to sort out the matter in the form of a signed agreement;</p> <p>On 26.11.2020 the Employer was informed through the letter (1342-CKUSE60-UBM-GE) that the mentioned house along with the supporting structures present depreciated wooden buildings by passing of years and they are abandoned by the owner, which is evidenced by the carelessness of the yard too. As a result of superficial inspection of the Site no collapsed or slid land was observed. However, according the locals, the area is a landslide zone due to the soft ground rocks, which is further complicated by implemented excavation work for the construction of the Project road;</p> <p>On 25.01.2021 the Engineer received the complaint through the Employer's letter (N 2-12/656) concerning the damaged land plot (C/C 36.08.32.310);</p> <p>On 13.02.2021 the Contractor was reminded through the formal letter (1497-CKUSE60-UBM-GE) to implement corrective measures as soon as possible in purpose to resolve the complaint matter in the form of a signed agreement;</p> <p>On 05.03.2021 the Employer was informed that the portion (approx. 150 sq.m) of the mentioned</p>	Forwarded to RD	Open

						<p>land plot is damaged during the excavation works carried out at the east portal of Tunnel N9, which about the Contractor was time and again informed that the mentioned non-compliance is critical and instructed to implement corrective measures as soon as possible. But, no action is taken from the Engineer's repeated advice (1534-CKUSE60-UBM-GE);</p> <p>On 05.03.2021 the Employer was informed that the portion (approx. 150 sq.m) of the mentioned land plot is damaged during the excavation works carried out at the east portal of Tunnel N9, which about the Contractor was time and again informed that the mentioned non-compliance is critical and instructed to implement corrective measures as soon as possible. But, no action is taken from the Engineer's repeated advice (1534-CKUSE60-UBM-GE);</p> <p>On 12.03.2021 the Contractor was required by the Employer to inform them about a implemented corrective actions (N 2-12/3309);</p> <p>On 24.03.2021 the Engineer forwarded the Employer's above-mentioned instruction to the Contractor (1577-CKUSE60-UBM-GE);</p> <p>On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);</p>		
53	UBM	20-11-20	<p>1) Otar Tsikarishvili ID: 56001019959</p> <p>2) Davit Rusadze</p>	Damage to Infrastructure / Assets	They stated that 7 family living vicinity of Tunnel N9 lost drinkable groundwater	<p>On 30.11.2020 the site inspection revealed that the 4 groundwater collection tanks are dried up;</p> <p>On 14.12.2020 the Contractor was instructed through the formal letter (1384-CKUSE60-UBM-GE) to follow Environmental Mitigation and Management Measures (Appendix X of Technical Specification) and provide an alternative drinkable water source for the abovementioned affected persons ASAP and submit a formal consensual agreement signed by the both parties up to December 25, 2020;</p>	Accepted 21.01.21	Closed

		<p>ID: 56001019 338</p> <p>3) Giuli Rusadze</p> <p>ID: 11001007 726</p> <p>4) Aleksandr e Dekanosid ze</p> <p>ID: 56301026 644</p> <p>5) Murman Tsikarishvi li</p> <p>ID: 56001014 580</p> <p>6) Anzor Rusadze</p> <p>ID: 56001016 497</p> <p>7) Tamaz Tsikarishvi li</p> <p>ID: 60001112 242</p> <p>Mob N: 57101436 5, 59114667 0</p>		<p>On 06.03.2021 the Contractor informed the Engineer regarding the resolved complaint with the attached signed agreement (HNRB/G/F2/E/20210306-1);</p> <p>On 24.03.2021 the Employer was informed that the parties reached an agreement on supply with an alternative source of drinking water. According to the agreement, the Contractor provided the residents with the necessary inventory for arranging the alternative supply and the residents undertake to arrange the alternative supply by themselves. The signed agreement was attached on the Engineer's letter (1587-CKUSE60-UBM-GE);</p>		
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			(PK85+00)					
54	RD	11-12-20	Merab Barbakadze ID: 56001016 201 Mob N: 593990188 (PK121+00)	Damage to Infrastructure / Assets	He stated that there is risk of flooding for his agricultural land plot (C/N 36.03.40.134) due planned construction work of Project road and demands that the shore protective works should be implemented to prevent the further damage of the land plot.	<p>On 11.12.2020 the Engineer received the complaint through the Employer's letter N 2-05/14067;</p> <p>On 21.12.2020 the Employer was informed that due to need to construct CL-203 ramp (belongs F2 section) of Interchange #3, in the vicinity of the mentioned land plot, the rip rap shall be arranged within a height of 3 meters from original ground level and approx. 26 meters from the river-bed, which will not lead to a restriction of the river bed. Besides, the retaining wall should be arranged within a approx. distance of 12 meters from the river-bed in purpose to construct CL-202 ramp (belongs F3 section) of the same interchange. Hence, the river bed may be temporarily restricted during arranging the foundation work of the mentioned retaining wall (1395-CKUSE60-UBM-GE);</p>	Rejected 21-12-20	Closed
55	RD	27-01-20	Irakli Chikovani ID: 01005025 052 Mob N: Sakasria (PK93+00)	Damage to Infrastructure / Assets	He stated that his own land plots (C/N 36.03.37.109 and C/N 36.03.37.565) are getting damage for time to time due narrowed river bed by the Contractor.	<p>On 27.01.2021 the Contractor and the Engineer received the complaint through the Employer's letter (N 2-05/781);</p> <p>On 13.02.2021 the Contractor was instructed to investigate the matter with the complainant and inform the Engineer on a technical basis along with a signed consensual agreement between the parties (1496-CKUSE60-UBM-GE);</p> <p>On 20.02.2021 the Contractor replied the Engineer that as a result of the joint investigation it found out, that there was no Contractor's construction work in the upper and lower reaches of the river course, and the reason for water rise is due to consecutive days of rain. It is not caused by the Contractor's construction and therefore it's not within the scope of the Contractor's responsibility (HNRB/G/F2/E/20210220-1);</p> <p>On 24.03.2021 the Employer was informed that the possible adverse impacts on the above-</p>	Rejected 24-03-21	Closed

						mentioned land plot due to the swollen river should not be caused by construction activities carried out by the Contractor adjacent to the same land plots (1578-CKUSE60-UBM-GE);		
56	RD	02.02.21	Konstantine Lomidze ID:56001001819 Mob N: 551144455 (PK40+00)	Damage to Infrastructure / Assets	He stated that his agricultural land plot (C/N 36.08.34.009) was inundated due to reducing the river-bed of Dzirula owing to the construction works of Khevi-Ubisa. Eventually, the plants and fence of the plot are damaged.	On 02.02.2021 the Contractor and the Engineer received the complaint through the Employer's letter (N 2-05/1055); On 06.02.2021 a joint inspection was implemented at Mr. Konstantine's land plot and it was endorsed that the agricultural land plot was flooded; On 13.02.2021 the Contractor was instructed to take up the matter with the complainant to sort out the issue in the form of a signed agreement and then reply to the Engineer (1495-CKUSE60-UBM-GE); On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);	Forwarded to CC	Open
57	RD	04.02.21	Nugzar Lomidze ID: 56001004256 Mob N: (PK39+00)	Damage to Infrastructure / Assets	He stated that his agricultural land plot (C/N 36.08.34.123) was inundated on 12th-13th January, 2021, due to reducing the river-bed of Dzirula owing to the construction works of Khevi-Ubisa (F2) section. Eventually, the plants and fence of the plot are damaged.	On 04.02.2021 the Engineer and the Contractor received the complaint through the Employer's letter (N 2-05/1186); On 06.02.2021 a joint inspection was implemented at Mr. Nugzar's land plot and it was endorsed that the agricultural land plot was flooded; On 13.02.2021 the Contractor was instructed to take up the matter with the complainant to sort out the issue in the form of a signed agreement and then reply to the Engineer (1495-CKUSE60-UBM-GE); On 10.04.2021 the Contractor was reminded at the Social meeting (MOM 311) to take follow the Engineer's instructions and resolve the issue as soon as possible (1698-CKUSE60-UBM-GE Dated: 12.05.2021);	Forwarded to CC	Open

