

#3 Semi-annual Report
(Reporting period: January – June 2021)

GEO: Construction of Shorapani – Argveta Section (E60 Highway Route), Lot F4 Project

Financed by: the Asian Development Bank

Prepared by: UBM ULUSLARARASI BİRLEŞMİŞ MÜŞAVİRLER MÜŞAVİRLİK HİZMETLERİ A.Ş. for the Roads Department (RD) of the Ministry of Regional Development and Infrastructure of Georgia (MRDI) and the Asian Development Bank (ADB).

August 2021

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ABBREVIATIONS

ADB	Asian Development Bank
AP	Affected Person
BOD	Bio-Chemical Oxygen Demand
BP	Batching Plant
CAR	Corrective Action Requirement
CAREC	Central Asia Regional Economic Corridor
CC	Construction Contractor
COD	Chemical Oxygen Demand
CLO	Community Liaison Officer
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
HIV	Human Immunodeficiency Virus
HS	Health & Safety
HSE	Health Safety and Environment
IEE	Initial Environmental Examination
IFC	International Finance Corporation
MAC	Maximum Admissible Concentration
MoEPA	Ministry of Environmental Protection and Agriculture
MoESD	Ministry of Economy and Sustainable Development
MoM	Minutes of Meeting
MRDI	Ministry of Regional Development and Infrastructure of Georgia
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 Semi-Annual Environmental Monitoring review of Shorapani – Argveta Section (E60 Highway Route), Lot F4 Construction Project and covers the period of January to June 2021.

2. This report is the third Semi-Annual Environmental Monitoring Report (SAEMR) prepared for the Project.

1.2 Headline Information

3. The Project is a newly built a two-lane highway project with a total length of 14.7 km and involves construction of a new road section of the E-60 highway, namely Lot F4, located in Imereti Region that is one of the main historical, economic, cultural and educational regions of central Georgia. Lot F4 forms the Shorapani – Argveta portion of the Khevi-Ubisa-Shorapani-Argveta section of the E-60. The project involves the construction of 2*6 tunnels, 2*7 bridges, 4 interchanges, 2*1 overpasses, 5 underpasses and 50 culverts. The length of the Project road is given below:

- 1) Right lane (TA – meaning Tbilisi – Argveta direction) - 14.778 km,
- 2) Left lane (AT – meaning Argveta – Tbilisi direction) - 14.726 km

4. The Project alignment is located within Zestaphoni Municipality, which covers a total area of 423 square kilometers and includes the towns of Zestaphoni and Shorapani as well as numerous small villages such as Kveda Tseva, Shorapani, Zestaphoni, Kveda Sakara, Argveta. Besides, the alignment runs through forest areas, agricultural land plots, hilly forest slopes, residential areas and riparian ecosystems.

5. The Project outlines (km 0+000 – 147+000):

- Classification of road: Highway
- Design speed: 100 km/h
- Speed Limit: 80 km/h
- Road length: 14.7 km
- Road width: 27.60 m
- Numbers of lanes: 2x2
- Lane width: 3.75 m

6. The Official Work Commencement Date for the construction is 20th October 2020. The period of implementation of the contract, including the Defects Notification Period and until the issuing of Final Acceptance and Performance Certificate is 60 (sixty) months after the Commencement Date. The construction completion date for the Project is 20th October 2023.

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 Project road comprises Lot F4 (Shorapani – Argveta) of the Khevi-Ubisa-Shorapani-Argveta Road (E-60). The proposed highway is located on the complex hilly-mountainous geographical area and crosses numerous mountain, rivers and ravines. Mixed forests, typical to this climate zone, cover the slopes of the mountains.

8. The alignment is located on the left side of the existing 2-lane road both as exposed road and through two tunnels. The existing 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 proposed highway. The project is classified as Category A Project – Environmental Safeguards under ADB SPS 2009 since it is considered to have significant diverse impacts over a wide area, such as noise impacts, significant quantities of spoil disposal, road safety impacts, and vibration.

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). The length of the Project road is given below:

- 1) Right lane (TA – meaning Tbilisi – Argveta direction) - 14.778 km,
- 2) Left lane (AT – meaning Argveta – Tbilisi direction) - 14.726 km

Figure 1: Location of Project Area



11. The project includes construction of 2*6 tunnels with total length 8506.36 meters, 2*7 bridges with total length of 5020.54 meters, 2*1 overpasses with total length of 84.64 meters, 5 underpasses with total length of 198 meters, 50 culverts with total length of 1552.07 meters and 4 interchanges with total length of 13466 meters.

12. Bridges' length will vary from 32 meter to 846 meter. Tunnels will be constructed with double tubes with length from 399 meters to 1193 meters.

13. Technical parameters 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: 27.60 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

2.2 Project Contracts and Management

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

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 Uluslararası Birleşmiş Müşavirler Müşavirlik Hizmetleri A.Ş. (Turkey) and SMEC International PTY LTD (Australia)
Contractor	Guizhou Highway Engineering Group Co Ltd and China National Technical Import & Export Corporation Joint Venture
Contract Number	SARP/CW/OCB-01
Contract Date of the Contractor	16.01.2020
Starting Date of Construction	20.10.2020
Contract Period	60 months
Original Completion Date	Not announced during reporting period
Expired time	0 month
Remaining time	30 months
Defects Notification Period	24 months
Contract Price (GEL)	GEL 582 777 310.00

15. The TOR for the Consultancy Services for Construction Supervision (CSCS) Contract contains the following tasks to be provided by both national and international environmental specialists:

- Scrutinize Contractor's construction method statement for its compliance with environmental aspects,
- Review and approve Contractor Site Specific EMPs,
- Supervise the Contractor in all matters concerning environmental aspects,
- Monitor compliance with the EMP by the Contractor and issue Non-conformances Reports as needed,
- Review Contractor's Corrective Action Plans,
- Review and approve temporary construction areas use and associated Site Specific EMPs for such sites,
- Assist the Employer in undertaking and monitoring of environmental safeguards,
- Identify and report any environmental issues that may arise during construction to the Team Leader and the Employer,

- Perform regular coordination with the Employer for any matters related to implementation, monitoring and reporting of ADB's safeguards policy.
- Conduct coordination and training workshops on roles and responsibilities on EMP implementation,
- Conduct monitoring activities periodically to verify validity of data collected and methodology used,
- Prepare environmental monitoring reports based on the EMP monitoring and implementation activities (bi-annual reports are required),
- Conduct Post Construction Environmental Audit (PCEA) and preparing the audit report after completion of construction activities.

16. 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), 2.3b (employer's personnel), 4.21 (progress report) are important in this regard.

17. The Contract for CSCS was awarded to UBM for three phases of the project:

- 1) Phase 1: Design review, to be completed in a period of three months and submitted to RD
- 2) Phase 2: Construction supervision and contract administration. The construction period is for 36 months
- 3) Phase 3: Defects Notification Period, 24 months

18. Contact details of ADB (Asian Development Bank), SC (Supervision Consultant), CC (Construction Contractor), and RD (Road Department) representatives are given in Table 2 below:

Table 2: Main Environmental Staff of ADB, CC, SC and RD

Organization	Position	Name	Nationality
ADB	Head Office, Environmental Specialist, Portfolio, Results, Safeguards and Gender Unit (PSG), CWRD	Name: Ninette Pajarillaga Cell: E-mail: npajarillaga@adb.org	
	ADB/RETA International Environmental Safeguards Consultant	Name: Ketu Dgebuadze Cell: +995577232937 E-mail: kdgebuadze.consultant@adb.org; ketdgeb@adb.org	Georgian
	Associate Safeguards Officer Georgia Resident Mission	Name: Nino Nadashvili Cell: +995 595 070442 e-mail: nnadashvili@adb.org	Georgian
RD	Environmental Specialist	Name: Luiza Bubashvili Cell: +9995219141 e-mail: likabubashvili@yahoo.com	Georgian
	Head of Environmental Unit	Name: Gia Sopadze Cell: +10599939209 e-mail: sopia@gmail.com	Georgian

SC	International Environmental Specialist	Gülden Baydar Cell:+905327443051 e-mail:gbaydar@ubm.com.tr	Turkish
	Environmental Expert	Bidzina Peradze Cell:+995599501918 e-mail: bperadze@gmail.com	Georgian
CC	Project Manager	Name: Chen Yuqiang Cell: +995599200396 e-mail: gggg3bc@gmail.com	Chinese
	Environmental Specialist	Name: David Kurdadze Cell: +995595116017 e-mail: d.kurdadze@capto.ge	Chinese

19. 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. Contractor is responsible to:

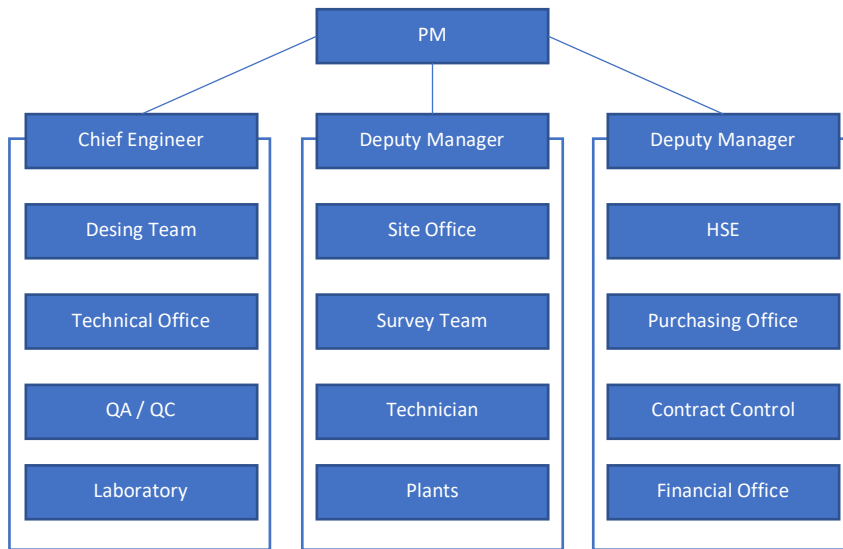
- Establish an operational system for managing environmental impacts,
- Develop the SEMP as well as topic specific EMPs by identifying environmental risks arising from the works, the mitigation measures to be applied, and monitoring to be carried out,
- Implement the required mitigation measures and 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,
- Submit monthly compliance reports to the engineer.

20. Contractor, Guizhou Highway Engineering Group Co Ltd, is responsible for implementation of SEMP throughout the project during construction phase. The Supervision Consultant, UBM (Engineer), is responsible to;

- Monitor the implementation of SEMP by the Contractor at all its active construction sites and project related facilities,
- Prepare monthly and semi-annual Environmental Monitoring reports for the Employer based on the SEMP monitoring and implementation activities.

21. Responsibility of daily management for environmental monitoring and implementation of the SEMP is given to the HSE Manager, Mr Du Jun. 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 Guizhou Highway Engineering Group Co Ltd is provided in Figure 2 below:

Figure 2: Contractor Project Management Staff



22. Contractor revised organization chart for Health, Safety, Environmental and Social management as shown in Figure 3. According to new management structure, Community Liaison Officer (CLO) directly reports to the Project Manager of the Contractor. Moreover, the Contractor appointed a Traffic Officer during this reporting period to organize and regulate equipment and traffic relevant issues. The team is responsible for implementation, supervision, and monitoring of the activities on-site.

Figure 3: Contractor’s H&S, Environmental and Social Organization Chart



2.3 Project Activities during Current Reporting Period

23. Table 3 summarizes construction activities being undertaken during this monitoring and reporting period at different sections of the Project.

Table 3: Project Activities

Area	Activity
KM 0+00-KM 2+00	Cutting of trees

KM 0-KM 9+93	Construction works for the local road N3 ch3+785
KM 6+20-KM 7+80	Site survey, Removal of top soil, loading and transportation for re-use. Excavation of soft material by excavator in cut and transport to disposal area.
Interchange 1	Concrete pouring of temporary protective barriers. Temporary protection pier formwork and Concrete pouring. Access road construction of No. 3 tunnel. Warehouse construction
Interchange 2	Removal of topsoil, loading and transportation for re-use. Repair the access road of No.4 Bridge. Support formwork for car wash pool of No.2 spoil ground. Construction of garage. Level and clean up the site.
KM 34+00	Construction of access road of No.3 tunnel.
KM 46+00-KM 56+00	Cutting of trees.
KM 85+00-KM 86+00	Construction of affiliated facilities in the second working area
KM 84+00-KM 86+00	Construction of affiliated facilities in the concrete batching plant No2
KM 82+30-KM 82+60	Cut & cover excavation for tunnel N5. Construction of vertical micro-piles.
KM 82+59-KM 85+00	Excavation of rocky soil by excavator mounted hydro hammers and disposal to disposal area Air compressor installation, Weighbridge construction.
KM 84+00-KM 86+00	Filling construction
KM 90+00-KM 93+00	Geological survey
KM 137+00-KM 145+00	Removal of topsoil, loading and transportation for re-use Construction of ditches in soft soils mechanically including all ancillary works, loading and disposal to disposal area
Steel Bar Processing Plant	Assembling of reinforcing cages for pile foundation of Bridge NO.4
No.2 Spoil area	Construction of car wash basin at disposal area #2. Concrete pouring for access road
4232 Culvert	Excavation and lean concrete placement for culvert foundation. Installation of steel reinforcement (A-500 class) cages and formwork, casting of C25/30 XC2 concrete for the culvert's body
4233 Culvert	Excavation in soft soil mechanically for construction of new culverts, piling in situ Removal and disposal of construction

	waste Excavation for the culvert foundation.
No.4 Bridges (AT and TA)	AT, Abutment #1 – excavation and construction of pile foundation with drilling rig Setting out of piers ## 2 and 3 of AT and TA bridges AT, Pier #4 – excavation for the pile foundation TA, Pier #5 - drilling and casting of piles TA, Pier #5 – construction of pile PP23 Mechanical excavation of soil and its removal to the dumpsite
Tunnel 2	Tunnel excavation in VIII cat soil with excavator-mounted hydraulic hammer and removal of excavated material.

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

Table 4: Construction Progress during Reporting Period

Row	Description of Main Activities	% W.F.	Progress	Cumulative progress till May	Cumulative progress for April	Progress in May
1	Bill No 1. General Items	0,00%	Actual			0,00%
			Planned			0,00%
2	Bill No 2. Setting Out and Site Clearance	0,23%	Actual	0,00%	0,00%	0,00%
			Planned	84,00%	62,18%	21,82%
3	Bill No 3. Earthworks	4,21%	Actual			0,00%
			Planned	6,73%	5,80%	0,93%
4	Bill No 4. Culverts and Drainage	1,31%	Actual			0,00%
			Planned	10,43%	1,04%	9,39%
5	Bill No 5. Bridges and Overpasses	46,00%	Actual			0,00%
			Planned	0,44%	0,09%	0,35%
6	Bill No 6 & 7 Tunnels	36,49%	Actual			0,00%
			Planned	0,32%	0,10%	0,22%
7	Bill No 8. Road Pavement	4,07%	Actual			0,00%
			Planned			0,00%
8	Bill No 9. Road Furniture	3,42%	Actual			0,00%
			Planned			0,00%
9	Bill No 10. Interchanges	1,81%	Actual			0,00%
			Planned	6,55%	1,89%	4,66%
10		0,94%	Actual			0,00%

	Bill No 11. Relocation Of Utilities		Planned	37,31%	13,10%	24,21%
11	Bill No 12. Greenery	0,55%	Actual		0,00%	0,00%
			Planned		0,00%	0,00%
12	Bill No 13. Retaining Walls	0,47%	Actual		0,00%	0,00%
			Planned		0,00%	0,00%
13	Bill No 14. Lighting	0,43%	Actual		0,00%	0,00%
			Planned		0,00%	0,00%
14	Daywork	0,05%	Actual		0,00%	0,00%
			Planned	22,67%	19,22%	3,45%
Overall Progress of the Project		100,00%	Actual	0,0%	0,0%	0,0%
			Planned	1,41%	0,65%	0,77%

25. In December 2020, the Contractor, in direct agreement with the representatives of the Imereti Region Forestry Department, started the process of removing trees and plants within the framework of the Project. Tree cutting and vegetation clearance activity is being carried out by the subcontractor. The affected tree cutting area belongs to State Forest Fund (SFF) and the respective permits have been obtained from National Forest Agency (NFA). In addition to that for cutting of red list species coming in RoW, the approval has also been granted by Ministry of Environmental Protection and Agriculture (MoEPA).