58	RD	19.02.21	<p>Zosime Machaidze ID: 31001044 523 Mobile N: 579474664 (PK108+00)</p>	Damage to Infrastructure / Assets	<p>He stated that on February 15, 2021, a deep pit was formed near to his residential house (C/N 36.03.40.208), which is located on the top of the hill, where the tunnel excavation works is taking place. Respectively, he can't live in this house. Therefore, he demands that a proper investigation shall be implemented to assess the risk of danger for the mentioned house for now and for future. Finally, he added, that if the investigation determines that the residential area is dangerous for living, then he demands inclusion in LARP.</p>	<p>On 19.02.2021 the Engineer received the complaint through the Employer's letter (N 2-12/2016);</p> <p>On 16.02.2021 the joint site inspection was implemented and revealed that the pit is formed near to the residential area, as a result of the collapse of Tunnel N10-TA at PK 108+28. Also, the social team communicated with the house owner's family and informed that they shall not live in the house before a relevant safety measures will be provided. (Fortunately, this house isn't a main residence place and the family basically lives in another residential area. Hence, it wasn't necessary to provide the family with an alternative residential place);</p> <p>On 26.02.2021 the Contractor was instructed to provide a barrier around the pit and safety line around the homestead plot (C/C 36.03.40.208) as soon as possible. Moreover, it was required to satisfy the safety of the Tunnel as well (1520-CKUSE60-UBM-GE);</p> <p>On 16.03.2021 the Contractor was reminded to provide a solid barrier around the pit and warning/safety line around the homestead plot, as soon as possible, to prevent falling risk for humans and animals. Also, it was instructed as follows: - Communicate with the complainant to provide an alternative residential for his family; - Negotiate with the complainant regarding necessary remedial action for the damaged part of the homestead land plot. - Negotiate with the complainant concerning hiring relevant expertise with the Contractor's expenses for to assess any risks may have place at the construction stage and at the operational stage of Tunnel N10 for the entire satisfaction of the complainant (1547-CKUSE60-UBM-GE);</p> <p>On 16.03.2021 the Employer was informed regarding the above-mentioned findings (1548-CKUSE60-UBM-GE);</p> <p>On 18.03.2021 the Contractor informed the Engineer that he achieved lease agreement on</p>	Forwarded to CC	Open
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					<p>the complainant's homestead land plot in purpose to carry out the reinforcement work of Tunnel N10 and to backfill the soil to the collapsed area. (The agreement comes into force on March 05, 2021 and is valid until March 19, 2021.) (HNRB/G/F2/E/20210318-1);</p> <p>On 01.04.2021 the Engineer and the Contractor received the complaint through the Employer's letter (N 2-05/4851);</p> <p>On 10.04.2021 the Contractor was reminded to provide all necessary actions as it was instructed by the Engineer (1603-CKUSE60-UBM-GE);</p> <p>On 10.04.2021 the Employer was informed that the issues regarding Mr. Zosime still remain unresolved. Also, it was informed that the Contractor could not manage to finalize the planned works within the validation period of the Lease Agreement (1607-CKUSE60-UBM-GE);</p> <p>On 19.04.2021 the Contractor was required through the Employer's letter (N 2-05/5863) (cc to the Engineer) to inform him regarding the implemented measures taken by the Contractor;</p> <p>On 20.04.2021 the Engineer and the Contractor received the statement of Mr. Machaidze through the Employer's letter (N 2-05/5935) demanding to inform him regarding the deadline of the necessary measures;</p> <p>On 10.06.2021 the Employer was informed that the Contractor only provided barrier with metallic light fence around the part of the pit developed by the collapse. But, other necessary action, instructed by the Engineer, isn't implemented. Also, it was added that the ground on the collapsed section is very weak and the Contractor was unable to reinforce the section despite using of various methods, but various options are being processed (1755-CKUSE60-UBM-GE);</p> <p>On 22.06.2021 the Employer directly applied to the Contractor with the formal letter (N 2-06/9975) instructing to carry out works in</p>	
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						<p>accordance with contractual requirements as well as instructions of supervisor Engineer;</p> <p>On 30.06.2021 the Contractor stated with the formal letter (HNRB/G/F2/E/20210630-1) that he applied to the LEPL Levan Samkharauli National Forensics Bureau for an expert opinion on whether the land plot and the residential house owned by Mr. Machaidze are endangered during the construction works or whether there will be any danger after completion of the construction works;</p>		
59	RD	15.03.21	<p>Nugzar Lursmanashvili ID: 56001006 150 Mob N: 2) (PK80+00)</p>	<p>Damage to Infrastructure / Assets</p>	<p>He stated that new cracks are developed on his residential house due to the excavation work of Tunnel N9 with blasting.</p>	<p>On 15.03.2021 the Engineer received the complaint through the Employer's letter (N 2-05/3572);</p> <p>On 20.03.2021 the joint site inspection was implemented and it found out that Mr. Nugzar Lursmanashvili's house is located within approx. 225 meters from Tunnel N9. Whereas, Mr. Amiran Lursmanashvili's house - approx. 248 meters. Also, it found out that a structural cracks have place on the walls of the residential houses and the supporting building. But, it is impossible to determine whether the structural cracks are caused by the blasting activities of Tunnel N9, as the Contractor hasn't surveyed the pre-construction technical condition of the mentioned buildings, despite the Engineer's repeated instructions. The Contractor only submitted the partial instrumental monitoring report of blasting vibration for Tunnel N9 (covering the period from 01.03.2021 to 21.03.2021). According to the report, the safety vibration speed standard (PVV 2.5 mm/s) specified within the project, is not exceeded;</p> <p>On 10.04.2021 the Contractor was instructed to:</p> <ul style="list-style-type: none"> - Submit the full blasting vibration monitoring report of Tunnel N9 to the Engineer; - Continue regular blasting vibration instrumental monitoring for the aforementioned residential houses through the blasting of Tunnel N9 and don't remove the device without the Engineer's 	<p>Forwarded to CC</p>	

						<p>approval; - Hire a third-party authorized company to provide the technical condition survey report of the above-mentioned complainant's buildings; - Hire a third-party authorized company to investigate the cause of the cracks for the aforementioned buildings, in order to implement further relevant measures (1604-CKUSE60-UBM-GE);</p> <p>On 10.04.2021 the Employer was informed regarding the above findings and the Engineer's instructions to the Contractor (1605-CKUSE60-UBM-GE);</p> <p>On 19.04.2021 the Contractor was requested by the Employer to inform him regarding the implemented measures taken by the Contractor (N 2-05/5862);</p> <p>On 28.06.2021 the Contractor was reminded with the formal letter (1786-CKUSE60-UBM-GE) to follow the Engineer's above instructions;</p>		
60	RD	22.03.21	Giorgi Sakhvadze ID: 56001017 470 Mob N: (PK56+00)	Damage to Infrastructure / Assets	<p>He stated that new cracks are developed on the walls of his residential house and the Contractor provided an alternative residential house for his family, but no agreement is signed between them in writing.</p>	<p>On 22.03.2021 the Engineer received the complaint through the Employer's letter (N 2-12/4085);</p> <p>On 09.04.2021 the joint site inspection was implemented and it found out that a structural cracks have place on the walls of the residential house. But, it is impossible to determine whether the cracks are caused by the blasting activities of Tunnel N8, as the Contractor hasn't surveyed the pre-construction technical condition of the mentioned building and the Contractor has submitted only partial instrumental monitoring report of blasting vibration for Tunnel N8;</p> <p>On 21.04.2021 the Contractor was instructed to: - Submit the full blasting vibration monitoring report of Tunnel N8 to the Engineer; - Carry out regular blasting vibration instrumental monitoring for Mr. Sakhvadze's residential house throughout the blasting of Tunnel N8. Also, the Contractor was recommended to: - Hire a third-party authorized company to provide the technical condition survey report of the residential house; - Hire a third-party authorized</p>	Forwarded to CC	Open