26. Before starting of works, forestry representative, the engineer and the contractor surveyor team defined the buffer (red line) zone. During this process, it is found that areas from PK 0+00 to PK 2+00 section (namely, the areas for the first and second tunnel portals as well as the areas for the first bridge) were missing at the initial design and description time. Together with the Contractor's team and the representatives of the Zestafoni Municipality Forestry Department, the section and the materials to be removed were redefined.

27. Based on initial project data, there were more than 8cm (1428 individuals) and less than 8 cm (6008 individuals) to be cut across the entire section. According to the new data prepared in February, 6th 2021, more than 8cm (1546 individuals) and less than 8 cm (18177 individuals) were added by recording the section from PK 0+00 to PK 2+00. New inventory was submitted on February, 20th, 2021, through the formal letter (20210220-0011-GHEC-UBM).

28. Permission has not been obtained for cutting red list trees yet and cutting operation has not been started for red list trees. During the reporting time, approximately 60% of the tree cutting process has been completed for other trees not fallen into the red list category. Cut down trees have been stored in designated areas.

2.4 Information on Personnel Working at Construction Site

29. Overall personnel hired by Contractor as of May, 31th, 2021 is summarized below and Table 5 shows detail information about personnel working at site.

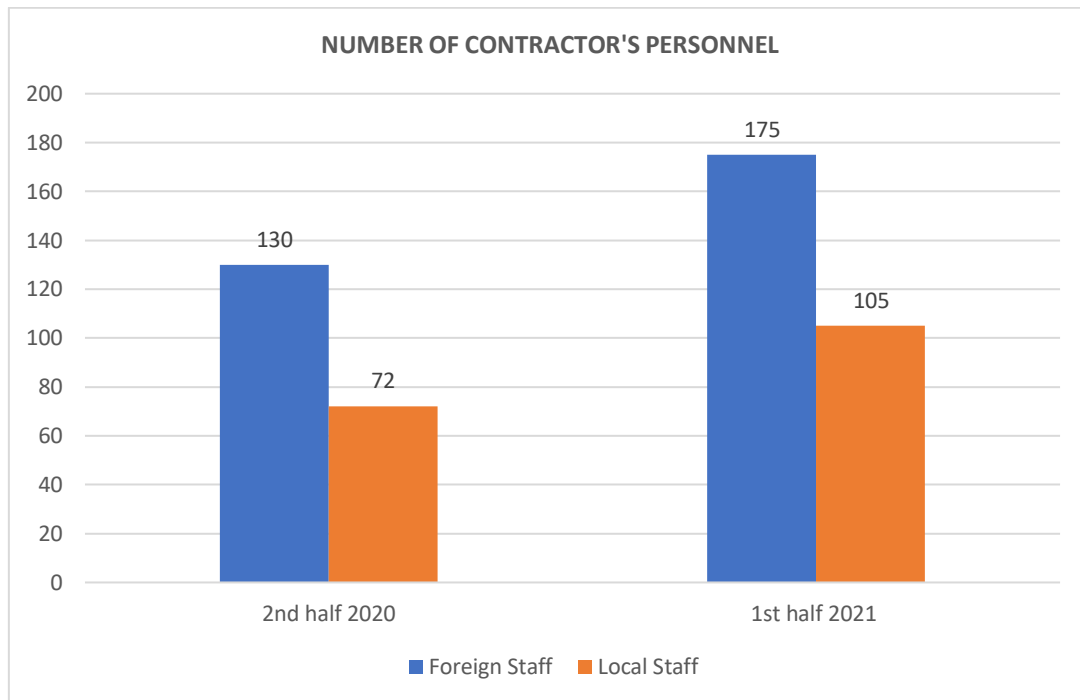
- Total number of employees: 280
- Management, Administration and Technical Staff: 175 Foreigner +105 Local
- Workers, Skilled Workers, Foremen, Drivers, Operators: 176

Table 5: Information of Personnel Working at Site

Human Resources	Persons
Project Manager	1
Administration	17
Quality Control	3
Technical Officer	28
Site Manager	4
Site Engineer	18
HSE	3
Surveyor	7
Foreman	6
Operators	30
Drivers	16
Garage & Camp Facilities	4
Plant Operators Plant Operators and Labors	4
Mess Hall	15
Skilled Workers	75
Unskilled Workers	49
Security	10
Flagmen	13
Total	303
Average Man Power (AMP)	301

30. The graphical presentation of number of foreign and local staff hired by Contractor is shown in the Figure 4. Total number of the Contractor's staff is increased by 39% compared to 2nd half of 2020 within this reporting period.

Figure 4: Contractor's Manpower as of May, 31



2.5 Description of any Changes to Project Design

31. There is no change in project design during the reporting period; however, the Contractor submitted a variation proposal of Tunnel 6 due to geological conditions (April 22, 2021, Ref 20210422-017-GHEC-UBM). The contractor proposed to change the initial design to an open excavation roadbed. On April 1, 2021, RD, Engineer and Contractor jointly inspected the site and a meeting was also held regarding this between the RD, Engineer and Contractor on April, 7, 2021 accordingly to evaluate and to discuss the proposal. RD demanded from the Contractor to prepare the cost and time impact report. Proposal is still under discussion and any design change will be presented in the 4th semi-annual environmental monitoring report.

2.6 Description of any Changes to Agreed Construction Methods

32. There are no changes to the agreed construction methods approved during the reporting period.

3. ENVIRONMENT SAFEGUARD ACTIVITIES

3.1 General Description of Environment Safeguards Activities

33. During this monitoring period, Engineer's local Environmental Specialist Mr. David Gagoshidze resigned and Mr. Bidzina Peradze was assigned in May, 2021 as local Environmental Specialist to check the environmental impacts caused by the construction activities and the compliance with the requirements of EIA, SEMP and conditions of contracts.

34. During this reporting period, the Engineer has not issued any NCR (Non-Conformance Report) to the Contractor. In case of any non-conformance is detected (with the photo evidence) it has been recorded and the Contractor has been informed in written through inspection reports to take corrective actions. Since the Contractor has implemented required measures in time effectively, none of the non-conformity has been turned into a NCR.

35. The Engineer's environmental specialists prepare the monthly and semi-annual reports to be submitted to the RD. These reports depict the ongoing construction activities, environmental issues, health and safety issues, grievance status, implementations of mitigation measures defined in EIA and the status of compliance.

36. Environmental specialist of the Contractor and national environmental specialist of the Engineer are conducting regular site visits to monitor the compliance of EMP. However, Engineer's international environmental specialist has not made a site visit during the reporting period due to pandemic of COVID-19. In addition to that, HS specialists of the Contractor and Engineer are monitoring the compliance of PPEs, traffic safety and the other safety related issues.

37. Grievance Redress Mechanism (GRM) and HSE logbooks are being maintained by engineer's social team and contractor's HSE team respectively. However, these good practices need to be maintained on continual basis.

38. Construction Contractor's Consultant in occupational health and safety, social and environmental issues is Capto BMG LLC.

3.2 Site Audits

39. Frequent site visits were carried out by the environmental expert of the Engineer, Mr. Bidzina Peradze, to the following sites:

- Office sites,
- Camp areas,
- Access roads,
- Concrete batch plant 1 & 2,
- Cutting of trees,
- Topsoil Stripping,
- Interchange 1 & 2,
- Construction of Access Road for Tunnel 3,
- Tunnel 2 & 3 Portals
- Steel Bar Processing Plant.

40. International environmental expert of the Engineer, Ms. Gülden Baydar, has never made any site visit during this reporting period (January to June) due to Pandemic of COVID-19. While local environmental specialist performs frequent site visits, monitors compliance with the EMP on place and issues any non-conformaty through reports, international environmental specialist mostly reviews documents coming from sites, checks requirements according to progress of the activity and performs regular coordination with the teams. Close and frequent communication between specialists provides monitoring of implementations, coordination among the parties and teams for any matters related to implementation, monitoring and reporting of environmental requirements. This semi-annual environmental monitoring report has been prepared in the light of information gathered from the review of the documentation received, communication with project's parties, inspection reports, monthly progress reports, and weekly construction minutes of meetings (MoMs).

41. The method adopted for inspection includes visual inspection, interview with workers, review of permits obtained, daily quality control reports and monthly reports.

3.3. Issues Tracking

42. Identified HS&E non-conformities occurred in work sites were issued to the Contractor through inspection reports (Annex 2) by the Engineer to take corrective actions. Issues raised, required mitigation measures, corrective actions taken and current status of actions are presented in the Table 6.

Table 6: Identified Corrective Action Requirements

#	Location	Date	Issue Raised	Mitigation Required	Estimated Time	Corrective Action Taken	Status of Action
1	Camp no 5	Jan, 15, 2021	Excavation does not have protective guardrails/fence	Protective guardrails/ fence must be used	Jan, 22,2021	Guardrails were installed around the reservoirs	Closed
2	Main Camp	Jan, 15, 2021	Drainage lattice located front of the canteen area is broken	Drainage lattice must be renewed or repaired	Jan, 22,2021	Broken drainage lattice was fixed	Closed
3	Accommodation Camp/Office	Jan, 15, 2021	Office video surveillance cables are broken	Repair of cable	Jan, 22,2021	Cable was renewed	Closed
4	Concrete Plant №2	Jan, 20, 2021	Generator cover box is built with wood material and there is a possibility that fire will start from the exhaust pipe	Wooden material must be removed	Jan, 27,2021	Wooden material was removed	Closed
5	Concrete Plant №1	Jan, 20, 2021	Oxygen tanks are left outside, unattended, scattered in the water	Oxygen tanks must be placed in the special stands, in a vertical position	Jan, 20,2021	Oxygen tanks were placed in a vertical position	Closed
6	Access Road №1	Jan, 20, 2021	Electrical cable is scattered on the ground, unattended	Electrical cable must be raised	Jan, 27,2021	Cable is raised and fixed at appropriate, safe height	Closed
7	Concrete Plant №1 Accommodation Camp №3	Jan, 29, 2021	Welders are working without wearing special, not-flammable protective clothing: welding jackets and gloves	Special clothes are ordered.	Mar, 18, 2021	Welders were provided not-flammable protective clothing	Closed
8	Concrete Plant №1 Accommodation Camp №3	Jan, 29, 2021	Wooden material waste must be removed from the territory, they are flammable/fire causing hazard	Wooden material stored in the territory must be stored out of the territory	Feb,07, 2021	Wooden material was carried out of the territory	Closed
9	Concrete Plant №2	Jan, 29, 2021	Territory must be paved with the concrete / concrete road must be laid	Concrete road must be laid	Feb,20, 2021	Territory was paved with the concrete	Closed

10	Concrete Plant №2	Jan, 29, 2021	Oxygen tank is left outside, unattended, scattered on the ground	Oxygen tanks must be placed in the special stands, in a vertical position	Jan, 29, 2021	Oxygen tanks was placed in a vertical position	Closed
11	Concrete Plant №2	Jan, 29, 2021	Armature rods that are sticking out must be cut off	Armature rods were cut and cleaned	Feb,07, 2021	Armature rods were cut and cleaned	Closed
12	Concrete Plant №2	Jan, 29, 2021	Territory must be fenced	Territory must be fenced	Feb,27, 2021	Territory of BP2 was fenced	Closed
13	Concrete Plant №2:	Jan, 29, 2021	Protective guardrails must be installed around the excavation area	Protective guardrails must be installed	Feb,07, 2021	Protective guardrails were installed	Closed
14	Access Road №3	Jan, 29, 2021	Fence must be installed on the side of the road	Fence installation is required	Feb,27, 2021	Fence was installed	Closed
15	Camp No 5	Jan, 29, 2021	Fence and gate requirement for the territory of the camp	Fence and gate must be installed on the territory	Feb,27, 2021	Fence and gate installation was completed	Closed
16	Interchange №2	Feb, 22, 2021	Welders are working without wearing special, not-flammable, protective welding jackets	Clothes are ordered for welders.	Mar,18, 2021	Welders were provided not-flammable protective clothing	Closed
17	Interchange №2	Feb, 22, 2021	Hazardous waste produced from welding slag and angle grinder is scattered on the territory	Hazardous waste bin/ container is required	Feb,29, 2021	Hazardous waste bin/ container was provided	Closed
18	Interchange №2	Feb, 22, 2021	Electrical enclosure box's door is unlocked	A person responsible with keys and locking of box door	Feb,29, 2021	A person was assigned responsible for the keys. Electrical box has appropriate safety sign placed on it	Closed
19	Camp №1	Feb, 22, 2021	High voltage electrical distribution box must be fenced	Fencing is required for high voltage electrical distribution box	March,16, 2021	Fence is installed with appropriate signs	Closed

20	Camp №1	Feb, 22, 2021	Metal waste is scattered on the territory.	Metal waste must be taken out of the territory on time	Feb,29, 2021	Metal waste was taken out of the territory	Closed
21	Camp №1	Feb, 22, 2021	Protective handrails must be installed on the camp stairs	Installation of handrails is required	Mar,30, 2021	Protective handrails was installed	Closed
22	Camp №5	Feb, 22, 2021	Electrical cable is above the ground, unprotected	Electrical cable must be raised at appropriate , safe height	Feb,29, 2021	Cable is raised and fixed at safe height	Closed
23	Camp №5	Feb, 22, 2021	Fallen security booth door must be reinstalled/fixd	Fixation of fallen security door is required	Feb,29, 2021	Fallen security booth door was fixed	Closed
24	Camp №5	Feb, 22, 2021	Fence and gate must be installed on the territory	Fence and gate installation is required	Feb,29, 2021	Installation of Fence and gate were completed	Closed
24	Concrete Plant №2	Feb, 22, 2021	Protective guardrails must be insttaled around excavation area	Protective guardrails installation is required	Feb,29, 2021	Protective guardrails were insttaled	Closed
25	Interchan ge №1	Mar, 03, 2021	Welding apparatus cables are damaged	Cables must be renewed	Mar, 10, 2021	Cables were renewed	Closed
26	Interchan ge №2	Mar, 03, 2021	Electrical cables are on the ground	Electrical cable must be raised at appropriate , safe height	Mar, 10, 2021	Cable is raised and fixed at safe height	Closed
27	Concrete Plant №2	Mar, 03, 2021	Protective guardrails must be installed around the excavation are	Installation of protective guardrails is required	Mar, 10, 2021	Installation were completed	Closed
28	Concrete Plant №2	Mar, 10, 2021	Excavation does not have protective guardrails/fence	Protective guardrails/fence must be used	Mar, 16 2021	Guardrails were installed around the reservoirs	Closed
29	Concrete Plant №2	Mar, 10, 2021	Territory must be fenced	Fence installation is required	Mar, 16 2021	Installation was completed	Closed
30	Camp №3	Mar, 10, 2021	There are no fire extinguishers placed	Fire extinguishe rs must be in place	Mar, 16 2021	Fire extinguishers are be in place	Closed
31	Camp №5	Mar, 10, 2021	Angle grinder does not have protection	Protection is required for user	Mar, 16 2021	User is advised to use a	Closed

						protection and provided a protection	
32	Camp №3	Mar, 18, 2021	Fire extinguishers must be placed on the camp territory	Enough number of fire extinguishers must be provided	Mar, 25, 2021	Fire extinguishers are in place	Closed
33	Tunnel №2	Mar, 18, 2021	Training has not been conducted for the flagmen.	Job specific training must be organized	Apr, 23, 2021	Training is provided for each of flagmen	Closed
34	Interchange №2	Mar, 29, 2021	Area next to the generator gets filled/flooded with rain water	Water must be drained and territory must be graveled	Apr, 06, 2021	Territory is graveled	Closed
35	Batching Plant №2	Mar, 29, 2021	Oxygen tank is left outside, unattended, scattered on the ground	Oxygen tanks must be placed in the special stands, in a vertical position	Mar, 29, 2021	Oxygen tanks are placed in a vertical position	Closed
36	Second Tunnel Beginning Portal	Mar, 29, 2021	Flagman with appropriate training must be standing at the entrance of the portal to guide traffic movement	Flagman is required job specific training	Apr, 23, 2021	Training is provided	Closed
37	Batching Plant №2	Apr, 05, 2021	Electrical cables are scattered around on the ground, in the mud	Electrical cable must be raised at appropriate, safe height	Apr, 05, 2021	Cable is raised and fixed at safe height	Closed
38	Camp №5	Apr, 12, 2021	There are no COVID-19 informative signs, soap and hand dryers provided on the camp territory	COVID-19 measures must be implemented	Apr, 17, 2021	Signs, soap and hand dryers were provided	Closed
39	Interchange №2:	Apr, 12, 2021	There is no appropriate hand washing station organized on the territory, with COVID-19 informative signs, soap and hand dryer	COVID-19 measures must be implemented	Apr, 30, 2021	Hand washing station was organized with signs, soap and hand dryers	Closed
40	Interchange №2	Apr, 12, 2021	Electrical wiring and using	Damaged electrical cables	Apr, 17, 2021	Cables were renewed	Closed

			damaged electrical cables	must renewed/repaired			
41	Interchange №2	Apr, 20, 2021	Electrical cables are scattered around on the ground, in the water	Electrical cable must be raised at appropriate , safe height	Apr, 22, 2021	Cable is raised and fixed at safe height	Closed
42	Batching Plant №2	Apr, 20, 2021	Some of the workers working in construction area do not wear safety shoes	Workers must be warned and shoes must be provided	Apr, 25, 2021	Workers are provided shoes	Closed
43	Batching Plant №2	Apr, 20, 2021	Homemade scaffolding is not allowed to use	Scaffolding must be industrially made and certified;	04, May, 2021	Industrially made scaffolding was provided	Closed
44	Interchange №2	Apr, 23, 2021	Electrical cables are scattered around on the ground, in the water	Electrical cable must be raised at appropriate ,safe height	Apr, 23, 2021	Cable is raised and fixed at safe height	Closed
45	Interchange №2	Apr, 23, 2021	Hand washing area is not in compliance	Hand washing station must be properly equipped with a sink, liquid soap and information on Covid-19	May, 16, 2021	Hand washing station was organized with signs, soap and hand dryers	Closed
46	Interchange №2	May, 10, 2021	Electrical cables are scattered around on the ground	Electrical cable must be raised at appropriate ,safe height	May, 12, 2021	Cable is raised and fixed at safe height	Closed
47	Interchange №2	May, 10, 2021	Metal waste collecting/storage area must be fenced	Fence installation is required for metal scrap storage area	June, 05, 2021	Fence installation is completed	Closed
48	Interchange №2	May, 10, 2021	The excavation area must be fenced with protective guardrails	Guardrails for excavation is required	June, 06, 2021	Guardrails installation is completed	Closed
49	Interchange №1	May, 17, 2021	50 liters portable fire extinguisher must be placed by the diesel reservoir	Fire extinguisher is required for the	June, 02, 2021	Fire extinguisher is in place	Closed

				diesel reservoir			
50	Interchange №2	May, 20, 2021	Diesel generator is placed on the ground without a drip tray	Drip tray is required to put under generator.	Jun, 30, 2021	Drip trays are ordered	On-going
51	Tunnel #3, Portal	May, 20, 2021	During drilling of tunnel portal, spoiled soil and rocks are falling in to the River Borimela	All disposed material should be removed and river bank, protection should be made	Jun, 30, 2021	Materials were removed. For permanent protection, silt fence or similar will be provided.	On-going
52	Interchange №2:	May, 20, 2021	Concrete washout on the ground	Concrete must be clean and if necessary additional washout pit must be constructed	May, 27, 2021	Washout was cleaned and drivers were informed.	Closed
53	Batching plant №2	May 24, 2021	Violating electrical safety rules. Damaged electrical cables scattered on the ground.	Electrical cable must be raised at appropriate ,safe height	May 27, 2021	Cable is raised and fixed at safe height	Closed
54	Interchange №4	May 24, 2021	Excavated trench has not protective railings	Installation of protective railings	June,06, 2021	Installation is completed	Closed
55	Interchange №2	June 2, 2021	Welders are working without special, protective welding apron	Welding apron must be provided for welders	June,18, 2021	Welder aprons is ordered and will deliver next week.	On-going
56	Interchange №2	June 2, 2021	Use of damaged/ broken crane slings	Damaged crane ropes must not be used, must be renewed	June 11, 2021		Open
57	Project Overall	March,9, 2021	Contractor has not started instrumental monitoring and not hired a certified laboratory	Licensed laboratory must be assigned for performing this task, and monitoring must be started for the points determined by EIA	April, 20, 2021	Contractor has hired a certified laboratory dated on 22th April but not started monitoring yet	On-going

58	Project Overall	April, 23, 2021	Contractor has not arranged a hazardous waste area yet	Hazardous waste area(s) must be prepared to store all types of hazardous waste.	June, 1, 2021		Open
59	Project Overall	April, 13, 2021	Contractor has not provided an HIV (Human Immunodeficiency Virus) Awareness Program	Contractor must start awareness program and share relevant documents with the Engineer	June, 9, 2021		Open
60	Project Overall	May, 18, 2021	Contractor has not assigned a permanent medical personnel	Contractor has hired a permanent medical personnel	June, 9, 2021		Open
61	Project Overall	April, 28, 2021	Contractor has not placed any complaint boxes in the main campsites	Contractor must put boxes camps sites and train employees about function of the system	May, 28, 2021		Open
62	Project Overall	April, 29, 2021	Contractor has not posted GRCE's info on the notice boards for community	Contractor must post GRCE's info on the notice boards for community within the scope of GRM	May, 28, 2021		Open
63	Project Overall	March, 9, 2021	Contractor has not kept records of community meetings	Contractor must keep records of community meetings including minutes of meetings, list of participants with signatures, photos of each event with timestamps	April, 8, 2021		Open

43. A sum of sixty-three (63) nonconformities and corrective action requirements accordingly were issued to the Contractor through inspection reports during 3rd monitoring period. Out of sixty-three (63) issues, fifty-two (52) issues were closed and there are eleven (11) corrective action requirements is transferred to next semi-annual report to follow up. The open issues are relevant to (1) provision of a drip tray for mobile generator, (2) river protection and cleaning of spoiled material from Borimela River, (3) welders working without protective welding apron,(4) use of damaged/ broken crane slings, (5) insturmental monitoring, (6) preparation of hazardous waste area, (7) provision of HIV awareness training, (8) assignment of medical personnel, (9) placement of complaint boxes, (10) posting of GRCE's info into notice boards and (11) keeping records of community meetings respectively.

44. Statistics of corrective action requirements in work during reporting period is given in the Table 7. There were zero (0) pending issues from the 2nd semi-annual environmental monitoring report.

Table 7: Summary of Issue Tracking During the Project

Total number of issues for the Project	63
Issues opened this reporting period	63
Issues closed this reporting period	52
Number of open issues	11
Number of closed issues	52
Closed in percentage	82

3.4 Unanticipated Impacts or Risk

45. During this reporting period, unanticipated events of pandemic disease COVID 19 were observed still having significant adverse impacts worldwide causing the delay in the progress works due to lock downs and restricted movements.

46. The contractor prepared a Protective Action Plan against COVID-19 (Annex 3) Occupational Health and Safety Plan, Emergency Response and Preparedness Plan and Specific Environmental Management Plan were updated accordingly for reflection of anti-COVID measures by the Contractor and the plans were approved by the Engineer through official letters Ref: 0490-CSAE60F4-UBM-GE, 0490-CSAE60F4-UBM-GE and 0492-CSAE60F4-UBM-GE respectively. Details of mitigation meauseres being implemented in the Project are summarized in Table 8. Based on this plan and implemented measures, mainly, Contractor has coordinated an awareness campaign, took disinfection measures at sites for workers and implemented social distancing rules. During this reporting period, there has been no COVID-positive cases observed among Project employees.

47. In December 2020, the first dose of a fully tested vaccine was administered. Now, multiple vaccines have been authorized for use around the world and dozens of countries. The vaccine rollout strategy varies from country to country. Vaccination was started in March,15th in Georgia and in the 2nd quarter of the 2021 at the Project area.

48. By reporting day, all Chinese employees were vaccinated. At the same time, the vaccination of Georgian employees has been started and almost 65% of the project's employees have been currently vaccinated.

Table 8: Unanticipated Impacts During the Reporting Period

Impact	Outcome	Start Date	Vaccination Process	Mitigation Measures being Implemented in the Project
<ul style="list-style-type: none"> • Pandemic COVID-19; • COVID-19 is an infectious disease causing fever, cough, fatigue, shortness of breath and loss of smell. Complication may include pneumonia and acute respiratory distress syndrome. 	<ul style="list-style-type: none"> • By reporting day, globally, there have been 171.222.477 confirmed cases of COVID-19, including 3.686.142 deaths, reported to World Health Organization (WHO). • By reporting date, there have been 349.098 confirmed cases of COVID-19, including 4.910 deaths in Georgia, reported to World Health Organization (WHO). • Pandemic has been affecting general society, economy, culture, ecology, education, politics, and other areas. • Pandemic has caused travel restrictions, lockdowns, workplace 	<ul style="list-style-type: none"> • It was first identified in December 2019 in Wuhan, China • First case was identified in Georgia 26.02.2020. 	<ul style="list-style-type: none"> • As of 1 June 2021, a sum of 1.581.509.628 vaccine doses have been administered worldwide. • By reporting date, a sum of 202.758 doses have been administered in Georgia. • Vaccinations started on 15th March in Georgia. • Vaccination of workers has been started in the Project 	<ul style="list-style-type: none"> • Prepared and implemented Protective Action Plan against COVID-19, • Coordinated an awareness campaign including; <ul style="list-style-type: none"> ➢ Provided all the necessary information about COVID-19 to each worker; about the symptoms, preventive measures, information about national policy etc. as part of awareness campaign, ➢ Installed informational banners at each and every working place and/or camp in three languages (Georgian, Chinese/English) • Took disinfection measures including but not limited to; <ul style="list-style-type: none"> ➢ Provided necessary PPEs, disinfection liquid, face masks, gloves, protection coveralls, ➢ Arranged hand washing facilities, ➢ Displayed hand washing promoting posters,

	hazard and facility closures.			<ul style="list-style-type: none"> ➤ Provided hand disinfectant fluid station at office accesses, • Implemented social distancing rules including; <ul style="list-style-type: none"> ➤ Replaced face to face meeting by a teleconference or online event, ➤ Avoided to assembly more than 10 individuals in closed space, ➤ Informed all project personnel about social distancing rules, • Provided "Prevention of the COVID-19" training to workers (Annex 4), • Provided permanent disinfection of offices, dormitories, kitchen, camp areas, • Provided thermal screening, • Provided hermetically closed bins with appropriate signs for used facemasks and gloves, • Designated a room at camp site as an isolation room. • Vaccination has been started for workers
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4. RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of the Monitoring Conducted During Current Period

49. During the monitoring period, Contractor has not started instrumental environmental measurements yet. Engineer issued a notice to the Contractor through letter (Ref:0176-CSAE60F4/UBM-GE) regarding the fulfilling the instrumental monitoring requirements of the project as defined in EIA and as per contract and issued in the weekly construction meeting held on March 9, 2021.

50. Contractor has hired a certified laboratory, DG Consulting LTD, dated on 22nd, April 2021 for instrumental analysis for noise, air, surface water, ground water, wastewater and soil quality. Certification of the laboratory is presented in Annex 5. Certification expiry date is August,15, 2021. Renewed certification will be presented in the 4th semi-annual monitoring report.

51. Contractor submitted environmental monitoring measurement methodologies for noise, vibration, air, surface water, wastewater, and ground water quality for Engineer's review and approval dated June, 02, 2021 (Ref: 20210602-0253-GHEC-UBM). Upon Engineer's approval, the Contractor will start for initial analysis in the second week of June, 2021. Results will be included in 4th monitoring report.

52. The only available analysis was conducted for water being used for dust control and washing out of existing asphalt surface. Analysis result is presented in Table 9 and given in Annex 6. Water sample was taken from an existing water pool located around interchange 2.

Table 9: Water Results of Existing Water Pool

#	Parameter	Unit	Limits	Results
1	Facultative anaerobes	in /ML 37 °C 22 °C	20 100	105 305
2	Common coliform bacteria	in 300 ml	Not permitted	Found
3	E-coli	in 300 ml	Not permitted	Not found

53. Contractor got a connection to municipal water distribution line in the worker camp 5 for the purpose of providing potable water needs to be used at camp site (Annex 7). Moreover, contractor will drill a well in Batching Plant 2 for production and potable water needs. Permission will be presented within 4th semi-annual report.

4.2 Summary of Monitoring Outcomes

54. For regular monthly environmental instrumental monitoring the Contractor has assigned DG Consulting LTD.

55. During monitoring period, Contractor did not obtain any new permission to be presented in this report.

4.3 Waste Management

56. The Contractor developed a Waste Management plan to describe the requirements for establishing and conducting proper waste management and to address the handling, storage, and management of wastes to assure that works are conducted in a manner that minimizes environmental risk and shared with the MoEPA in 2020. Contractor received comments in January, 2021 for revision of the plan. After revision and resubmission of the plan dated April,23,2021 it was approved dated in May,7, 2021 by the MoEPA. Approval letter is presented

in Annex 8. The plan has not been shared to the Engineer officially since it is under translation process.

57. The Contractor renewed the agreement with the “Zestafoni Cleaning and Improvement Service Center” of the Zestafoni Municipality regarding provision of the collection and transportation of domestic wastes in February, 2,2021. Renewed contract is presented in Annex 9. The agreement is valid until February,1,2022.

58. Contractor has developed a waste log to record the movements of all non-hazardous and hazardous wastes in a format as given in Annex 10. This register/log mainly includes:

- Type of waste,
- The volume or mass of the waste,
- Date of disposal,
- Sub-contractor’s name.

Detailed information regarding the type of waste disposed of and responsible licenced companies are given in the Table 10.

Table 10: Waste Management

#	Domestic/Hazardous Waste & Sewage	Volume /kg/m ³	Licensed Company
1	Household waste	156 m ³	NNLEP “Zestafoni Cleaning and Improvement Service Center” of the Zestafoni Municipality
2	Sewage water	6000	Sanitari LLC
3	Used tires	0	Sanitari LLC
4	Hydraulic and used oil	0	Sanitari LLC
5	Waste paints and varnishes	0	Sanitari LLC
6	Chemical additive tanks	0	Sanitari LLC
7	Oil drums	0	Sanitari LLC
8	Used food oil	0	Sanitari LLC
9	Printer tonner	0	Sanitari LLC
10	Absorbents (e.g., oil filters, polluted clothes and materials)	0	Sanitari LLC
11	Medical Waste	0	Sanitari LLC
12	Metal Scraps	0	–

59. Contractor keep records of waste transfer notes filled and signed by the Contractor, waste carrier and receiving facility. During the reporting period, a total of 156 m³ domestic waste was transferred to be disposed of. Receipts are presented in Annex 11.