						<p>company to investigate the cause of the cracks on the above-mentioned residential house, in order to implement further relevant measures (1644-CKUSE60-UBM-GE);</p> <p>On 21.04.2021 the Employer was informed through the formal letter (1647-CKUSE60-UBM-GE) regarding the above findings and the Engineer's instructions;</p> <p>On 29.06.2021 the Employer forwarded another application of the complainant with the same concerns and was required to study the issue and inform him in writing (N 2-08/10414);</p> <p>On 06.07.2021 the Employer was informed once again regarding the above findings and the Engineer's instruction to the Contractor. Also, the Employer was informed that the Contractor has not fulfilled either his obligation undertaken within the social meeting nor the Engineer's formal instructions (1807-CKUSE60-UBM-GE);</p>		
61	Gov	29.03.21	<p>Vil. Vashlevi Public School represented by Director Mrs. Ketino Lursmanshvili Mob N: 577977492 (PK86+00)</p>	<p>Damage to Infrastructure / Assets</p>	<p>The school director stated that new cracks are developed on the walls of the school building due to the tunnel blasting activities at Tunnel N9 and Tunnel N10. Also, it was stated the blasting activities caused damage on the water channels of the mountain, which eventually resulted puddles in the school yard. (C/C 36.03.36.023)</p>	<p>On 29.03.2021 the Engineer received the complaint through the Employer's letter (N 2-05/4581);</p> <p>On 03.04.2021 the Contractor stated as follows: ``The Contractor went to the site to check and confirm that the school's playground was submerged due to many days of continuous rainfall, the rainwater flowing down from the mountain flows directly into the playground of the school, which is not resulted from the Contractor's construction. The tunnel near the school blasted and the measured values were within a reasonable range, and it was more than 550 meters away from the school. The cause of the cracking was due to disrepair many years. However, the Contractor was willing to actively cooperate to build a drainage channel outside the school to protect the school playground.`` (HNRB/G/F2/E/20210403-3);</p> <p>On 03.04.2021 the Contractor stated as follows: ``The Contractor went to the site to check and confirm that the school's playground was submerged due to many days of continuous</p>	<p>Forwarded to CC</p>	<p>Open</p>

					<p>rainfall, the rainwater flowing down from the mountain flows directly into the playground of the school, which is not resulted from the Contractor's construction. The tunnel near the school blasted and the measured values were within a reasonable range, and it was more than 550 meters away from the school. The cause of the cracking was due to disrepair many years. However, the Contractor was willing to actively cooperate to build a drainage channel outside the school to protect the school playground. `` (HNRB/G/F2/E/20210403-3);</p> <p>On 02.04.2021 the joint site inspection was implemented and it found out that the structural and cosmetical cracks have place on the walls of the school, which are not reflected in the pre-construction inspection report provided by the company TTC Management. Also, it found out, that the flooding of the school yard is partially caused due to the changed terrain by the Contractor in adjacent of the school;</p> <p>On 01.05.2021 the Contractor was instructed to:</p> <ul style="list-style-type: none">- Submit the full blasting vibration monitoring report of Tunnel N9 to the Engineer through a formal letter;- Implement regular blasting vibration instrumental monitoring of Tunnel N9 under the Engineer's inspection and report to the Engineer on a weekly basis through a formal letters; <p>Also, it was recommended to:</p> <ul style="list-style-type: none">- Hire a third-party authorized company to provide the relevant technical condition survey report of the school building;- Hire a third-party authorized company to investigate the cause of the cracks for the aforementioned building, in order to implement further relevant measures. Besides, the Contractor was instructed to provide a drainage channel with coordination to the school administration, in order to protect the school yard from further flooding (1671-CKUSE60-UBM-GE);<p>On 04.05.2021 the Employer was informed through the formal letter (1668-CKUSE60-UBM-</p>		
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						GE) regarding the above-mentioned findings and instructions;		
6 2	RD	30.03. 21	Amiran Rusadze ID: 56001009 499 Mob N: 59926522 8 (PK92+00)	Damag e to Infrastr ucture / Assets	He stated that his agricultural land plot (C/C 36.03.37.469) is collapsed owing to landslide occurred due to the carried out excavation works in the adjacent area. Consequently, he demanded inclusion in LARP.	On 29.03.2021 the Engineer received the complaint through the Employer's letter (N2-12/4688); On 04.05.2021 the Employer was informed that approx. 470 sq.m of the land plot is collapsed due to the carried-out excavation work within the RoW, by the Contractor. The collapse basically should be resulted by soft ground rocks along with excessive precipitation. Hence, the Employer was recommended that acquisition of the aforementioned land plot should be discussed by the commission of RD (1681-CKUSE60-UBM-GE); On 21.05.2021 the Employer required from the Contractor through the formal letter (N 2-08/7890) to immediately take measures in order to provide loss reimbursement for the land plot of Citizen Amiran Rusadze and recover violated legal rights;	Forwar ded to CC	Open
6 3	RD	12.04. 21	Lela Samkhara dze ID: 56001016 935	Damag e to Infrastr ucture / Assets	She stated that the fence and agricultural plant of her land plot is damaged due to flooding caused by the reduced river bed of Dzirula.	On 12.04.2021 the Engineer received the statement of Ms. Lela Samkharadze through the Employer's letter (N 2-05/5505); On 29.05.2021 the joint site inspection was implemented and revealed that Ms. Samkharadze's agricultural land plot is bounded, from the side of the river, with the fence arranged with a wooden poles and tree branches. The part of the mentioned fence is damaged, which maybe caused due to the river flooding during excessive precipitation. Besides, it revealed that the Contractor disposed the inert materials (rocks extracted from the tunnels) along the river Dzirula without a permission, outside the RoW, which narrows the river-bed and threatens Ms. Samkharadze's agricultural land plot, located along the river, to be flooded during the excessive precipitation; On 01.06.2021 the Contractor was instructed to restore the damaged fence of the mentioned agricultural land plot (to protect against a cattle)	Accept ed 25.06.2 1	Open

						<p>and remove the inert materials disposed along the river, outside of the RoW, in order to prevent a damage to the same agricultural land plot along with the agricultural plants (1740-CKUSE60-UBM-GE);</p> <p>On 01.06.2021 the Employer was informed regarding the above findings and the Engineer's instruction on the Contractor (1741-CKUSE60-UBM-GE);</p> <p>On 26.06.2021 the Contractor submitted the signed consensual agreement with the landowners through the formal letter (HNRB/G/F2/E/20210626-2);</p> <p>On 03.07.2021 the Engineer forwarded the formal agreement to the Employer with the formal letter (1797-CKUSE60-UBM-GE);</p>		
64	Gov	22.04.21	The school of village Boriti (PK121+00)	Damage to Infrastructure / Assets	<p>The school administration stated that there is great risk to damage the school area due narrowed river bed of Dzirula by the Contractor.</p>	<p>On 22.04.2021 the Engineer and the Contractor received the school's statement through the Employer's letter (N 2-05/6137);</p> <p>On 15.05.2021 the joint site inspection was implemented and revealed that the Contractor arranged temporary service bridge over the river Dzirula due to the needs of ongoing construction work in the vicinity of the school's area, as well as, the Contractor narrowed the river-bed in order to carry out piling work for Piles (P4-TA & P4-AT) of Bridge N18. However, the area of the school is located approximately 6 meters above from the level of the river, within approx. 20 meters from the river-bed and within approx. 57 meters from the narrowed section of the river. Consequently, ongoing construction work doesn't pose a risk of flooding for the school's area;</p> <p>On 21.05.2021 the Employer was informed through the formal letter (1727-CKUSE60-UBM-GE) regarding the above findings and it was added that upon completion of the ongoing construction works on this section, the temporary service bridge will be uninstalled and the river-bed will return to its original condition;</p>	Rejected	Closed