60. Contractor constructed septic tanks in worker camp # 2 and worker camp # 3 with a total capacity of 90m³ and 45m³ respectively. During reporting period, in January and February, contractor discharged a total of 6000m³ mixture of rain water and domestical waste water through licenced vacum trucks owned by “Sanitari LLC”. When the drainage channel works

surrounding the septic tanks were completed, rainwater was prevented from entering the septic tank.

61. Adequate number of waste bins for domestic and recyclable wastes are in place in all sites. However, all are labelled only in Georgian language. In order to provide and promote on site waste segregation, labels should be in English, Georgian and Chinese languages. The contractor ordered labels with three languages and has not received yet.

62. Contractor has not prepared temporary hazardous waste storage areas which must be roofed and fenced with restricted access yet. Contractor has been planning to construct hazardous waste storage areas at three different construction areas in interchange 1 (Photo 57) and 2 (Photo 58), and at batching plant 2. According to given information by Contractor, construction of the hazardous waste areas will be started in the first week of June, 2021. By reporting day, construction of the areas has not been started yet.

63. Metal scraps are being collected where produced during operations in separated areas and there has been no transfer yet. Company is going to make a contract with GoeSteel LTD to transfer and to recovery of metal wastes. Contract will be presented within the 4th report.

64. All project personnel have been received an overview of project environmental requirements, waste management requirements, and personnel that routinely work with hazardous wastes have been receiving additional training detailing refueling process, handling, segregation, storage and disposal requirements.

4.4 Current Period

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

- Estimated spoil generation: 1.830.000 m³
- Estimated spoil reuse for embankments: 1.330.000 m³
- Spoil need to be disposed of: 500.000 m³

66. Two spoil disposal areas were approved by the Ministry of Regional Development and Infrastructure of Georgia (MRDI), Roads Department of Georgia (RD). The first approved area is located at the administrative borders of Zestafoni Municipality, N45 Sergo Zakariadze Street (c/c: N32.10.41.096; 32.10.41 .262), right side of existing E60 main Road KM 185+00 to KM 200+00 with a total area of 42 438 m². The second approved spoil area is located in village Kveda Sakara (C/C N32.03.44.018) with 10900 m² total area. Contractor has not obtained "land use permit" for the areas yet. Permits will be presented in the 4th semi-annual environmental monitoring report.

67. Topsoil stripping is going on. Approximately 1150 m³ topsoil is stripped and stored properly. Topsoil stored in temporarily designated areas in Interchange 1 and Interchange 2 and not transferred to main storage areas yet, will be relocated after weather conditions is enough good for transfer operation. After completion of the transfers, all stock piles need to be covered with geotextile and drainage channels must be completed around piles to prevent topsoil loose.

68. The capacity of secondary storage basin with impermeable bund walls for fuel storage appeared to suffice with the 110% capacity of the fuel tank placed in batching plant 1. However, it is noted that drip trays have not been provided for on-site generators yet despite being ordered to be produced. Moreover, spill cleanup materials are not in place yet across the sites and batching plants.

69. Contractor currently has two water sprinkling trucks being used for washing out of existing asphalt surface during monitoring period. When weather conditions becomes drier the trucks will be used for dust suppression purposes as well by the Contractor.

4.5 Health and Safety

70. The Contractor’s HS specialists Mr. Giorgi Karelidze and HSE Manager, Mr Du Jun are at the site. Traffic Officer, Mr. Davit Ichkitidze joined to the HSE team to provide road and equipment safety. Team is responsible implementation, supervision, and monitoring of the construction activities on-site on daily-basis to ensure occupational and community health and safety are maintained.

71. Engineer’s local HS specialist Mr. Zaal Giorgadze has being continuously monitored contractor's HS performance at working areas and provided advice to the Contractor on how risks must be mitigated. HS specialist, Mr Giorgadze, prepared and reported approximately 20 weekly safety observation reports during reporting period. Moreover, Mr. Zura Rukhadze joined to Engineer’s team as Road Safety Specialist to ensure traffic safety is ensured during construction period.

4.5.1 Community Health and Safety

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

73. Contractor has appointed flagmen to control the movement of heavy vehicles in construction sites and to control the traffic while vehicles entering and exiting the construction sites. All flagmen were trained about HSE requirements of the project.

74. Contractor has appointed security officers on all construction site entrances and installed CCTV camera control system in all camp areas and batching plants. Camp areas and batching plants are fenced along to provide isolation.

75. Contractor has prepared Protective Action Plan against COVID-19. During this reporting period, there has been no COVID-positive cases observed. Currently, 65% of the project’s employees have been vaccinated.

4.5.2 Occupational Health and Safety

76. Regular safety inspection of construction site is being conducted by HS representatives as a continuous process. HS specialist reports all safety deviations to HSE Manager on a daily basis. HS department conducts mandatory HSE induction for new employees, started to provide special safety trainings for workers to raise safety culture including working at height, flagmen training, driving safety, requirements for earthwork activities and lifting operations. Moreover HS specialist prepares documentations for trainings, risk assessments for special works and work procedures.

77. Contractor is providing the mandatory PPEs and special protective equipment for the workers on site. Nevertheless, enforcement to usage is insufficient. Contractor purchased welder’s aprons (30 no’s) for welders and safety shoes and distributed to workers.

78. Details of the accident that occurred during the reporting period are given in the Table 11.

Table 11: Works Related Accidents Reported during the Monitoring Period

#	Date	Description	Measures Taken	Follow up
1	▪ 28.05.2021	▪ May,28th, contractor’s employee Xu Hongshan at East Portal No:3 around 15.12 am,	▪ She took first aid treatment	▪ She turned back her duties after treatment.

		upon arriving descent, the employee could not restrain herself and rolled down because of insufficient attention. She had minor injuries on her left knee and right arm in the form of scratches.		▪ Additional safety instruction is required.
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79. Trends related to the accidents reported during the reporting period are given in Table 12.

Table 12: Types of Accidents Reported

Accident Type	Reporting Period (January 2021 to June 2021)	Total (December 2020 to June 2021)
Near Miss	0	0
Accident Minor	1	1
Accident Major	0	0

80. Contractor has not provided an HIV (Human Immunodeficiency Virus) Awareness Program covering of HIV/AIDS management plan, orientation and awareness to workers about sexually transmitted diseases (STD), screening tests of workers, distribution of promotion material etc. Contractor was notified to start this training till 2nd week of June.

81. Contractor has not assign a permanent medical personnel yet for providing medical assistance in case of medical emergency, including safe evacuation of injured person.

4.6 Trainings

82. Contractor continues the training program to form a lasting culture on the behavior and activities of employees that in turn affects the environmental, social and safety performances. The program covers both mandatory induction training and work specific trainings.

83. During the 3rd monitoring period, given trainings covered following headlines:

- Induction training,
- Tree cutting,
- Tops soil stripping and storage,
- Hazardous non-hazardous waste handling storage,
- Refueling process,
- Environmental and social training,
- Earthwork activities,
- Driving safety,
- Lifting operations,
- Working at height,
- Flagmen training,
- Toolbox talks

84. General Environmental and Social training on environmental issues was conducted for 184 of Contractor’s staff. The training covered basic knowledge related to Environmental Legislation, top soil preservation, air quality, waste management, land contamination, spill prevention, biodiversity, noise, resources management, chemical management, community safety, cultural heritage and code of conduct. Sample attendance list are enclosed in Annex 12.

85. Induction training was conducted for 78 project staffs. During reporting period 252 toolbox talks were provided by HS officer or formen or site supervisor. Moreover, HS and general requirements for tree cutting training was provided for 17 staffs, topsoil stripping and storage training was provided to 28 staffs, hazardous&non-hazardous waste handling storage training were provided for 184 staffs, training for refuelling was given to 28 staffs, earthwork activities was provided for 3 staffs, lifting operations was provided for 7 staffs, working at height training was provided for 8 staffs and 12 flagmen were trained about general HS requirements of the Project.

4.7 Social Management and Grievance Redress Mechanism

86. Contractor revised organization chart for Health, Safety, Environmental and Social management and according to the new management structure Contractro’s CLO, Mr. Koba Kruashvili, directly reports to the Project Manager. Furthermore, Engineer appointed Dr. Mohammad Isa Ansari (Mobile phone: +91 9910020765) as International Resettlement and Social Development Specialist at the beginning of May,1,2021. Local Social Development Specialist. Mr. Gelashvili and Dr. Ansari will be monitoring the status of the Contractor’s compliance with social management.

87. Griviance Redress Mechanism (GRM) was developed by the Contractor and submitted to Engineer for rewieving and approval (February,19, 2021- Ref: 20210403-0148-GHEC-UBM, April,3,2021- Ref: 20210316-0134-GHEC-UBM and April,16,2021-Ref: 20210416-0166-GHEC-UBM). GRM was approved in April, 2021.

88. Contractor has not placed any complaint boxes in the main campsite, nominated the focal person and set up the communication line for workforce complaints resolutions. Moreover, workforce has not been informed through trainings about mechanism yet. Considering community, grievance information and contact numbers of representatives of Grievance Redress Committee (GRCE) and Contractor CLO has not been posted on the notice boards at the communities yet.

89. Engineer has used a grievance log to track external grievances. During the 3rd reporting period (January to June), 7 grievances were received. Out of 7 grievances, 1 relates to inclusion in LARP, 1 regarding restriction or loss of access, 4 damage to infrastructure / assets and 1 noise and vibration and dust. Out of these 7 grievances, 1 have been resolved and status of 6 grievances is still open. Details of recorded grievances are given in Annex 13, status of grievances is summerized in Table 13.

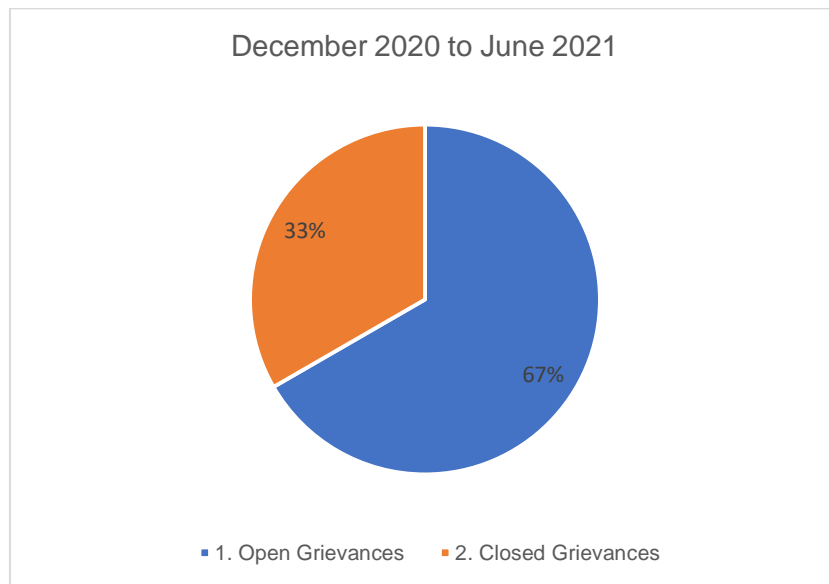
Table 13: Status of Grievances

	Total Number of received (Jan 2021 to Jun 2021)	Status		Total number of received (December 2020 to June 2021)	Status	
		Open	Closed		Open	Closed
External Grievances	7	6	1	9	6	3

Internal Grievances	0	0	0	0	0	0
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90. From the beginning of the Project, a total of 9 grievances have been received and a total of 33% grievance is closed and 67% is still open till end of 3rd monitoring period. Grievances status in percentages are presented in Figure 5.

Figure 5: Grievance Status in Percentage



91. Contractor has hired a registered company, Sustainable Development Solutions Caucasus (SDSC), to determine the pre-blasting conditions of the existing buildings/structures for the process of reporting any grievances regarding vibration impacts. Surveys has been started by the Contractor at site in May, 2021 and. Contractor has completed survey of over 300 houses within the tunnel blasting zone. Survey reports are being revised as per Engineer’s comments and will be available shortly. There are around 100 houses outstanding that will be completed in second half of August. Official registration document of the company is presented in Annex 14.

92. Contractor started to arrange monthly community meetings. However, contractor has not kept records for of community meetings as defined and required in EIA including minutes of meetings, list of participants with signatures, photos of each event with timestamps. The contractor was notified about requirement in the weekly construction meeting held on March 9, 2021.

5. FUNCTIONING OF SSEMP

5.1 SSEMP Review

93. To ensure that all of the potential mitigation measures are applied during the construction phase, the Contractor shall be responsible in the pre-construction phase for the preparation of his Specific Environmental Management Plans (SEMP). The approved SEMP shall include the following plans:

- (i) Topic Specific Plans:
 - Waste Management Plan

- Spoil Disposal Plan for Arrangement of Spoil Disposal Area
- Re-cultivation Plan
- Traffic Management Plan
- Occupational Health and Safety Plan
- Community Health and Safety Plan
- Emergency Preparedness and Response Plan
- Air Quality Plan
- Spill Response Plan
- Vibration Monitoring Plan
- Clearance, Re-vegetation and Restoration Management Plan
- Groundwater Management Plan
- Tunnel Blasting Plan
- Noise Management Plan
- Biodiversity Action Plan
- Topsoil Stripping and Storage Plan
- Chance Find Procedure
- Grievance Redress Mechanism
- H&S and E&S Training Plan
- Bridge Construction Plan
- Community Liaison Management Plan

(ii) Site Specific Plans:

- Construction Camp Management Plan
- Asphalt Plant Plan
- Rock Crushing Plant Plan
- Concrete Batching Plant Plan.
- Site Specific Method Statement for Working in the Area above the Railway Line at KM 6.3 and at Bridge BR 4.0.1. AT/TA
- Detailed Method of Working in the Water and Workplan
- Contaminated Spoil Treatment Plan

94. SEMP was developed by the Contractor and submitted to the Engineer for reviewing and approval (January, 27, 2021-Ref:20210127-0090-GHEC-UBM, February, 19, 2021-Ref:20210219-00108-GHEC-UBM, March,2,2021-Ref:20210302-0118-GHEC-UBM March, 15, 2021-Ref: 20210315-0129-GHEC-UBM and May, 28, 2021- Ref 20210528-0148). SEMP was approved in June, 7,2021 with Engineer's letter no 0333-CSAE60-F4-UBM-GE. Moreover, Contractor was requested to update of SEMP reflecting anti-COVID measures as per requirement of ADB. Updated SEMP was approved August, 5, 2021 with Engineer's letter no 0492-CSAE60F4-UBM-GE.

95. Status of plans, approval dates and reference numbers of Engineer's letter given in Table 14: XXXXXX

Table 14: Approval and Disapproval Status of Management Documents

Plan	Status	Approval Date	Approval Eng. 'sRef No
Specific Environmental Management Plan-R1 (including COVID measures)	Approved	05/08/2021	0492-CSAE60F4-UBM-GE
Waste Management Plan	Approved	07/05/2021	4590-01-2-202105071440 -Approved by MoEPA
Spoil Disposal Plan for Arrangement of Spoil Disposal Area	Submitted, not approved yet		
Re-cultivation Plan	Approved	17/11/2020	025-CSAE60F4-UBM-GE
Traffic Management Plan	Approved	18/05/2021	0297-CSAE60F4-UBM-GE
Occupational Health and Safety Plan-R1 (including COVID measures)	Approved	04/08/2021	0490-CSAE60F4-UBM-GE
Community Health and Safety Plan	Approved	17/11/2020	009-CSAE60F4-UBM-GE
Emergency Preparedness and Response Plan-R1 (including COVID measures)	Approved	04/08/2021	0490-CSAE60F4-UBM-GE
Air Quality Plan	Approved	17/11/2020	007-CSAE60F4-UBM-GE
Spill Response Plan	Approved	05/08/2021	0491-CSAE60F4-UBM-GE
Vibration Monitoring Plan	Approved	17/11/2020	013-CSAE60F4-UBM-GE
Clearance, Re-vegetation and Restoration Management Plan	Approved	17/11/2020	023-CSAE60F4-UBM-GE
Groundwater Management Plan	Approved	17/11/2020	052-CSAE60F4-UBM-GE
Tunnel Blasting Plan	Not submitted yet		
Noise Management Plan	Approved	17/11/2020	014-CSAE60F4-UBM-GE
Biodiversity Action Plan	Approved	17/11/2020	012-CSAE60F4-UBM-GE
Topsoil Stripping and Storage Plan	Approved	05/08/2021	0497-CSAE60F4-UBM-GE
Chance Find Procedure	Approved		
Grievance Redress Mechanism	Approved	29/04/2021	0257-CSAE60F4-UBM-GE
H&S and E&S Training Plan	Approved	10/02/2021	120-CSAE60F4-UBM-GE
Bridge Construction Plan	Not submitted yet		
Community Liaison Management Plan	Approved	20/11/2020	020-CSAE60F4UBM-GE
Construction Camp Management Plan	Approved	17/11/2020	018-CSAE60F4-UBM-GE
Asphalt Plant Plan	N/A (It is not planned to install an asphalt plan)		
Rock Crushing Plant Plan	N/A (It is not planned to have a quarry and crushing plant)		
Concrete Batching Plant Plan	Approved	25/02/2021	0154-CSAE60F4-UBM-GE
Site Specific Method Statement for Working in the Area above the Railway Line at KM 6.3 and at Bridge BR 4.0.1. AT/TA	Submitted, not approved yet		
Detailed Method of Working in the Water and Workplan	Approved	29/04/2021	0258-CSAE60F4-UBM-GE
Contaminated Spoil Treatment Plan	Approved	24/05/2021	0304-CSAE60F4-UBM-GE

6. GOOD PRACTICES

6.1 Good Practices

96. Following best practices are being adopted by the contractor due to site inspections, issuance of inspection reports and discussions during construction progress meetings (Annex 15) headed by the Engineer:

- Contractor has assigned a sub-contractor for instrumental monitoring,
- Adequate number of waste bins are in place in all construction sites and camp areas,

- Collection and disposal of domestic wastes and sewage water by Sanitari LLC,
- Sealed concrete washout pits for concrete mixers have been arranged,
- Roads close to the construction territory have been regularly washed by water sprinkler,
- Washout pits have been arranged for truck tires to clean mud from tires before entrance main road,
- Waste log was developed and maintained,
- Contractor provides necessary COVID-19 protective equipment for employees, sub-contractor and visitors,
- Rules for “How to Handwash” have been installed on all of the hand washing stations organized on the camps territory,
- COVID-19 information signs were installed on the camp territory at worker Camp №3,
- Provision of lavatories to workers,
- Safety information boards were installed,
- Site name indicatives are in place,
- Fire extinguishers are in the appropriate boxes with instructions for use,
- Oxygen tanks are stored safely,
- Protective guardrails were installed around the excavation/opening areas,
- Flagmen were assigned to control the movement of heavy vehicles in construction sites and to control the traffic,
- Contractor has being provided the PPEs to all the workers,
- Additional safety shoes were bought and distributed to the personnel,
- Appropriate fireproof welding apron and face protective welding shields were bought and distributed to the personnel,
- CCTV camera control system was installed in all camp areas and batching plants,
- All camp areas were fenced,
- Induction training, work specific trainings and TBTs are given to employees regularly,
- Installation of corrugated sheet boundary wall with a total height of 3 metre along access road of Batching Plant 2 to decrease noise level affecting and disturbing local residents,
- Contractor has hired a company, SDSC, to determine the pre-blasting conditions of the existing buildings/structures,
- Site meetings for grievance resolution process were organized with the attendance of owner of grievances, representatives of the contractor and the engineer.

7. SUMMARY AND RECOMMENDATION

7.1 Summary

97. Taking in to account the emergency due to spread of pandemic COVID-19 worldwide, the Contractor prepared a “Protective Action Plan against COVID-19” outlining the measures to be taken to prevent the spread of the COVID-19 virus. Contractor showed prompt action to take measures to fight against COVID-19.

98. By reporting day, there has been no COVID-positive cases observed and reported. All Chinese employees were vaccinated and the vaccination of Georgian employees has been started. On average, 65% of the project’s employees have been vaccinated.

99. A sum of sixty-three nonconformities and corrective action requirements accordingly were issued to the Contractor through inspection reports during 3rd monitoring period. Out of sixty-three (63) issues, fifty-two (52) issues were closed and there are eleven (11) corrective action requirements are transferred to next semi-annual report to follow up.

100. Contractor has hired a certified laboratory, DG Consulting LTD, dated on 22nd, April for instrumental analyses for noise, air, surface water, ground water, wastewater and soil quality. Contractor will start for initial analysis in the second week of June, 2021.

101. No HS and environmental relevant NCR were reported during the this reporting period. 1 minor accident was reported. During the 3rd reporting period, 7 external grievances were received. Total number of received grievances since December 2020 is 9. Status of 6 grievances are open and 3 is closed.

102. Analyzing the contractor environmental management system reveals that contractor pay less attentions to preparation of management system documentation.

7.2 Recommendations & Follow-up Actions for the next Monitoring Period

103. Following recommendations describes any actions required to achieve full compliance with each requirement in the EIA, EMP and conditions of the contract during the third and fourth quarter of 2021 (Q3-Q4 2021):

- Provision of drip trays for all the on-site generators- Q3-Q4 2021;
- Completion of the transfer of the topsoil stored in the temporary storage areas to the main storage areas- Q3-Q4 2021;
- Prevention erosion and loss of topsoil through construction of diversion channels and silt fences around the topsoil stockpiles- Q3-Q4 2021;
- Completion and start of use of roofed and fenced hazardous waste storage areas to be constructed at interchange 1, 2, and at batching plant 2- Q3-Q4 2021;
- Improvement of domestic and hazardous waste management at construction sites, and regular inspection by supervisors- Q3-Q4 2021;
- Provision of on site waste segregation through three languages labelling system (English, Georgian and Chinese) on waste bins - Q3-Q4 2021;
- Providing spill cleanup materials across the sites and batching plants and spill cleaning trainings to workers - Q3-Q4 2021;
- Limitation of Contractor’s working hours from 8 am to 6 pm, when operating close to sensitive areas (within 250 meters) such as medical facilities- Q3-Q4 2021;
- Covering of the dumpers back carrying spoil and water sprinkling during dry and windy days- Q3-Q4 2021;
- Setting up a spoil disposal monitoring system- Q3-Q4 2021;

- Protection of river banks from inert materials and installing warning signs around working areas- Q3-Q4 2021;
- Arrangement of additional impermeable concrete washout pits- Q3-Q4 2021;
- Construction of sediments & grease traps at all campsites and sub-camps and batching plants- Q3-Q4 2021;
- Conducting of instrumental environmental monitoring (air, noise, vibration, surface water quality, ground water quality) and providing results to the Engineer- Q3-Q4 2021;
- Enforcement and improvement of the wearing of full body protection of PPEs according to nature of job being performed- Q3-Q4 2021;
- Continuous trainings of working and refresher sessions for workers related to environmental protection and wearing of the PPEs- Q3-Q4 2021;
- Inspection of all lifting equipments by a certified by 3rd party- Q3-Q4 2021;
- Updating of Protective Action Plan against COVID-19 on regular basis depending on the development and change process of pandemic in the world and the country- Q3-Q4 2021;
- Installation of speed limit signs at the construction site- Q3-Q4 2021;
- Installation of temporary protection barriers of prefabricated concrete cubes along the existing road to isolate active construction sites from the road and road users- Q3-Q4 2021;
- Road marking of highway to guide the road users- Q3-Q4 2021;
- Strengthening and stabilization of slopes during the construction of tunnel portals- Q3-Q4 2021;
- Provision of well maintained parking facility for vehicles and for heavy vehicles- Q3-Q4 2021;
- Updating of HSE logbook- Q3-Q4 2021;
- Medical personnel must be assigned- Q3-Q4 2021;
- HSE statics must be part of Quality Daily Reports- Q3-Q4 2021;
- Grievance boxes and grievance forms must be in place, and workers must be trained about grievance mechanism; how to use, resolution process etc.- Q3-Q4 2021;
- Provision of HIV Awareness Program covering of HIV/AIDS management plan, orientation and awareness to workers about STD and distribution of promotion material etc.- Q3-Q4 2021;
- Provision of road safety awareness to children in school season- Q3-Q4 2021;
- Keeping records for each of community meetings including minutes of meetings, list of participants including signatures, photos of each event with timestamps as per EIA.- Q3-Q4 2021.

The Engineer will undertake continuous inspections and site visits to identify how the Project requirements are being met at the construction compounds and camps, following which the fourth semi-annual environmental monitoring report covering July-December 2021 will be prepared and this report will be updated.

ANNEXES

Annex 1: Project Photos



Photo1: Main Camp Area



Photo2: Camp Area



Photo3: Camp Area



Photo4: Camp Area



Photo5: Batching Plant 1



Photo6: Batching Plant 2



Photo7: Batching Plant 1



Photo8: Information Banner



Photo9: Ongoing Earthworks



Photo10: Ongoing Earthworks



Photo11: Ongoing Earthworks



Photo12: Ongoing Earthworks



Photo13: Preparatory Work for Tunnel



Photo14: Excavation Works



Photo15: Tree Cutters and Designated Storage Area



Photo16: Protective Guardrails in the Excavation Area



Photo17: Site Name Indicative



Photo18: Site Name Indicative and Construction Site Safety Signs



Photo19: Road Being Washed



Photo20: Water Sprinker



Photo21: Flagmen Training



Photo22: Flagman to Regulate the Traffic



Photo23: COVID-19 Prevention Measurements Information Board



Photo24: HSE Information Board



Photo25: General view of Information Board



Photo26: COVID-19 Information Signs



Photo27: Welder's aprons (30 no's)



Photo28: Purchased Safety Shoes



Photo29: Metal Scraps



Photo30: Waste Bins



Photo31: Waste Bin in Office Area



Photo32: Septic Tank



Photo33: Metal Scraps in Designated Area



Photo34: Metal Scraps



Photo35: Gas Cylinders inside the Shelter

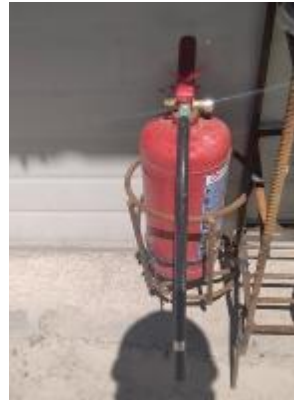


Photo36: Fire Extinguisher in Place



Photo37: Cleaners



Photo38: Diesel Reservoir



Photo39: Concrete Mixer Washout Pit



Photo40: Washout Pits for Tires



Photo41: Training for Flagmen



Photo42: Training for Working at Height



Photo43: Welder using Protective Equipment



Photo44: Location Name Indicative Sign



Photo45: Control Room of CCTV Cameras



Photo46: Camera Control



Photo47: Topsoil Storage at Access Road
2



Photo48: Topsoil in Temporary Area



Photo49: The meeting with the local residents for complaint resolution



Photo50: The meeting with the local residents for complaint resolution



Photo51: The meeting with the local residents for complaint resolution



Photo52: HSE Training



Photo53: HSE Training for Tree Cutters



Photo54: COVID-19 Measures



Photo55: Purchased Disinfection Liquid



Photo56: Purchased Sterilization Solution




Photo 57: Selected Area for Hazardous Waste Storage in Interchange 1




Photo 58: Selected Area for Hazardous Waste Storage in Interchange 2

Annex 2: HS&E Inspection Reports



中国铁建交通工程集团
CHINA RAILWAY CONSTRUCTION GROUP CO., LTD.



贵州省公路工程集团有限公司
GUIZHOU HIGHWAY ENGINEERING GROUP CO., LTD.

Site Inspection Report

Project:	Construction of Shiqianzi-Angveta Section (E60 Highway Route) I ₄
Subject:	Site Inspection
Inspection Date:	30, 2021
Issue Date:	30, 2021
Occupational Safety Specialist:	Zhangyong

Detailed Description of Activities

On the May 30th, 2021 Supervisory company of Guizhou Highway Engineering Group's Health and Safety Supervisor implemented series of the Construction of Shiqianzi-Angveta Section I₄ Site inspection revealed safety risks and good observations. Also, corrective actions taken against violations revealed in the last inspection report has been inspected.

Below are the list of the risks and good observations revealed during onsite inspection. Each of the listed violations was corrected in the following week.

1



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CHINA RAILWAY CONSTRUCTION GROUP CO., LTD.



贵州省公路工程集团有限公司
GUIZHOU HIGHWAY ENGINEERING GROUP CO., LTD.

Site Inspection Report

Supporting Photos with Descriptions



Photo 1. Interchange: I02: Risk: Confinespace: Damaged electrical cable is scattered on the ground. To avoid the damage of the cable and electric shocking personnel, cables must be lifted at appropriate height or put into the protective case.

2



中国铁建交通工程集团
CHINA RAILWAY CONSTRUCTION GROUP CO., LTD.



贵州省公路工程集团有限公司
GUIZHOU HIGHWAY ENGINEERING GROUP CO., LTD.

Site Inspection Report





Photo 2. Interchange: I02: Risk: Confinespace: Electrical cables are not at a safe and appropriate height, there is a hazard of heavy machinery getting caught on the line.

3



Photo 3. Interchange #22: **Non-Conformance:** Metal waste collecting/storing area must be fenced;



Photo 4. Interchange #22: **Non-Conformance:** The excavation area must be fenced with protective guardrail;

Project: Construction of Shiqianji-Angvya Section (E60 Highway Route)
 Lot F4

Subject: On Site Inspection

Inspection Date: May 20, 2021

Issue Date: May 20, 2021

Environmental Specialist: Bhdzira Perdre

Detailed Description of Activities

On the May 20th, 2021 Supervising company of Guizhou Highway Engineering Group's Environmental Supervisor implemented inspection of the Construction of Shiqianji-Angvya Section Lot F4. Site inspection revealed Environmental violations and good observations.

Below are the list of the violations and good observations revealed during onsite inspection.

Each of the listed violations must be corrected in the following week.

Supporting Photos with Descriptions



Photo 1. Interchange #00: Noe Conformance Diesel Generator is placed on the Ground without Drip tray (Drip trays are ordered and will be presented as soon as possible)



Photo 2. Interchange #00: Good Observations Scrap metal is collected in special containers. (Containers should be labeled)



Photo 3. Interchange 202. Non-Conformance: Concrete washout on the ground. Misc. truck drivers should be informed about that washing out of Concrete. Chemicals is allowed only in Washout pits. If it is necessary, additional washout pits should be made.

4



Photo 4. Interchange 192, Washout Camp. Good Observation: Waste bins are presented on all of the sites; they are labeled and signed only in Georgian language. (Labels are ordered and will be available in three languages, Georgian, English, and Chinese.) Labeling is necessary for proper waste segregation.

5



Photo 5. Tunnel 03, Portal Non-Conformance: While excavation and drilling of tunnel portal, spoiled soil and rocks are falling in to the River. Bottoms. All disposed material should be removed and river bank protection should be made.