65	UBM	07.04.21	<p>Amiran Lursmanashvili</p> <p>ID: 56001015248</p> <p>Mob N: (PK80+00)</p>	Damage to Infrastructure / Assets	<p>He stated that new cracks are developed on his residential house due to the excavation work of Tunnel N9 with blasting. Eventually, he demands that the issue should be investigated and resolved;</p> <p>On 07.04.2021 the Engineer received the statement of Mr. Amiran Lursmanashvili through the Employer's letter (N 2-05/5251) with the same concerns;</p>	<p>On 20.03.2021 the joint site inspection was implemented and it found out that Mr. Amiran Lursmanashvili's house is located within approx. 248 meters from Tunnel N9. Also, it found out that a structural cracks have place on the walls of the residential house. But, it is impossible to determine whether the structural cracks are caused by the blasting activities of Tunnel N9, as the Contractor hasn't surveyed the pre-construction technical condition of the mentioned building, despite the Engineer's repeated instructions. The Contractor only submitted the partial instrumental monitoring report of blasting vibration for Tunnel N9. According to the report, the safety vibration speed standard (PVV 2.5 mm/s) specified within the project, is not exceeded;</p> <p>On 07.04.2021 the Engineer received the statement of Mr. Amiran Lursmanashvili through the Employer's letter (N 2-05/5251) with the same concerns;</p> <p>On 10.04.2021 the Contractor was instructed to:</p> <ul style="list-style-type: none"> - Submit the full blasting vibration monitoring report of Tunnel N9 to the Engineer; - Continue regular blasting vibration instrumental monitoring for the aforementioned residential house through the blasting of Tunnel N9 and don't remove the device without the Engineer's approval; - Hire a third-party authorized company to provide the technical condition survey report of the above-mentioned house; - Hire a third-party authorized company to investigate the cause of the cracks for the aforementioned house, in order to implement further relevant measures (1604-CKUSE60-UBM-GE); <p>On 10.04.2021 the Employer was informed regarding the above findings and the Engineer's instructions to the Contractor (1605-CKUSE60-UBM-GE);</p> <p>On 10.05.2021 the Employer was informed (as respond to his formal letter N 2-05/5251)</p>	Forwarded to CC	Open
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						<p>regarding the above findings and the Engineer's instructions to the Contractor (1690-CKUSE60-UBM-GE);</p> <p>On 25.06.2021 the Employer forwarded another application of the complainant with the same concerns and instructed the Engineer and the Contractor to study the issue and carry out relevant measures (N 2-06/10203);</p> <p>On 28.06.2021 the Contractor was reminded with the formal letter (1786-CKUSE60-UBM-GE) to follow the Engineer's above instructions;</p>		
66	RD	10.05.21	<p>Liana Lomidze</p> <p>ID: 56001002000</p> <p>Mob N: 593547833 & 568960263</p> <p>(PK 54+00)</p>	Damage to Infrastructure / Assets	<p>She stated that new cracks are developed on the walls of her residential house (C/C 36.08.37.219) due to the ongoing blasting activities in Tunnel N8.</p>	<p>On 10.05.2021 the Engineer received the statement of Ms. Lomidze through the Employer's letter (N 2-06/7074);</p> <p>On 14.06.2021 the Contractor was instructed to investigate the issue on a technical bases under the Engineer's inspection and submit finding in this regard to the Engineer, as soon as possible (1741-CKUSE60-UBM-GE);</p>	Forwarded to CC	Open
67	RD	21.05.21	<p>Temur Tsitskishvili</p> <p>ID: 56001014736</p> <p>Mob N: 558916342</p> <p>(PK57+00)</p>	Damage to Infrastructure / Assets	<p>He stated that there are the damaged to the drinking water supply and the fence of his homestead land plot (C/C 36.08.33.209) due to the ongoing construction works.</p>	<p>On 21.05.2021 the Engineer received Mr. Tsitskishvili's statement through the Employer's letter (N 2-06/7884);</p> <p>On 17.06.2021 the Contractor was instructed to investigate the issue under the Engineer's inspection, then provide consensual agreement with Mr. Tsitskishvili and submit to the Engineer (1768-CKUSE60-UBM-GE);</p> <p>On 22.06.2021 the Employer forwarded another application of Mr. Temur Tsitskishvili with same concern (N 2-06/9968);</p> <p>On 28.06.2021 the Contractor was reminded to take up the matter with the complainant to reach on end-to-end solution, then, provide consensual agreement signed by the both parties and submit to the Engineer (1785-CKUSE60-UBM-GE);</p>	Forwarded to CC	Open

68	RD	28.05.21	<p>Tatiana Grigalashvili</p> <p>ID: 56001019596</p> <p>Mob N: 597101028 (PK6+30)</p>	Restriction or loss of access	<p>She stated that the access road for her residential house (C/C 36.05.34.518) is blocked due to the carried out excavation works. Hence, she demands an alternative access.</p> <p>Besides, she demands a retaining wall along her residential house to protect it from further possible landslide.</p>	<p>On 28.05.2021 the Employer forwarded the statement of citizen Tatiana Grigalashvili (N 2-08/8345);</p> <p>On 07.06.2021 the Employer forwarded some statement of Ms. Grigalashvili (N 2-06/8938);</p> <p>On 05.06.2021 the site inspection revealed that the pre-existing transport access to Ms. Grigalashvili's yard was blocked due to carried out excavation works within the RoW by the Contractor. But, fortunately, the Project provides alternative transport access for the mentioned yard;</p> <p>On 14.06.2021 the Contractor was instructed to provide any alternative transport access (the project defined or any other temporary option) for Ms. Grigalashvili's yard, as soon as possible. Besides, it was instructed to investigate under the Engineer's inspection, whether a retaining wall is required to protect Ms. Grigalashvili's homestead land plot from a potential landslide and inform the Engineer in writing (1760-CKUSE60-UBM-GE);</p> <p>On 23.06.2021 the Employer was informed regarding the above findings of the site inspection and the Engineer's instruction to the Contractor (1779-CKUSE60-UBM-GE);</p> <p>On 28.06.2021 the Contractor was reminded to provide any alternative access (the project defined or any other temporary option) for Ms. Tatiana Grigalashvili's residential house, as soon as possible. Also, the Contractor was reminded to prepare a proposal along with drawings and estimated costs for the construction of a retaining wall along Ms. Grigalashvili's residential house to protect it against a potential landslide (1784-CKUSE60-UBM-GE);</p> <p>On 05.07.2021 the site inspection revealed that the Contractor provided the alternative transport access for the mentioned residential house;</p>	Forwarded to CC	Open
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69	RD	08.06.21	<p>Bakar Barbakadze</p> <p>ID: 56001011181</p> <p>Mob N: 577116726</p> <p>PK 119+00</p>	Inclusion in LARP	<p>He stated that the Contractor is positioning on the part of his agricultural land plot (C/C 36.03.40.356) and carrying out the construction work.</p> <p>Also, he stated that there is an access road problem of the mentioned land plot due to the construction of the Project.</p> <p>Eventually, he demanded inclusion in LARP.</p>	<p>On 08.06.2021 the Employer forwarded the application of Ms. Bakar Barbakadze through the formal letter (N 2-08/9023);</p> <p>On 28.06.2021 the Employer was informed that the part (approx. 27 sq.m) of the mentioned land plot is located within the handed-over section of the RoW, where Bridge N18 is under the construction. Also, it was informed that the access for the same land plot is through the existing village road, as well as through crossing of the construction site. But, after the completion of construction, the land plot additionally will be provided with another access through the Local Road N4. Finally, the Employer was recommended to acquire the mentioned part (27 sq.m) of the land plot or relocate it with an alternative option (1783-CKUSE60-UBM-GE);</p>	Forwarded to RD	Open
70	CC	30.06.21	<p>The kindergarten and the school of the village Boriti</p> <p>Email : kharagauli.meria.kancelaria@gmail.com</p>	HSE Concerns	<p>There is the risk of adverse impact for the kindergarten and the school of village Boriti, due to the Project at the construction stage and at the operational stage.</p>	<p>On 30.06.2021 the Contractor responded to the Kharagauli City Hall with the formal letter (HNRB/G/F2/E/20210630-3) stating that the distance from the carriageway to the wall of the main building of the kindergarten is 17.94 meters, and to the auxiliary building is 10-11 meters, as well as the Project RoW covers the part of the area of the kindergarten's yard. Eventually, the Contractor stated that it isn't possible to conduct the construction process safely and the kindergarten area and children shall not be protected from the possible danger;</p> <p>On 13.07.2021 the Employer was informed that the distance between the building of the Boriti kindergarten and the edge of the carriageway is approximately 18 meters. In case of the public school building (sports hall) of Boriti, the distance is approx. 16 meters. Hence, appropriate safety measures cannot be ensured during the planned construction works in the aforementioned area. Besides, the Employer was informed that as per EIA, if because of</p>	Forwarded to RD	Open

						<p>technical and economical purposes the road is to cross the settlement, the distance between the residential area and the edge of the carriageway must be not less than 50m, in case noise barriers are provided - 25 m. To protect residential area from noise and emission impact, 10m wide green barrier must be arranged. However, the Project doesn't provide a noise barrier in the vicinity of the above-mentioned buildings. Finally, the Employer was required to discuss the above non-compliances with the commission and reply in writing (1821-CKUSE60-UBM-GE);</p>		
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Annex 5: Attendance Sheets for Trainings

Annex 2.