6



Photo 6. Interchange N11 *Good Observation:* Washout concrete mixer truck in to proper washout pit.



Photo 7. Interchange N11, Tunnel #2 *Good Observations:* Washout for tires of trucks are available on most of the sites.

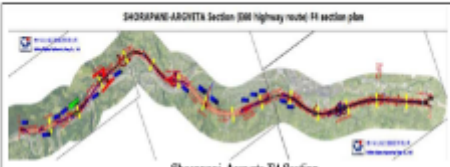


Photo 8. Interchange #4 AT *Good Observations:* Topsoil storage in progress. When accumulation of topsoil will be completed it must be fenced with geotextile and drainage channel should be made, to avoid erosion and washout.

Annex 3: Protective Action Plan against COVID-19




贵州高速公路工程集团有限公司
GUZHOU HIGHWAY ENGINEERING GROUP CO., LTD.

CNTIC 中国铁路建设集团技术服务有限公司
CHINA NATIONAL TECHNICAL IMPORT & EXPORT CORP.



SHORAPANI-ARGVETA Section (E60 Highway route) F4 section plan

Shorapani-Argveta F4 Section

 ROAD DEPARTMENT OF GEORGIA საშენიანო სამსახური	Road department of Georgia of The Ministry of Regional Development and Infrastructure of Georgia
 UBM ULUSLARARASI BİRLEŞİK MİMARLIK MÜHÜRLEME VE İNŞAAT HİZMETLERİ A.Ş. (TURKEY) Construction Supervision Consultant for E60 Highway F4 Shorapani-Argveta Project	Engineer: UBM Uluslararası Birleşik Mimarlık Mühürleme Hizmetleri A.Ş. (Turkey)
	Contractor: Guizhou Highway Engineering Group Co. & China National Technical Import and Export Corporation Joint venture

CONSTRUCTION OF SHORAPANI-ARGVETA SECTION
(E60 HIGHWAY ROUTE) LOT F4
Contract No. SARP/CW/OCB-01

Protective Action Plan against COVID-19

Prepared by: Guizhou Highway Engineering Group Co. & China National Technical Import and Export Corporation Joint venture
Reviewed by: Mai Shikun, Project Manager

Submitted for: Approval

贵州高速公路工程集团有限公司
GUZHOU HIGHWAY ENGINEERING GROUP CO., LTD.

CNTIC 中国铁路建设集团技术服务有限公司
CHINA NATIONAL TECHNICAL IMPORT & EXPORT CORP.

Protective Action Plan against COVID-19

Prepared by: Guizhou Highway Engineering Group Co. & China National
Technical Import and Export Corporation Joint venture
Reviewed by: Mai Shikun Project Manager

F4 Section (Kvada Tsvna-Argveta) - Khvri-Ublua-Shorapani-Argveta, E60 EYTB

Guizhou Highway Engineering Group Co Ltd and China National Technical Import & Export Corporation, Joint

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GUZHOU HIGHWAY ENGINEERING GROUP CO., LTD.

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CHINA NATIONAL TECHNICAL IMPORT & EXPORT CORP.

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Guizhou Highway Engineering Group Co Ltd and China National Technical Import & Export Corporation, Joint

1. Project Brief Description

The Project involves construction of a new road section of the E-60 highway located in Eastern Region of central Georgia (see Figure 1). Section T4 covers the Tbilisi – Argvina portion of the Khviri-Utkhe-Shorapani-Argvina section of the E-60. The length of the Project road is as follows: • Right lane (TA – meaning Tbilisi – Argvina direction) – 14,378 km; • Left lane (AT – meaning Argvina – Tbilisi direction) – 14,372.

The viaducts will be constructed with double tubes with length from 399 m to 1166 m. To construct the roadbed in the project section concrete retaining walls and reinforced concrete support structures will be required in several sections due to the difficult relief conditions of the project section. Reinforced concrete retaining walls are required at the beginning of the project section from:

- KM 0.00 to KM 0.25
- KM 8.63 to KM 8.71
- KM 8.84 to KM 8.91

There are four interchanges planned in T4 Section.

The following types of culverts will be constructed:

- Underpasses for rural roads, which are construction of cast in situ reinforced concrete structures of closed contours cross sections 6.0x2.5 m – 8 units for passing rural roads is envisaged in the design;
- Cattle passes, which ensure cattle cross the project road. Construction of cast in situ reinforced concrete structures of closed contours cross sections 4.0x2.5 m – 4 units is envisaged in the design;
- Culverts, for which cast in situ reinforced concrete culverts cross section 2.0x2.5 m – 17 units, 4.0x2.5m – 2 units is envisaged in the design to provide water discharge from rainwater and creek.

Eight underpasses will be constructed using windowed concrete culverts. One overpass will be constructed at km 11+854 with a length of 40 meters.

Two different pavement structures will be used:

- Concrete pavement structure for the motorway and interchanges; and
- Asphalt pavement structure for all 5/6 roads and all 1/3 rural roads and bridges.



2. Total Employees in Georgia

We have all together 67 Chinese managers and engineers, 14 Georgian managers and engineers, 131 Chinese workers and 66 local workers, total 278 employees.

3. Hiring of Doctors and Contact with NCDC

3.1. Hiring of Dedicated Doctor and Maintain Daily Communication with local disease control center

Our company will hire medical doctors during May. They will responsible for checking the temperature and health condition of all employees on daily basis and shall maintain daily communication with local disease control center. If there any employees have COVID-19 related symptom such as fever, cough and shortness of breath doctors should inform the local disease control center, and if necessary, shall contact the local hospital and send the employee to hospital and isolate all employees which had contact with such persons.

3.2. Contact with Local NCDC

We are in close contact with local National Center for Disease Control, Lia Shanelidze Zestafoni municipality, phone number 593-11-63-97 and Temur Ovelidze from regional NCDC, phone number 599-14-98-70.

We are receiving guidance and recommendations from them and also if there are any employees have symptoms, we will keep them informed immediately.

4. Protective Actions for Employees in Georgia

Our company has been established and implemented protective action plan in full compliance of recommendation of the Health authorities. We hereby describe our actions as follows:



4.1. Awareness Campaign

- Provide all the necessary information about COVID 19 to each employee
 - Provide detailed information about COVID 19;
 - Provide detailed information about the symptoms;
 - Explain all the recommendations and preventive measures in details (including sanitation and hygiene, ways of transmission; maintaining social distancing etc.);
 - Provide information about acting in case of revealing any symptoms (e.g. informing the employer, self-isolation, testing etc.);
 - Inform about the National government policy and GHEC internal policy regarding COVID 19.
- Display informational banners at each and every working place and/or camp in different languages (Georgian, Chinese/English)
 - Assign the responsible contact person(s) and put their contact details on banners;
 - Display posters promoting hand washing and respiratory hygiene at workplaces.

Daily awareness action on the construction site get described below:



Display of publicity brochures in the construction site accommodation area

4.2. Disinfection Measures

- Put liquid soap (preferably antibacterial) and paper towels at each and every lavatory;
- Arrange hand washing facilities at the steel workshops and other construction areas;
- Display hand washing promoting posters at the lavatories and hand washing facilities;
- Put alcohol-based hand sanitizer at workplaces;
- Put hand disinfectant fluid station at office access and inform all visitors to use it;
- Wipe surfaces (e.g. desks and tables) and objects (e.g. door handles, telephones, keyboards) with disinfectant regularly (at least twice a day).

Daily Disinfection:



Construction site indoor disinfection

4.3. Avoid Face to Face Meetings

- Replace face to face meeting by a teleconference or online event;
- Inform all personnel to keep minimum 1.5-meter distance to each other;
- If face to face meeting is essential, scale it down so that fewer people attend;
- Avoid to assembly more than 10 individuals in one place especially closed space (conference rooms, transport, catering);
- Make sure all participants and visitors are informed about company protection policy measures and provide their names and contact details as well.

4.4. Other measures

- Regularly measure temperature of every worker (at least 2 times a day - before entering and leaving the workplace);
- Train the supervisors/foremen or other responsible person in properly measuring the temperature;
- Use only remote fever thermometers;
- Ensure that face masks and alcohol-based disinfectants are available at workplaces;

- Consider all the recommendations from governmental departments and the company doctor;
- In case of identification the symptoms on employee, he/she should leave project as minimum 7 day
- Provide mandatory flu symptoms checklist for employees which they must complete every day.
- As possible restrict chronic disease owner and 70 years old and older employees contact with another staff
- Use PPE only during work activity, not wear them inside accommodation and canteen
- at workplace complete 2 crew who will arrange work alternately, between change, workmate will be disinfectant.

5. Regulations for Crossing the Georgian Border in connection with the COVID-19 pandemic

■ Entry rules for COVID-19 vaccinated visitors

Citizen of all countries, traveling by air from any country may enter Georgia if they present the document confirming the full course (two doses) of any COVID-19 vaccination at the border checkpoints of Georgia.

*Except for persons coming from the Republic of India. All passengers traveling from India, regardless of citizenship and full course of vaccination, shall present negative PCR test conducted in the last 72 hours prior to their visit to Georgia and undergo mandatory 14-day quarantine at their own expense.

Attention! Before crossing the Georgian state border, it is obligatory to complete the special application form, indicating the travel history of the last 14 days, contact details (address, phone number, email etc.) <https://exp.ge.gov.ge/Preved>.

■ Entry rules for non-vaccinated visitors

Georgian nationals:

1) Georgian nationals presenting the negative result of the PCR test conducted within 72 hours prior the visit, will be subject to either self-isolation or to optional PCR examination at their own expense on the 1st day of their entry in Georgia. If self-isolation is not possible, he/she will be subject to mandatory quarantine.

2) If Georgian national fails to submit the document confirming the PCR examination at the border, he/she will be placed in self-isolation for 8 days, and if self-isolation is not possible, he/she will be subject to mandatory quarantine.

For foreigners:

Chinese and residence permit holders of the following states may enter Georgia by air under the conditions mentioned below:

- European Union Member States
- State of Israel
- Republic of Turkey
- Swiss Confederation
- Kingdom of Norway
- United States of America
- United Kingdom of Great Britain and Northern Ireland
- Kingdom of Saudi Arabia
- State of Qatar
- United Arab Emirates
- Kingdom of Bahrain
- Republic of Armenia
- Republic of Azerbaijan
- Ukraine
- Republic of Kazakhstan
- Russian Federation
- Republic of Belarus
- Republic of Uzbekistan
- Republic of Tajikistan
- Republic of Kyrgyzstan
- Turkmenistan

For entering Georgia, they must comply with the following conditions:

- They must travel by air directly from the countries mentioned above, including transit travel through third countries. Land and sea borders remain closed.
- At the border checkpoints of Georgia they must present PCR examination certificate conducted during 72 hours prior to arrival to Georgia.
- On the 3rd day of their stay, they are obliged to undergo PCR-examination at their own expense.
- Before crossing the state border, they must complete the special application form, indicating the travel history of the last 14 days, contact details (address, phone number, email etc.) <https://exp.ge.gov.ge/Preved>.
- All individuals who have traveled to the Republic of India within the last 14 days will be placed in mandatory quarantine for 14 days upon entry. In this case, PCR-examination on 3rd day of their stay will be waived.

Except for the above-mentioned categories, the restriction on entry to Georgia does not apply to:

1. Representatives of diplomatic missions and international organizations accredited to Georgia and their family members;
2. Family members of Georgian citizens, despite their nationality. (Spouse, children under 18 years old, relevant documents should be presented);
3. Persons arriving in Georgia as part of humanitarian mission – if trip of such mission (doctors, volunteers, etc.) to Georgia becomes a necessity;
4. Individuals who have been granted the status of stateless person by respective authorities of Georgia;
5. Individuals holding state-issued ID card or travel documents;
6. Individuals having a refugee status in Georgia;
7. Members of official delegations (will be decided on a case-to-case basis);
8. Train and truck drivers, involved in transport of goods and services and airplane crew.

5.1. Disinfection Measures

In charge, Giorgi Bhumvaki, Tel: 595 29 41 61

- Every day disinfection should be done in restrooms and bedrooms and entrance area;
- The used masks and other articles for daily use shall be collected and disposed (in special plastic container with signs).

Preparation work before the Workers Arrival

- Before the workers arrival, company provide detail list and information about their health condition.
- Healthy status official paper is required to submit for all arrival workers.
- If needed in future, we are negotiating with airline company to rent special flight for our workers to reduce contact risk while transit from any possible third country.

6. Responsible Person for Implementation of this Action Plan

Responsible person for the implementation of this Plan are as follows:

- Project Manager: Shilun Mei, Tel : 591034872
- Executive Project Manager: Jiankai Yi, Tel : 599978026
- Health and Safety Manager: Jun Du Tel : 598254306
- Health and Safety Officer: Giorgi karelidze , Tel :598580411
- Logistics Department: YangYang Tel :591947131
- Social Specialist: Koba Kryashvili, Tel : 595000668
- Translator: Tamar Tsivtsivadze, Tel : 599928552

7. Telephone Number of Doctors

Our company will hire medical doctors during May.

8. Hospital Information

National CDC, Georgia Tel :116001,00995-32-2192595

Georgia Medical First Aid Telephone :112

Ministry of Health of Georgia Tel :1505

Local Medical Emergency Service in Georgia: 112

24 hours on-call Contact details, full address:

Geo hospitals, Zestafoni

Address: 1) D. Aghmashenebeli N1; 2) Cross point of Kekelidze and Melkadze streets.

Phone: +995492252150; 032 250 52 22.

Local Medical Emergency Service in Georgia: 112

24 hours on-call Contact details, full address:

Kutaisi Central Clinic Hospital

Address: 142 Urnadze str. Kutaisi, Georgia

Phone: (0492) 253031; (0492) 253937.

Guizhou Highway Engineering Group Co is willing to work with the Georgian state, health authorities to fight the epidemic, hope that the epidemic can be eliminated as soon as possible.

Ձեռնարկ շահագործողների և արհմիակցության անդամների համար
HSE DEPARTMENT TRAINING #
职业安全与环境培训 #

Օրացույց
LOCATION:
ՀԷԷ
Ձեռնարկի օգնության համար
SUBJECT & REF NO:
Ձեռնարկի համար
TRAINING TUTOR:
ՄԻԿԻՍ
Տարի
DATE:
ԻԻԷ:

Interchange №2
Covid-19 coronavirus prevention
Giorgi Varelidze
24.05.2021

Համար №	Անուն և գործընկեր NAME 姓名	Արհմիակց NAME OF EMPLOYER 公司	Կարգավիճակ position 职位	Նշանակություն Signature 签名
1	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Ն. Կարգավիճակ
2	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
3	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
4	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
5	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
6	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
7	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
8	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
9	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
10	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
11	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
12	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
13	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
14	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
15	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
16	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ

17	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
18	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
19	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
20	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
21	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
22	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
23	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ	Կարգավիճակ
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Annex 5: Certification of Laboratory, DG Consulting LTD-Sustainable Development Solutions Caucasus (SDSC)

საქ GAC



სსიპ „აკრედიტაციის ერთიანი ეროვნული ორგანო –
აკრედიტაციის ცენტრი“

აკრედიტაციის მოწმობა
GAC-TL-0160

ადასტურებს, რომ
შპს „დგ კონსალტინგი“-ს
საგამოცდო ლაბორატორია
მდებარე: ქ. თბილისი, მ. ველოვანის #10
შეესადა და აკმაყოფილებს ეროვნული სტანდარტის
სსტ ისო/იეკ 17025:2010-ის მოთხოვნებს

აკრედიტებულია შემდეგ სფეროში: 1. გარემო (საცხოვრებელი და სამუშაო გარემო ღია და დახურულ სივრცეებში); 2. ჰაერი; 3. წყალი - სასმელი (ბუტილირებული, წყალმომარაგების და ა.შ.); 4. წყალი შედაპირული, ჩამდინარე; 5. წიაღაგი.
(იხ. დანართი „აკრედიტაციის სფერო“)

აკრედიტაციის ცენტრის
გენერალური დირექტორის

რეგისტრაციის თარიღი
15 აგვისტო 2017 წ.