E40 HIGHWAY ROUTE EXTENSION PROJECT F2 SECTION KHEVLUBISA

Induction Attendance Log
HSE INDUCTION FORM

Date:	27/03/2021	Title of Training	Environmental Induction Training
Total Class Hours	2 Hours	Instructor(s)	Levan Inashvili
Area	Meeting Room	Location	Main Camp (Boriti)

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) Yang Jianjian		秘书	95501999021610	
2) Dai Hao Jun		机务	6252019190001586	
3) Lai Tu Xiang		机务	450125196406100035	
4) ZHU XIN HUA		开挖	EH58A4 704	
5) XIONG PEI QIU		平挖	430322197005318816	
6) WU Xiu long		电焊	41092714850202604	
7) YUAN BO		=衬	E 33650408	
8) XIANG YONG qian		开挖-主梁	E13460875	
9) XIANG DA Yong		开挖-主梁	42282219810911370	
10) NEQILONG		机务	4322619760020202	

Health, Safety, and Environmental



E/6 HIGHWAY ROUT EXTENSION PROJECT P2 SECTION KHEVI-UBISA

Induction Attendance Log
HSE INDUCTION FORM

Date:	24 10/2021	Title of Training	HSE Induction / Covid 19/ Working at height
Total Class Hours	2 Hours	Instructor(s)	Alexandre Chitaze
Area	Port:	Location	Main Camp

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) Gashab mng'athson		2721	11001021084	
2) Ronald pudob		20225	56001016345	
3) Jacky Spand		2721	01001057002	
4) Joyce Gashab		2721	56001005103	
5)				
6)				
7)				
8)				
9)				
10)				



E60 HIGHWAY ROUT EXTENSION PROJECT P1 SECTION KHEVI-LIBSA

Induction Attendance Log

HSE INDUCTION FORM

Health and Safety mandatory induction

Date:	23 Oct 2021	Title of Training	Health and Safety mandatory induction
Total Class Hours	2 Hours	Instructor(s)	David - 09 / Working at heights training
Area	Working areas	Location	Basin's camp

	Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1)	Song Shi Jun	宋世军			Q
2)	Wang Yueshi	王悦时			Q
3)	Wu Xinbiao	吴新标			Q
4)	He Bin	何斌			Z
5)	Zhang Junhui	张军辉			Z
6)	Fang Foxin	方福鑫			I
7)	Xu Hui	徐辉			I
8)	Su Jiang Tao	苏江涛			
9)	Xie Ling Feng	谢岭丰			
10)					

D. G. G. G.
Health, Safety and Environmental



E60 HIGHWAY ROUT EXTENSION PROJECT F2 SECTION KHEVI-LIRISA

Induction Attendance Log
HSE INDUCTION FORM

Date:	28 10/2021	Title of Training	HSE Induction / Covid 19 / Working at Height
Total Class Hours	2 Hours	Instructor(s)	Alexandre Cl. Fodze
Area	Port:K	Location	Main Camp

	Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1)	Phyllis Rumbondo	[Signature]	add	47001042510	
2)	Sahag Sphakomso	[Signature]	add	01801152141	
3)	Joseph Sombodi	[Signature]	Shogom	47001003993	
4)					
5)					
6)					
7)					
8)					
9)					
10)					



E69 HIGHWAY ROUT EXTENSION PROJECT P2 SECTION KHEVI-JIRISA

Induction Attendance Log
HSE INDUCTION FORM

Date:	29 10 2021	Title of Training	HSE Induction/ Covid 19/ Working at height
Total Class Hours	2 Hours	Instructor(s)	Alexandre Cl. Fodze
Area	Project:	Location	Main Camp

Name & Surname	Signature	Job Title	Personal No. (ID or badge number)	COMPANY
1) Gmgnh Bwgybys'		BSGS	57001958238	
2) Shkag Kwpbgn		gkwpbgn	57001059213	
3) asbntn wjyqyly		gkwpbgn	350010119014	
4) Gmgnh gn swhfcer		gkwpbgn	570010100000	
5) Shkag Kwpbgn		gkwpbgn	181010101010	
6) gnw Gmgnh Bwgybys'		gkwpbgn	43001006093	
7) Gnwh Kwpbgn		gkwpbgn	590010101010	
8) Gnwh Kwpbgn		gkwpbgn	36001018135	
9) Gnwh Kwpbgn		gkwpbgn	57001003416	
10) Gnwh Kwpbgn		gkwpbgn	570010101010	



Induction Attendance Log
HSE INDUCTION FORM

Date:	21 10 2020	Title of Training	HSE Induction / Covid 19 / Working at height
Total Class Hours	2 Hours	Instructor(s)	Alexandre Ch. Ladze
Area	Port:	Location	Main Camp

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) Y. Khabibov		Supervisor	43801028153	
2) B. M. M. B. B. B.		Worker	43901046093	
3) K. M. M. M. M.		Worker	56001024282	
4) A. D. D. D. D.		Worker	1800107914	
5) K. M. M. M. M.		Worker	56001020026	
6) A. D. D. D. D.		Worker	58001028414	
7) G. M. M. M. M.		Worker	57201026031	
8) A. D. D. D. D.		Worker	60550010344	
9) B. M. M. M. M.		Worker	58001022335	
10) Y. K. K. K. K.		Worker	49001028133	



Induction Attendance Log
HSE INDUCTION FORM

Date:	21 Nov 2020	Title of Training	HSE Induction / Covid 19 / Working at height
Total Class Hours	2 Hours	Instructor(s)	Alexandre Ch. Fardze
Area	Post:	Location	Main Camp

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) Fardze A. Ch.	<i>[Signature]</i>	Officer	61009002965	
2)				
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				

Health, Safety, and Environmental
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Induction Attendance Log
HSE INDUCTION FORM

Date:	20/04/2020	Title of Training	HSE Induction/ Covid 19 / Working at height
Total Class Hours	2 Hours	Instructor(s)	Aleksandr Ch. Iodtze
Area	Bot.t:	Location	Main Camp

Name & Surname	Signature	Job Title	Personal No. (ID or badge number)	COMPANY
1) Էդուարդ Կարամյան		ԿՏՁ	56001061814	
2) Նիկոլայ Կոնյակ		Լ. ԿՄԸ	560010156 49	
3) Գրիգոր Զեբազե		ԳՄՈՐ	49001013228	
4) Գրիգոր Կարամյան		ՄՅԻՍԿՆԻԿ	56001022988	
5) Զարգար Բոթաճյան		ԳԳԳԳԳԳԳԳ	56001001839	
7) Յուրայ Զեբազե		ՅԵՄՈՐ	56 00 10 14 834	
8)				
9)				
10)				

S. A. Iodtze



E60 HIGHWAY ROUTE EXTENSION PROJECT P2 SECTION KHEVI-LIRISA

Induction Attendance Log

HSE INDUCTION FORM

Date:	19/07/2021	Title of Training	Health and Safety mandatory induction Covid-19 / Working at heights training
Total Class Hours	2 Hours	Instructor(s)	Dudashi, Tukhalaskvil
Area	Meeting room	Location	Basanti camp

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) ბარბაქაძე ანდრეასი		მუშაკი	56001024218	NA
2) ბარბაქაძე ბ.ბ.		მუშაკი	57001001351	NA
3) ბარბაქაძე ბ.ბ.		მუშაკი	52001049378	NA
4) ბარბაქაძე ბ.ბ.		მუშაკი	57001053167	NA
5) ბარბაქაძე ბ.ბ.		მუშაკი	57001053690	NA
6) ბარბაქაძე ბ.ბ.		მუშაკი	57001031219	NA
7) ბარბაქაძე ბ.ბ.		მუშაკი	57001053000	NA
8) ბარბაქაძე ბ.ბ.		მუშაკი	57001056292	NA
9) ბარბაქაძე ბ.ბ.		მუშაკი	57001057275	NA
10) ბარბაქაძე ბ.ბ.		მუშაკი	57001038962	NA

P. Barbakadze
Health, Safety and Environmental



E60 HIGHWAY ROUTE EXTENSION PROJECT P2 SECTION KHEVI-UBISA

Induction Attendance Log

HSE INDUCTION FORM

Health and Safety mandatory induction
Covid-19 Working at heights training

Date:	18 Oct 2021	Title of Training	Health and Safety mandatory induction Covid-19 Working at heights training	
Total Class Hours	2 Hours	Instructor(s)	Dadashi Kuthalashvili	
Area	Meeting room	Location	Basiti camp	

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) <i>საგა-ბიჭიშვილი</i>	<i>ს. ბიჭიშვილი</i>	<i>ბატი</i>	<i>13081062828</i>	<i>AN</i>
2) <i>საბაგა ბიჭიშვილი</i>	<i>ს. ბიჭიშვილი</i>	<i>ბატი</i>	<i>56001023967</i>	<i>AN</i>
3)				<i>AN</i>
4)				<i>AN</i>
5)				<i>AN</i>
6)				<i>AN</i>
7)				<i>AN</i>
8)				<i>AN</i>
9)				<i>AN</i>
10)				<i>AN</i>

P. G. G. G.
Health, Safety and Environmental



E60 HIGHWAY ROUTE EXTENSION PROJECT P2 SECTION KHEVI-LIBISA

Induction Attendance Log

USE INDUCTION FORM

Health and Safety awareness induction
Covid-19 Working at heights training

Date:	7 Oct 2021	Title of Training	Health and Safety awareness induction Covid-19 Working at heights training	
Total Class Hours	2 Hours	Instructor(s)	Dadashi Kulkalaskuli	
Area	Meeting room	Location	Basiti camp	

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) Poojara Lakshmi		Supervisor	63004018990	AD
2) Poojara Lakshmi		Supervisor	60001112114	AD
3) Poojara Lakshmi		Supervisor	57001011199	AD
4) Poojara Lakshmi		Supervisor	59001031460	AD
5) Poojara Lakshmi		Supervisor	56001021468	AD
6) Poojara Lakshmi		Supervisor	19001011654	AD
7) Poojara Lakshmi		Supervisor	51001004962	AD
8) Poojara Lakshmi		Supervisor	560010214519	AD
9) Poojara Lakshmi		Supervisor	19001011458	AD
10) Poojara Lakshmi		Supervisor		AD

P. Lakshmi
Health, Safety and Environmental



E90 HIGHWAY ROUTE EXTENSION PROJECT F2 SECTION KHEVI-LIBISA

Induction Attendance Log

USE INDUCTION FORM

Date:	15/04/2021	Title of Training	Health and Safety mandatory induction Covid-19 Working at heights training	
Total Class Hours	2 Hours	Instructor(s)	Dadaochi Etkhalaskvili	
Area	Meeting room	Location	Basiti camp	

	Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1)	ᄁᄁᄁ ᄁᄁᄁᄁᄁ		ᄁᄁᄁᄁ	01019053133	ᄁᄁ
2)	ᄁᄁᄁᄁᄁ ᄁᄁᄁᄁᄁᄁ		ᄁᄁᄁᄁᄁᄁ	570070059ᄁ	ᄁᄁ
3)	ᄁᄁᄁᄁᄁ ᄁᄁᄁᄁᄁᄁ		ᄁᄁᄁᄁᄁᄁ	52001053495	ᄁᄁ
4)	ᄁᄁᄁᄁᄁ ᄁᄁᄁᄁᄁᄁᄁᄁᄁ		ᄁᄁᄁᄁᄁ	58001023865	ᄁᄁ
5)					ᄁᄁ
6)					ᄁᄁ
7)					ᄁᄁ
8)					ᄁᄁ
9)					ᄁᄁ
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E60 HIGHWAY ROUTE EXTENSION PROJECT P2 SECTION KHEVI-LERISA

Induction Attendance Log

HSE INDUCTION FORM

Health and Safety mandatory induction

Date:	14/09/2021	Title of Training	Health and Safety mandatory induction
Total Class Hours	2 Hours	Instructor(s)	COVID-19 / Working at heights training
Area	Working room	Location	Dadashi Kulkalaskavil Basiti camp

	Name & Surname	Signature	Job Title	Personal No. (ID or badge number)	COMPANY
1)	gachga lsbjddj		gddj	5600102959	M
2)	ghgmc bmsdy		gjsjs	56001028281	R
3)	gach ghjdnady		ghjdnady	56001020335	Z
4)	hmsdg gsbjgdy		ghjdnady	18001003606	Z
5)					
6)					
7)					
8)					
9)					
10)					

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Health, Safety and Environmental



E60 HIGHWAY ROUTE EXTENSION PROJECT F2 SECTION KHEVI-UHISA

Induction Attendance Log

HSE INDUCTION FORM

Date:	13.04.2021	Title of Training	HSE mandatory Induction / working at heights training	
Total Class Hours	2 Hours	Instructor(s)	Dadasahi Kukkarasheri	
Area	Workshop area	Location	Baciti camp	

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) Zakhac Embech		3rd worker	57 001014199	
2) Zaxa .Sylh		3rd worker	56 001018395	
3) mada .Sylh		3rd worker	56 001026196	
4) Zaxa .Sylh		3rd worker	56 001026196	
5) mada .Sylh		3rd worker	56 001026196	
6) Zaxa .Sylh		3rd worker	57 001028245	
7) Zaxa .Sylh		3rd worker	59 001121192	
8) Embech Embech		3rd worker	57 001056129	
9) Zaxa .Sylh		3rd worker	56 001028245	
10)				

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E-60 HIGHWAY ROUTE EXTENSION PROJECT P2 SECTION KHEVI-LHISA

Induction Attendance Log
HSE INDUCTION FORM

Date:	12/04/2021	Title of Training	HSE Induction/working at heights training	
Total Class Hours	2 Hours	Instructor(s)	Dadasaheb Kuthalasthali	
Area	Meeting room	Location	Bantki camp	

Name & Surname	Signature	Job Title	Personnel No. (ID or badge number)	COMPANY
1) Anandhar Ambekar		Supervisor	59001052010	CA
2) Anandhar Ambekar		Supervisor	56001001884	CA
3) Anandhar Ambekar		Supervisor	57001058688	CA
4) Anandhar Ambekar		Supervisor	57001058451	CA
5) Anandhar Ambekar		Supervisor	570000708	CA
6) Anandhar Ambekar		Supervisor	57001007878	CA
7)				
8)				
9)				
10)				

Health, Safety, and Environmental



E60 HIGHWAY ROUTE EXTENSION PROJECT P2 SECTION KHEVI-ERISA

Induction Attendance Log
HSE INDUCTION FORM

Date:	09 10Y 2021	Title of Training	HSE Induction/Working at height
Total Class Hours	2 hours	Instructor(s)	Aleksandra Chitadze
Area	Port:	Location	Main Camp

Name & Surname	Signature	Job Title	Personal No. (ID or badge number)	COMPANY
1) შალვა ვახტანგაძე	<i>[Signature]</i>	ადმინისტრატორი	52001000095	
2) სპიტიასვილი ვ. ვ. ვ.	<i>[Signature]</i>	ბ. ვ. ვ.	56001022395	
3) გუგუნი ილია	<i>[Signature]</i>	ხელმძღვანელი	56002003669	
4) გუგუნი ვ. ვ. ვ.	<i>[Signature]</i>	ბ. ვ. ვ.	56002024492	
5) გუგუნი ვ. ვ. ვ.	<i>[Signature]</i>	ბ. ვ. ვ.	570011222365	
6) გუგუნი ვ. ვ. ვ.	<i>[Signature]</i>	ბ. ვ. ვ.	56001014008	
7) გუგუნი ვ. ვ. ვ.	<i>[Signature]</i>	ბ. ვ. ვ.	56002024445	
8) გუგუნი ვ. ვ. ვ.	<i>[Signature]</i>	ბ. ვ. ვ.	56001026125	
9) გუგუნი ვ. ვ. ვ.	<i>[Signature]</i>	ოპერატორი	14437084911	
10) გუგუნი ვ. ვ. ვ.	<i>[Signature]</i>	ბ. ვ. ვ.	32043295922	