ძალაშია
15 აგვისტო 2021 წ.

საქ GAC



0186 თბილისი, ავ. ყაზბეგის, კმ. 1042ა

დასტავი: სსიპ აკრედიტაციის ერთიანი ეროვნული ორგანო - აკრედიტაციის ცენტრი
დანიშნულებული შპს „დგ კონსალტინგი“-ს სას-ს რეგისტრაციის № 05-3038

GAC

LEPL "Unified National Accreditation Body - Accreditation Center"

Certificate of Accreditation

GAC-TL-0160

confirms that

Examination laboratory of "DG Consulting" Ltd.

Address: #10 M. Gelovani ave, Tbilisi

Is evaluated and meets the requirements of the national standard

SST ISO/IEC 17025:2010

Accredited in the following fields: 1. Environment (living and working environment in open and closed spaces); 2. air; 3. water - drinking (bottled, water supply, etc.); 4. water surface, wastewater; 5. soil.

(See Annex "Scope of Accreditation")

General Director of
the Accreditation Center

/signed/ /seal placed/

Registration date

15 August 2017.

Date of expiry

15 August 2021.

0186 Tbilisi, Al. Kazbegi Ave. #42a


Annex 6: Biological Water Analysis

	გამოცდის ოქმი N765			
	კონფიდენციალური	F3-ML-PR14-G-01 დ.თ 05.03.2020	გვ 1-1	
	შპს „მიკრობიოლოგი“-ს საგამოცდო ლაბორატორია ქ. ქუთაისი გაჩეხის ქ. №15 ☎ 0(431)247209 ✉ 599798786			
				სსტ ინოვაცი 17025-2017/2018 GAC-TL-0147

6.04.21წ.
(ოქმის გამოცემის თარიღი)

მომხმარებლის სახელი და საკონტაქტო ინფორმაცია:	შპს „გეოჯეოლ ჰაივეი ინჟინიარინგ გრუპ კო“ თბილისი, ოფისის ქ. N8
ნიმუშის დასახელება და რაოდენობა:	წყაროს წყალი 0,5ლ. სტ. ზოთილი
ნიმუშის საიდენტიფიკაციო კოდი:	10765
ნიმუშის აღების თარიღი და ადგილი:	ზესტაფონი, სოფ. შორაპანი 3.04.21.11 ^წ სთ
ნიმუშის მიღების თარიღი:	3.04.21.12 ^წ სთ
კვლევის დაწყებისა და დამთავრების თარიღი	3.04.21.13 ^წ სთ- 6.04.21.11 ^წ სთ
ნიმუშის აღების მეთოდი	- (დ. ქურდაძე)

№	გამოსაკვლევი მასწავლებლები	გაზომვის ერთეული	ნორმატივი არა უმეტეს	მიღებული შედეგი ¹	გამოცდნობის მეთოდი
1.	მეზოფილური აერობები და ფაკულტატური ანაერობები	კმ/მლ-ში 37°C 22°C	20 100	105 305	MYK.2.1.4.1184-03
2.	საერთო კოლიფორმული ბაქტერიები	300 მლ-ში	არ დაიშვება	აღმოჩნდა	MYK.4.2.1018-01
3.	E.Coli	300 მლ-ში	არ დაიშვება	არ აღმოჩნდა	გოსტი18963-73

ლაბორატორიის უფროსი: 



/ქებაზიძე/

¹ გამოცდის ოქმი მოთხოვნილი შედეგები მიეკუთვნება მხოლოდ გამოკვლეულ ნიმუშს

Annex 7: Connection Approval to Municipal Line for Worker Camp 3



საქართველოს გაერთიანებული
საქალაქმწარმოებელი კომპანია
UNITED WATER SUPPLY COMPANY OF GEORGIA

N 19185/1
14/12/2020

19185-1-2-202012142108



შპს „გუდიუილ ჰაივეი ენჟინერინგ გრუპი“-ს
უცხოური ხარამის ფილიალის წარმომადგენელს საქართველოში
მატონ. ი.ძიგნაძის

თქვენი წერილის პასუხად გაცნობებთ, რომ ქალაქ ზებტაფორში უზნაძის და
ათონელის ქუჩების წყალმომარაგების ლიზინის D-10088-ანი მილის ალტერნატიული
ქელის მოწყობის პროექტი მისაღებია. შესაბამისად წარმოდგენილ პროექტს ვითანხმებთ.

პატივისცემით,
ირაკლი ნაფეტვარიძე



დირექტორის მოადგილე ტექნიკურ საკითხებში

Annex 8: Approval Letter for WMP from MoEPA



გარემოს დაცვისა და
სოფლის მეურნეობის
სამინისტრო

MINISTRY OF ENVIRONMENTAL
PROTECTION AND AGRICULTURE
OF GEORGIA

N 4590/01
07/05/2021

საქართველო
GEORGIA

4590-01-2-202105071440



შპს „გულიჯოუ ჰაივეი ინჯინაირინგ გრუპ კო“-ს
წარმომადგენელს ბატონ ჩენ იუცანგ
მის: ქ. თბილისი, საბურთალოს რაიონი, იდესის ქ. N8

ბატონო ჩენ,

„კომპანიის ნარჩენების მართვის გეგმის განხილვისა და შეთანხმების წესის დამტკიცების შესახებ“ საქართველოს გარემოსა და ბუნებრივი რესურსების დაცვის მინისტრის 2015 წლის 4 აგვისტოს N211 ბრძანების მე-4 მუხლის პირველი პუნქტის შესაბამისად, გაცნობებთ რომ თქვენი 2021 წლის 23 აპრილის N7384 წერილით წარმოდგენილი შპს „გულიჯოუ ჰაივეი ინჯინაირინგ გრუპ კო“-ს (ს/კ:405373750) 2021-2023 წლების კომპანიის ნარჩენების მართვის გეგმა შეთანხმებული იქნა საქართველოს გარემოს დაცვისა და სოფლის მეურნეობის სამინისტროს მიერ.

პატივისცემით,

სოლომონ პავლიაშვილი

მინისტრის მოადგილე



Georgia
Ministry of Environmental Protection and
Agriculture of Georgia

N 4590/01

07/05/2021

4590-01-2-202105071440

To representative of Guizhou Highway Engineering Group Co Ltd
Mr. Chen Yuqiang
Add.: 8 Odessa str., Saburtalo district, Tbilisi

Mr. Chen,

Pursuant to the first paragraph of Article 4 of the Order N211 of the Minister of Environment and Natural Resources of Georgia of August 4, 2015, on the "review of the company waste management plan and the way of approval of the agreement", please be informed that your waste management plan for 2021-2023 years for Guizhou Highway Engineering Group Co. (ID: 405373750) submitted by your letter N7384 dated April 23, 2021 has been agreed by the Ministry of Environment Protection and Agriculture of Georgia.

Sincerely,

Solomon Pavliashvili

Deputy Minister

Annex 9: Contract with Zestafoni Municipality for Domestic Wastes

Cleaning Contract (Purchase of Services)

Zestafoni 02/02/2021

On the one hand, the non-profit (non-commercial) legal entity "Zestafoni Cleaning and Improvement Service Center" i/c 430024555 represented by Head of the Center Oleg Shvelidze (Legal Address: Parnavani Street #2) and on the other hand "Gutshou Highway Engineering Group Co" Ltd i/c 405373750 represented by Mr. Ling XU, legal address: 8 Odessa str. Tbilisi Georgia

We are guided by the current legislation of Georgia and the Resolution No. 02 of January 6, 2020 of the Zestafoni Municipality city council.

1. Subject of the contract

1.1 The subject of the contract is the disposal of household and industrial waste.

1.2 Procurement of services, classifier code CPV: 90000000

2 Purchase object (service)

2.1 The parties agree that the non-profit (non-commercial) legal entity - "Zestafoni Cleaning and Improvement Service Center" will ensure the organization of household and industrial waste disposal.

3 Cost of the contract

3.1 The cost of the purchase service is determined in GEL.

3.2 The other party is liable according to the amount of household and industrial (except construction, solid and specific - especially life-threatening waste) accumulated waste on a daily basis, to pay the fee for household and industrial waste set by the Zestafoni Municipality City Council Resolution № 02 of January 6, 2020 ("On Establishment of Local Fees in the Subordinate Territory of Zestafoni Municipality") 3100 GEL.

3.3 The other party is obliged to pay the monthly fee before the 25th of the relevant reporting month on the account of Zestafoni Municipality:
Revenue Code: 300193189
Acc. № 20012900
State Treasury Code TRUSGE 22

4 Rights and obligations of the parties

4.1 The Procuring Entity has the right to: - Request the Contractor to fulfill its obligations under the contract.

4.2 The Procuring Entity is obliged to: - Pay the payment within the time limit specified in the terms of the contract.

4.3 The supplier has the right: to demand from the buyer the reimbursement of the value of the object of purchase (service) under the terms of the contract.

4.4 The Supplier is obliged to fulfill the obligations under the contract in good faith.


4.5 The Procuring Entity and the Service Provider are required to notify each other in writing of any changes to the Contract.

5 Delay in the performance of the contract

5.1 If, in the course of the performance of the contract, the parties have encountered obstacles which prevent the performance of the obligations under the contract, the party shall immediately notify the other party in writing of the fact of delay, its possible duration and the causes. The recipient of the notification should inform the other party as soon as possible of the decision made by him.

5.2 If the parties agree to extend the term of the contract due to delays in the terms of the contract, this decision must be made in writing by amending the contract.

6 Violation of the terms of the contract



6.1 In case of violation of the terms and conditions provided for in this Agreement, the party shall be liable to a penalty of 0.2% of the value of the contract for each such day.

6.2 Payment of a fine does not release the party from fulfilling the obligation under the contract.

7 Amendments to the Contract

7.1 A change in the contract must be made with the signature of the authorized representative of both parties.

7.2 The initiator of the amendments shall notify the other party in writing of the relevant information.

8 Term of validity of the contract

8.1 The agreement is valid until February 1, 2022.

9 Revision of the terms of the contract

9.1 It is inadmissible to change the terms of this agreement, including the price, if these changes increase the total value of the contract or worsen the terms of the contract for the procuring entity, except in the cases provided for in Article 398 of the Civil Code of Georgia. The terms of the contract shall be revised in accordance with the rules established by the current legislation of Georgia.

10 Force majeure

10.1 The Parties shall not be liable for the full or partial non-performance of their obligations if they are caused by circumstances such as floods, hurricanes, earthquakes or other natural disasters, as well as war or hostilities if they have a direct impact on the performance of the contract. The term of the contract will be postponed until the end of the circumstances.

10.2 If the terms of the full or partial non-performance of the contractual obligations have been extended for more than 3 months, the parties have the right to terminate the contract without request.

10.3 The party must immediately notify the other party on the force majeure.

11 Disputes and the rules of their settlement

11.1 Disputes or differences of opinion between the parties in the performance of a contract may be resolved on the basis of joint negotiations between the two parties.

11.2 In case of disagreement between the parties, the dispute shall be settled in court on the basis of the legislation of Georgia.

12 Other conditions

12.1 The parties shall reimburse each other for damages in accordance with the legislation of Georgia.

12.2 A party has the right to transfer his rights and duties to a third party without the written consent of the other party.

12.3 In a relationship with a third party, the parties act on their own behalf, at their own expense and risk.

12.4 The agreement is drafted in Georgian in 2 (two) copies, each of which has equal legal force and is kept with the signatory parties. Any correspondence related to the contract must be in Georgian.

12.5 Any amendment or addition to this Agreement shall be effective only if it is in writing and signed by the Parties.

13 The signatories of the parties

Supplier

NNLE "Zestafoni Cleaning and Improvement Service Center"

Director: Oleg Shvelidze



Buyer

"Gutshou Highway Engineering Group Co" Ltd i/c 405373750

Director ChenYuyang



գաղափարի կայունություն
(ամենօրյան կյանք)

10.00001

1. Կայունություն
 2. Քննարկում և հաստատում
 3. Ստորագրում և ստորագրում
 4. Հաստատում և կիրառում

Պլան I. Կայունություն կայուն

1.1 Կայունության կայուն և անվտանգ կայունություն
 1.2 Ամենօրյան կյանքը, քաղաքացիական շարժում

Պլան II. Կայունություն (ամենօրյան)

2.1. Մտնել ամենօրյան հոտ ստանդարտ (ստանդարտ) ուղիղում ինչ - Կայունության գաղափարն և արժեքներն ամենօրյան կայունության և անվտանգ կայունության միջոցով

Պլան III. Կայունություն արժեքներ

3.1. Կայունության ամենօրյան արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 3.2. Կայունության ամենօրյան արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 3.3. Կայունության ամենօրյան արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 3.4. Կայունության ամենօրյան արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան IV. Կայունության արժեքներ

4.1. Կայունության արժեքները
 4.2. Կայունության արժեքները
 4.3. Կայունության արժեքները
 4.4. Կայունության արժեքները
 4.5. Կայունության արժեքները

Պլան V. Կայունության արժեքներ

5.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 5.2. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան VI. Կայունության արժեքներ

6.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 6.2. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան VII. Կայունության գաղափարի կայունություն

7.1. Կայունության գաղափարի կայունությունն ամենօրյան կայունության միջոցով
 7.2. Կայունության գաղափարի կայունությունն ամենօրյան կայունության միջոցով

Պլան VIII. Կայունության արժեքներ

8.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան IX. Կայունության արժեքներ

9.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 9.2. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան X. Կայունության արժեքներ

10.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 10.2. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 10.3. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան XI. Կայունության արժեքներ

11.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 11.2. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան XII. Կայունության արժեքներ

12.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 12.2. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 12.3. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 12.4. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 12.5. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Պլան XIII. Կայունության արժեքներ


13.1. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով
 13.2. Կայունության արժեքներն արժեքներն ամենօրյան կայունության միջոցով

Կայունության գաղափարի կայունությունն ամենօրյան կայունության միջոցով

Կայունության գաղափարի կայունությունն ամենօրյան կայունության միջոցով





Annex 10: Waste Register/Log

 F4 SHORAPANI-ARGVETA: WASTE LOG													
Location: F4, Zestafoni Municipality				Person Responsible: David Kurdadze									
WTN Number	Date mm/dd/	Waste Description	Source of Waste	Waste Classification (hazardous/non-hazardous/sewage)	Container type (bag, skip bin, bin, d	Quantity of Contai	Sewage	Inert	Hazardous	Non-hazardous	Waste Trans	Waste Recovering Entity	Receipt Notification (last copy of WTI YES / NO
GHEC-WTN-001	16.01.2021	Domestic Waste water	Raining Water in a septic tank	non hazardous	N/A	N/A				3000.00	Akaki Tskhadadze		YES
GHEC-WTN-002	16.02.2021	Domestic Waste water	Raining Water in a septic tank	non hazardous	N/A	N/A				3000.00	Akaki Tskhadadze		YES
GHEC-WTN-003	01.01.2021 31.01.2021	Domestic Waste	E60 EWH F4 Lot Shorapani Argveta	non hazardous	N/A	N/A				26.00	Egnate Sakeradze		NO
GHEC-WTN-004	01.02.2021 28.02.2021	Domestic Waste	E60 EWH F4 Lot Shorapani Argveta	non hazardous	N/A	N/A				26.00	Egnate Sakeradze		NO
GHEC-WTN-005	01.03.2021 31.03.2021	Domestic Waste	E60 EWH F4 Lot Shorapani Argveta	non hazardous	N/A	N/A				52.00	Egnate Sakeradze		YES
GHEC-WTN-006	01.04.2021 30.04.2021	Domestic Waste	E60 EWH F4 Lot Shorapani Argveta	non hazardous	N/A	N/A				26.00	Egnate Sakeradze		YES
GHEC-WTN-007	01.05.2021 31.05.2021	Domestic Waste	E60 EWH F4 Lot Shorapani Argveta	non hazardous	N/A	N/A				26.00	Egnate Sakeradze		YES
Total for (Month) (Year)							0.00	0.00	0.00	6156.00			
Subtotal Up to Date							0.00	0.00	0.00	6156.00			
(Month)/(Year)													
Total for (Month) (Year)							0.00	0.00	0.00	0.00			
Subtotal Up to Date							0.00	0.00	0.00	6156.00			
(Month)/(Year)													
Total for (Month) (Year)							0.00	0.00	0.00	0.00			
Subtotal Up to Date							0.00	0.00	0.00	6156.00			