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Annex 6: HSE Log book

ACCIDENTS, INCIDENT, NEAR MISS, FIRST AID, LTI -log book	
DATE	INCIDENT (short description)
28.03.2019	<p>Around at 16:30 pm, on main camp site HSE team noticed that construction (removal of topsoil under OHPL) activity was not stopped and it was ongoing with violations of HSE rules and procedures, particularly: Dumper Truck was stuck in the muddy ground and to pull it out excavator was pushing it from behind by excavator bucket.</p> <p>During this unsafe activities excavator operator entered area under high voltage (10kW) electrical power lines, which was earlier identified by the HSE department as a hazardous area and no work activity zone, additionally reported to the project construction management team not to conduct any lifting activities or access with high equipment and trucks nearby OHPL. Suddenly excavator reached area under electrical power lines, excavator boom came in contact with cables and started sparking, operator immediately reacted and reversed equipment backwards from OHPL. (Incident did not caused any injuries)</p>
26.06.2019	<p>26-th of June around 14:50 pm company employees (driver, engineer) were traveling on a E60 highway near Khunevi village, traffic was slow on a highway for the moment and eventually HNRB vehicle (reg# HN-123-RB) came to full stop due to the traffic, suddenly Minibus (FORD transit, reg#SS-985-SO) travelling same direction came into contact with company vehicle and crashed into boot area from behind. (Incident did not caused any injuries)</p>
14.11.2019	<p>On 14.11.2019 around at 10:00 AM HNRB HNRB employee Mr. Rao Jinke (crane operator) got order from his supervisor to prepare mobile crane (plate number ER – 443 RE) for lifting activity in main parking area. Mr. Jinke noticed that there was restricted space for reversing the crane, to place it in required position and have decided to use E -60 highway for reversing purpose.</p> <p>Because of permanent line on the E 60 he driven around 2 km from parking area and found suitable place for reversing in Khunevi, near Batching plant N2. After reversing he was already turning back when the crane was</p>

	<p>obstructed by the light vehicle which was driving very slowly and Mr. Jinke have decided to overcome the vehicle and entered opposite traffic line, in that moment he noticed dump truck (plate number SC – 810 SS) was moving in his direction from opposite side and decided to give signal to the dump truck driver by flashing lights, but it was not enough to avoid the contact with dump truck. Contact caused damage to the both equipment.</p> <p>Fortunately, incident did not cause any personal injuries.</p>
<p>ACCIDENTS (short description)</p>	
03.06.2021	<p>3 of June 2021 around 10:00 am, accident occurred on N 7 tunnel site in Kharagauli region, village “Khunevi”. HNRB employee Gela Barbakadze required by his site supervisor to install damaged tunnel ventilation pipe on the wall about 5 m at height from the ground level. Site supervisor did not provide any scaffolding or fall prevention equipment for safe working practice, instead required to use excavator, to stand on a bucket for reaching pipe installation area. After some time during installation process employee realized that excavator bucket starts to disconnect from the main stick of the excavator, there was a high possibility he would fall down on the ground simultaneously with bucket, so in this moment he decides to jump down from height. Employee jumped down about 5 m from height and landed on his right foot causing him injury such as broken heel.</p>
30.06.2021	<p>30 June 2021 around 15:00 pm accident occurred at N13 bridge area (small concrete slab production workshop) near by the village “Vertkvichala”. Employee Giorgi Rikadze was conducting steel wire twisting works by using metal banding machinery, during the working process he hold pack of wires with his right hand and pushed the start button, suddenly he realized that his right hand was stuck between wires. After realizing his hand stucked employee used the physical force to remove right hand from the steel wires which caused scratches and few cuts to his fingers.</p> <p>Employee did not sustained any broken fingers or finger nail injuries during this accident.</p>
20/01/2020	<p>On 20.01.2020 Shalva Paksashvili (Flagmen) was performing his duty nearby batching plant N2 area. His duty was to control safe traffic of HNRB company owned dumper trucks from E60 highway to construction site.</p> <p>Around at 14:30 PM he observed stone fragment on the E60 highway and decided to remove it from the road for safety purposes.</p> <p>He was standing in around 4-5 meters from the highway and waiting for suitable moment while heavy trailer passed in front of him directly over the stone particle and ejected it in direction of flagmen.</p> <p>Ejected stone hit the left leg of the flagmen and caused fracture of bone and laceration of skin on the shin of left leg.</p>

22/06/2020	<p>June 22, 2020 around 16:50 PM on crushing plant construction site which is located nearby "Vertkvitchala" village accident occurred and two company workers sustained physical injuries, before accident occurred two workers where installing parts on a crushing plant dust collector bins, after installation of the different parts on the metal structure, workers where required by site supervisor to go on an upper level of the supporting structure for fastening steel bolts and nuts on some places.</p> <p>While workers where conducting their duties, suddenly whole metal structure started to collapse, workers for that moment where stationed around 3m on height from the ground level, during collapse of the metal structure workers also fall down simultaneously and where crashed by the weight of the metal parts.</p>
21.07.2020	<p>On 21.07.2020 company employee Davit Barbakadze (surveyor engineer) was working at tunnel N10 site, he was stationed on a third level of the tunnel working platform and start marking locations for drilling team on the tunnel face. During marking of the tunnel rock face, suddenly part of the rock fell from above and fall down on a same level about 2 m away from the employee.</p> <p>Mr.Barbakadze to avoid contacted with heavy object start moving backward for safety but unintentionally fall down from unprotected platform edge to the ground level.</p> <p>Employee suffer a head injury (broken head), and scratches on a body (hand, face).</p>
14.09.2020	<p>September 14, 2020 company employee Giorgi Khareishvili was working nearby tunnel N10 site, he and other employees wear storing, loading/unloading tunnel steel ribs on indicated location.</p> <p>After some time during working process, Mr.Khareishvili decided to take a short break, and set down on a nearby stored pile of steel ribs, suddenly one of the steel ribs which was not stored and secured properly slipped down and fall on his left leg heel area.</p> <p>Employee suffer minor cut and scratches to his left leg.</p>
13.08.2019	<p>13-th of August HNRB employee Mr.Kobaladze (rebar worker) with his fellow coworkers was working nearby Tunnel #4,during lunch time they decided to take lunch break beside river "DZIRULA".</p> <p>Around 13:30 pm while employees having lunch, suddenly Mr.Kobaladze felt strong pain on his right hand palm area, as described by injured employee he</p>

	<p>was bitten by gray colored snake.</p> <p>Mr.Kobaladze as describe by doctors did not sustained bites from poisonous snake, because he had not have symptoms such as fever, headache or swelling around palm area.</p> <p>Injured employee was given by doctor anti snake venom medical treatment and released from hospital for home treatment.</p>
28.10.2019	<p>28-th of October of this year, on bridge #9 construction site eight (8) HNRB rebar installation workers were performing their duties, specifically performing steel rebar installations for the bridge abutment.</p> <p>As a working platform for this tasks they wear using temporary tubular type scaffolding and Mobile Crane (TO-325 NA) for delivery long rebar's to the location about 21m above ground level.</p> <p>Around 16:00 pm four (4) pieces of rebar's were attached to the web sling and lifted directly to the top level of the abutment, during lowering activities one of the rebar slide out from the web sling and fall down on workers left leg hip area.</p> <p>Worker during accident was located on the third level of the scaffolding platform area but he was not able to avoid contact with fallen heavy load because platform area where he was standing was not fully planked, and he had very restricted space for movement.</p>
28.11.2019	<p>On 28.11.2019 second shift night driver Ramaz Kurtanidze came to the HNRB office at 6:00 PM and started performing his duty. Initially he was operating company owned pickup and driving to different locations of the project area.</p> <p>Approximately after 3 hours of driving, he got a phone call from his supervisor and been asked to come back to main camp office to drive differant car (Toyota Camry .Plate number HN468RB). After he carried on his duty on above mentioned vehicle without taking brake. Around at 5:00 AM next morning when he was driving by village" SURAMI" section of E60 highway he fall a asleep during driving and lost control over the vehicle.</p> <p>Due to this circumstances, vehicle intersection on the opposite side of the highway and collided with heavy trailer truck.</p> <p>Accident caused severe injuries to the HNRB driver (no passengers in the vehicle).</p>

	<p>Traffic police and local emergency service arrived at scene of incident after few minutes.</p> <p>First aid has been administrated to the injured person by emergency service personal, employee was transported to the “KHASHURI” city hospital for the further medical examination and treatment.</p>
17.12.2019	<p>On 17-th December at 18:30 pm at construction site Tunnel #4 one of the employees (chines) fall from heights and sustained body injuries.</p> <p>During visual inspection of the accident area and platform it has been identified that :working platform not build according to standards, no guardrail systems installed inside or outside perimeters of platform, unsafe access/egress identified, unsafe electrical appliances identified, working platform in a poor conditions and partly some of the flooring removed completely, poor housekeeping on platform levels, floor perimeters obstructed with different types of construction materials, to many floor openings identified on platform levels.</p> <p>All those unsafe conditions lead to circumstances when injured employee stationed himself on a left side of the third level of the platform, he ignored unsafe conditions and not used additional precaution like fall protection harness, stationed himself very close to unprotected edge of the platform, unintentionally lost balance and fell down about 6 m between tunnel and platform wall in a trench.</p>
<p>NEAR MISSES (short description)</p>	
25.06.2019	<p>On 25-th June of this year around at 5 pm near the entrance of camp site dump truck operator dumped stone materials on site, after emptying truck operator drive forward with open cargo and unintentionally made contact with(10kw) OHPL which is located directly over entrance of the main camp.This event did not cause any personal injuries or damaged to equipment because OHPL wear not under voltage due to ongoing maintenance reasons from line owners side.</p>

14.11.2019	<p>14-th of November around 10:30 am site security representative on duty called and informed office management/HSE team that during perimeter patrolling it has been identified small fire in the forest on another side of the river.</p> <p>HSE team rushed to the incident area for assistance and investigation purposes and identified that site supervisor and employees were already mobilized to extinguish small forest fire via water, fire extinguishers and shovels.</p> <p>No operation in progress or any construction activities identified on incident area, but as HSE team took closer look of the incident area it has been identified that on another side of the river "Dzirula" most probably someone from HNRB employee(s) ignited fire beside the riverbed for heating purposes and afterwards left uncontrolled fire without extinguishing it.</p> <p>Incident site survey and assessment of the weather conditions give clear picture that fire transferred to the forest because of strong windy conditions that day.</p>
	<p>LTI (LOST TIME INJURY) (short description)</p>
4.08.2019	<p>Mr.Lomidze fall and landed on a small tree below and after on the ground with his back, injuring his third bone in spine as verbally described later in Kutaisi hospital by doctors.</p>
28.10.2019	<p>Mr.Shukakidze (rebar worker) sustained broken left leg and multiply wounds.</p>
17.12.2019	<p>Mr.Zongfu tTian fall from unprotected platform in tunnel #4, approximately from 6 m height. He suffered multiply head and body injuries.</p>
13.08.2019	<p>Mr.Kobaladze sustained snake bite on his hand, he was transfer to local hospital for treatment .</p>
30.08.2019	<p>Mr.Tabatadze sustained hand injury by fallen wooden material.</p>
28.11.2019	<p>Mr.Kurtanidze fall asleep during driving and sustained body injuries from car crash accident.</p>

20/01/2020	Shalva Paksashvili (Flagmen) was injured and sustained broken leg. Ejected stone from the main highway hit the left leg of the flagmen and caused fracture of bone and laceration of skin on the shin of left leg.
22/06/2020	<p>During assembling of the dust collector bin for the stone crusher plant two company employees wear injured, structure collapsed while employees wear stationed under and fastening the metal bolts. Suddenly structure collapsed and injured two workers.</p> <p>Worker Nukri Lomidze sustained head and face injuries.</p> <p>Worker Mirza Bolkvadze sustained minor bruises on a body.</p>
21.07.2020	Company employee Davit Barbakadze (surveyor engineer) sustained head and face injuries.
14.09.2020	Company employee Giorgi Khareishvili sustained cut and scratches to his left leg heel area.
03.06.2021	HNRB employee Gela Barbakadze during accident sustained broken foot heel area.
30.06.2021	HNRB employee Giorgi Rikadze during accident sustained scratches and cuts to his right hand palm area.
	FIRS AID
09-12.2019	All minor first aid treatments registered by HNRB medical team.

Annex 7: Hazardous Waste Transfer Notes

3/9/2021

დანართი II: სახელთა ნარჩენების ტრანსპორტირების ფორმა

დანართი II: სახელთა ნარჩენების ტრანსპორტირების ფორმა

№ 1059069150

1. ვარჯიში

კომპანია	საკონტაქტო პირი	მისამართი: ტელეფონი
შპს ბენზინის გზებისა და ხიდების სამშენებლო კვლევი კომპანიის ფაბრიკა საქართველოში	01024007624 - ლევან ინაშვილი	საქართველო, იმერეთი, მარჯაოლის რაიონი / 06559119999

2. მიწვევა

კომპანია	საკონტაქტო პირი	მისამართი: ტელეფონი
შპს "სანადგარი"	01024005541 - ლევან კორძეულია	საქართველო, ქვემო ქართლი რეგიონი, რუსთაფი ვ. იმორჯვენიძის ვ. რ. ტყეციელი შ.პ. / 092599283120

3. დატვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი: ტელეფონი
შპს ბენზინის გზებისა და ხიდების სამშენებლო კვლევი კომპანიის ფაბრიკა საქართველოში	01024007624 - ლევან ინაშვილი	საქართველო, იმერეთი, მარჯაოლის რაიონი / 06559119999

4. ვადამატვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი: ტელეფონი
შპს "სანადგარი"	01024005541 - ლევან კორძეულია	საქართველო, ქვემო ქართლი რეგიონი, რუსთაფი ვ. იმორჯვენიძის ვ. რ. ტყეციელი შ.პ. / 092599283120

5. ვადამზიდველი №1

კომპანია	საკონტაქტო პირი	მზიდველი	მისამართი/ ტელეფონი	დეტონატრანსპორტი საშუალების რეგისტრაციის ნომერი	ტრილეერის რეგისტრაციის ნომერი	სარკინოებო ვადამზიდველი №
Samsay	01025005541 - ლევან კორძეულია	24001008647 - მესო ინაშვილი	092599283120	06635YY		

6. ვადამზიდველი №2

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი	დეტონატრანსპორტი საშუალების რეგისტრაციის ნომერი	ტრილეერის რეგისტრაციის ნომერი	სარკინოებო ვადამზიდველი №

ტრანსპორტირება


7. №	8. ნარჩენის კოდი	9. ნარჩენის დასახელება	10. იდენტიფიკაციის კოდი
13.02.06*		შიშვანი და ქიმიკატები ვადამზიდველის სასაწყობო უბანში და სხვა ზეობაში აღუზიარებელი	9800

დადასტურება:

11. ნარჩენები ვადამზიდველის	12. ნარჩენები მიიღო ვადამზიდველმა	13. ნარჩენები ვადამზიდველს მიიღეს	14. ნარჩენები მიიღო ვადამზიდველის განაყოფის მისამართი
თარიღი: დრო 09.03.2021 09:00:00	თარიღი: დრო	თარიღი: დრო	თარიღი: დრო
გამწვანების სტამბა	ვადამზიდველის სტამბა	ვადამზიდველის სტამბა	მიმღების სტამბა

დანართი I: სახიფათო ნარჩენის საინფორმაციო ფურცელი

№ 1059069150

სახიფათო ნარჩენის კოდი 13 02 06*		სახიფათო ნარჩენის დასახელება ძრავისა და კლიბანური გადაცემის კოლოფის სიმთვრელი ზეთები და სხვა ზეთოვანი დუბრიკანტები	
სახიფათო თვისებები	კლასიფიკაციის სისტემა	II კოდები	სამ მნიშვნის კლასი
	ძირითადი	H 2	„მკენე“ – წვთიერებები და პრეპარატები, რომელთა შესუნთქვა, ჩაყლაპვა ან ანტი მედიკალიზაცია გამოიწვევს საშიშროებას
	დაბატონება	H 6	„ტოქსიკური“ – წვთიერებები და პრეპარატები (მათ შორის, მკვლავ ტოქსიკური წვთიერებები და პრეპარატები), რომლებიც შესუნთქვის, ჩაყლაპვის ან კანში შეღებვის შედეგად შეიძლება გამოიწვიოს სერიოზული, მკვდარი ან ქრონიკული დაზიანება ან სიკვდილიც კი გამოიწვიოს
პროცესისა/საქმიანობა, რომლის შედეგად წარმოიქმნება სახიფათო ნარჩენები	სამშენებლო ტექნიკის იზორირება		
ფიზიკური თვისებები	<input checked="" type="checkbox"/> თხევადი	შენიშვნა	
ქიმიური თვისებები	<input checked="" type="checkbox"/> ორგანული	შენიშვნა	
გამოსაქმნელი შედეგების ან კონტეინერის სახეობა სხვა	საშიშროების ნიშნები, რომლებიც გამოყენებული უნდა იყოს შესახებ/ ტრანსპორტირების დროს 		
პირველადი დახმარება სამედიკალიზაციო ადგილმანქანაში	ზომები საგანგებო სიტუაციის დროს 112		