Annex 11: Waste Transfer Notes

WASTE TRANSFER NOTE 废物转移注意		Waste Transfer Note	
Consignment Reference No / 废物转移单编号	GHCC - WTN - 002	DATE / 日期	16.02.2021
SECTION A - DESCRIPTION OF THE WASTE / A 节 - 废物描述 / 废物描述			
1. Type of waste / 废物种类 / 废物种类			
<input checked="" type="checkbox"/> Hazardous / 危险废物 / 危险废物 <input type="checkbox"/> Non-Hazardous / 非危险废物 / 非危险废物			
2. Name of waste material and weight / 废物名称及重量 / 废物名称及重量			
Domestic Waste Water 3000 L / 家庭废水 3000 升 / 家庭废水 3000 升			
3. How is the waste contained / 废物如何包装 / 废物如何包装			
3000 litre Drum / 3000 升铁桶 / 3000 升铁桶			
4. Total Quantity of waste / 废物总量 / 废物总量			
3000 kg / 3000 公斤 / 3000 公斤			
5. Number of receptacles / 接收器数量 / 接收器数量			
N/A / 不适用 / 不适用			
SECTION B - ORIGINATOR OF THE WASTE / B 节 - 废物产生者 / 废物产生者			
1. Generator Name / 废物产生者名称 / 废物产生者名称			
GHCC			
2. Site / 废物产生者地址 / 废物产生者地址			
Main Camp			
SECTION C - PERSON TRANSPORTING THE WASTE / C 节 - 废物运输人 / 废物运输人			
1. Name / 姓名 / 姓名			
AKANI TSKADADZE			
2. Company / 公司 / 公司			
GWP			
3. Vehicle / 车辆 / 车辆			
DAR-765			
SECTION D - RECEIPT DETAILS / D 节 - 接收详情 / 接收详情			
1. Date and time of receipt / 接收日期和时间 / 接收日期和时间			
2. Name of receiving facility / 接收设施名称 / 接收设施名称			
3. Quantity Received / 接收数量 / 接收数量			
SECTION E - SIGNATURES / E 节 - 签名 / 签名			
Waste Producer / 废物产生者 / 废物产生者	Waste Carrier / 废物承运人 / 废物承运人	Receiving Facility / 接收设施 / 接收设施	
			

WASTE TRANSFER NOTE 废物转移注意		Waste Transfer Note	
Consignment Reference No / 废物转移单编号	GHCC - WTN - 004	DATE / 日期	01.03.2021 to 31.03.2021
SECTION A - DESCRIPTION OF THE WASTE / A 节 - 废物描述 / 废物描述			
1. Type of waste / 废物种类 / 废物种类			
<input checked="" type="checkbox"/> Hazardous / 危险废物 / 危险废物 <input type="checkbox"/> Non-Hazardous / 非危险废物 / 非危险废物			
2. Name of waste material and weight / 废物名称及重量 / 废物名称及重量			
Domestic Waste / 家庭废物 / 家庭废物			
3. How is the waste contained / 废物如何包装 / 废物如何包装			
Domestic Waste Truck / 家庭废物卡车 / 家庭废物卡车			
4. Total Quantity of waste / 废物总量 / 废物总量			
20 to 25,000 kg / 20 到 25,000 公斤 / 20 到 25,000 公斤			
5. Number of receptacles / 接收器数量 / 接收器数量			
N/A / 不适用 / 不适用			
SECTION B - GENERATOR OF THE WASTE / B 节 - 废物产生者 / 废物产生者			
1. Generator Name / 废物产生者名称 / 废物产生者名称			
GHCC			
2. Site / 废物产生者地址 / 废物产生者地址			
F4 Section Main Camp			
SECTION C - PERSON TRANSPORTING THE WASTE / C 节 - 废物运输人 / 废物运输人			
1. Name / 姓名 / 姓名			
Solomon Agre			
2. Company / 公司 / 公司			
NCLA "National Cleaning and Improvement Service Center"			
3. Vehicle / 车辆 / 车辆			
KUM11K			
SECTION D - RECEIPT DETAILS / D 节 - 接收详情 / 接收详情			
1. Date and time of receipt / 接收日期和时间 / 接收日期和时间			
2. Name of receiving facility / 接收设施名称 / 接收设施名称			
3. Quantity Received / 接收数量 / 接收数量			
SECTION E - SIGNATURES / E 节 - 签名 / 签名			
Waste Producer / 废物产生者 / 废物产生者	Waste Carrier / 废物承运人 / 废物承运人	Receiving Facility / 接收设施 / 接收设施	
			





WASTE TRANSFER NOTE 废物转移注意
Բարձրագույն զրևակերպողական Գրասխանագրք

Consignment Reference No. Ներկայացման համար	GHBC - WTN - 006	DATE ամսաթիվ	01.04.2021 to 30.04.2021
SECTION A - DESCRIPTION OF THE WASTE / Ա Մ-նպատակ / Նպատակ - Բարձրագույն զրևակերպողական			
1. Type of waste / Ծածկում / Բարձրագույն զրևակերպողական		D - Hazardous / Զարգում / Բարձրագույն զրևակերպողական <input checked="" type="checkbox"/> Non-Hazardous / Զարգում / Բարձրագույն զրևակերպողական	
2. Name of waste material and weight / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական Domestic Waste / Բարձրագույն զրևակերպողական զրևակերպողական			
3. How is the waste contained / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական		Domestic Waste Truck / Բարձրագույն զրևակերպողական զրևակերպողական զրևակերպողական	
4. Total Quantity of waste / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական զրևակերպողական			25m ³
5. Number of receptacles / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական զրևակերպողական			N/A
SECTION B - GENERATOR OF THE WASTE / Բարձրագույն զրևակերպողական զրևակերպողական			
1. Generator Name / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական		GHBC	
2. Site / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական		F4 Sector EIO EWH	
SECTION C - PERSON TRANSPORTING THE WASTE / Բարձրագույն զրևակերպողական զրևակերպողական			
1. Name / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական		Sukarudin Egan	
2. Company / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական		NCLR "Zenatrol Cleaning and Improvement Service Center"	
3. Vehicle / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական		BE677LB	
SECTION D - RECEIPT DETAILS / Բարձրագույն զրևակերպողական զրևակերպողական			
1. Date and time of receipt / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական			
2. Name of receiving facility / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական			
3. Quantity Received / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական			
SECTION E - SIGNATURES / Բարձրագույն զրևակերպողական զրևակերպողական			
Waste Producer Բարձրագույն զրևակերպողական զրևակերպողական	Waste Carrier Բարձրագույն զրևակերպողական զրևակերպողական	Receiving Facility Բարձրագույն զրևակերպողական զրևակերպողական	

WASTE TRANSFER NOTE 废物转移注意 Բարձրագույն զրևակերպողական Գրասխանագրք			
Consignment Reference No. Ներկայացման համար	GHBC - WTN - 007	DATE ամսաթիվ	01.05.2021 to 31.05.2021
SECTION A - DESCRIPTION OF THE WASTE / Ա Մ-նպատակ / Նպատակ - Բարձրագույն զրևակերպողական			
1. Type of waste / Ծածկում / Բարձրագույն զրևակերպողական		D - Hazardous / Զարգում / Բարձրագույն զրևակերպողական <input checked="" type="checkbox"/> Non-Hazardous / Զարգում / Բարձրագույն զրևակերպողական	
2. Name of waste material and weight / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական Domestic Waste / Բարձրագույն զրևակերպողական զրևակերպողական			
3. How is the waste contained / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական		Domestic Waste Truck / Բարձրագույն զրևակերպողական զրևակերպողական զրևակերպողական	
4. Total Quantity of waste / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական զրևակերպողական			25m ³
5. Number of receptacles / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական զրևակերպողական			N/A
SECTION B - GENERATOR OF THE WASTE / Բարձրագույն զրևակերպողական զրևակերպողական			
1. Generator Name / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական		GHBC	
2. Site / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական		F4 Sector EIO EWH	
SECTION C - PERSON TRANSPORTING THE WASTE / Բարձրագույն զրևակերպողական զրևակերպողական			
1. Name / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական		Sukarudin Egan	
2. Company / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական		NCLR "Zenatrol Cleaning and Improvement Service Center"	
3. Vehicle / Ծածկում / Բարձրագույն զրևակերպողական զրևակերպողական		BE677LB	
SECTION D - RECEIPT DETAILS / Բարձրագույն զրևակերպողական զրևակերպողական			
1. Date and time of receipt / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական			
2. Name of receiving facility / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական			
3. Quantity Received / Ծածկում և զանգված / Բարձրագույն զրևակերպողական զրևակերպողական			
SECTION E - SIGNATURES / Բարձրագույն զրևակերպողական զրևակերպողական			
Waste Producer Բարձրագույն զրևակերպողական զրևակերպողական	Waste Carrier Բարձրագույն զրևակերպողական զրևակերպողական	Receiving Facility Բարձրագույն զրևակերպողական զրևակերպողական	



Annex 12: Training Sheets

Qianxinan zhuanqianhuanyuan de zhiye anquan huanyuan chunxiang #
HSE DEPARTMENT TRAINING #
职业安全与环境培训 #

EMULATOR LOCATION: GHEC office
 位置
 SUBJECT: General HSE Training
 培训主题/课程
 TRAINING TUTOR: Georgi Koralidze / David Kurdandze
 培训导师

序号	EMPLOYEE NAME	NAME OF EMPLOYER	position	日期	Signature
1	era tpyob	GHEC	ishan m...	19.05.21	[Signature]
2	zoban d...shn	GHEC	sh...as...	19.05.21	[Signature]
3	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
4	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
5	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
6	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
7	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

Qianxinan zhuanqianhuanyuan de zhiye anquan huanyuan chunxiang #
HSE DEPARTMENT TRAINING #
职业安全与环境培训 #

EMULATOR LOCATION: Interchange N2
 位置
 SUBJECT: General HSE Training
 培训主题/课程
 TRAINING TUTOR: Georgi Koralidze / David Kurdandze
 培训导师

序号	EMPLOYEE NAME	NAME OF EMPLOYER	position	日期	Signature
1	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
2	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
3	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
4	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
5	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
6	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
7	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
8	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
9	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
10	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
11	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
12	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
13	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
14	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
15	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
16	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]
17	osobh k...fuz...	GHEC	osh...	19.05.21	[Signature]

Annex 13: Complaints Log

#	Recipient	Date Received	Name, contact of Complainant & Location	Complaint Category	Complaint Description	Resolution Description	Resolution	Status
1	Government	05-11-20	NGO ``Green World`` represented by Mr.Nugzar Meladze Kveda Sakara (PK110+00)	Damage to Infrastructure / Assets	NGO ``Green World`` stated that the groundwater well so-called ``Gurulebis Tskaro`` located in village Kveda Sakara may be dried up owing the planned construction works.	On 05.11.2020 the Engineer and the Contractor received the complaint through the Employer's letter (N 2-05/12578); On 30.11.2020 the Employer was replied through the letter (021-CSAE60F4-UBM-GE) that a meeting has been held with attendance of the Contractor, the Engineer, the local settlers of the area, Municipality of Zestafoni and the initiative group of NGO ``Green Earth`` on November 11, 2020. Then, it has been agreed that before starting to work, the Contractor shall install fences on surrounding that area of it with radius of 30 m from the protective isolation, to prevent any negative impact on the groundwater well ``Gurulebis Spring``.(Note: The nearest project tunnel is located within approximately 1260 meters for the groundwater well ``Gurulebis Tskaro``. Hence, it shall not be dried up owing the planned construction work).	Forwarded to CC	Closed
2	RD	25-12-20	1) Nino Saralidze ID: 18001017145 Mob N: 599635061 2) Ramaz Kurtsikidze ID: 18001016998 Mob N: 555416275 Zeda Sakara (PK90+00)	Inclusion in LARP	The government acquired the part of Ms.Nino's and Mr.Ramaz's land plots and then they stated that the remaining parts (C/C 32.09.43.960 & C/C 32.09.43.964) became useless as access to the land plots are impossible. Hence, the land owners demand inclusion in LARP.	On 25.12.2020 the Engineer received the complaint through the Employer's letter (N 2-12/14764); On 20.01.2021 the Employer was informed through the formal letter (093-CSAE60F4-UBM-GE) that the complainants' land plots will be provided with the designed Local Road N12, after commissioning of the Project Highway. Besides, it was noted that, in order to avoid a temporary blocking for the existing access road of the mentioned land plots, the Contractor shall firstly carry out the construction of the designed Local Road N12 and then - the Project Highway (PK90+00);	Rejected 20-01-21	Closed

3	Government	20-01-21	Nani Gorgadze ID: 18001009233 Mob N: 557268896 Zestafoni (PK95+00)	Damage to Infrastructure / Assets	She stated that the apartment block is in danger as Project tunnel should be excavated under the residential building within 13 meters from the ground level. Hence, the residents of the apartment block demand that the risk should be evaluated by the appropriate commission.	On 20.01.2021 the Engineer received the complaint through the Employer's letter (N 2-05/476); On 21.01.2021 the joint meeting was implemented with the local residents in purpose to investigate the complaint matter and inform them the Project related information;		Open
4	Government	03-02-21	Phatima Khijakadze ID: 18001003098 Mob N: 599209207 Zestafoni (PK80+50)	Disturbance: Noise / Vibration / Dust	She stated that after commencement of construction works her residential area is disturbed by vibration, noise and dust, which also threatens her health. Hence, she demands necessary corrective actions.	On 03.02.2021 the Engineer received the complaint through the Employer's letter (N 2-05/1105);		Open
5	Government	13-03-21	Naziko Svanidze ID: 18001006879 Mob N: 555230978 (PK93+00), Zestafoni, G.Nikoladze St.	Damage to Infrastructure / Assets	She stated that her residential house (C/C 32.10.33.811) is in danger due to the planned construction work. Hence, she demands that the situation shall be investigated.	On 12.03.2021 the Engineer received Ms. Naziko Svanidze's concern through the Employer's letter (N 2-12/3406); On 19.03.2021 the complaint letter was forwarded to the Contractor and it was required to submit the additional information regarding the proposed third-party candidate subcontractor, as follows: - Company profile, - Method of statement, - Working experience in foreign countries, - The experience list and contract sample of the similar works, - Clarification about standart of the Company Certificate (0177-CSAE60F4UBM-GE); On 27.04.2021 the Contractor proposed the company	Forwarded to CC	Open

						SDSC Ltd (I/C 405335025) to carry out the pre-construction survey of the existing buildings (20210427-0184-GHEC-UBM);		
6	RD	22-03-2021	<p>1) Iuri Museridze ID: 18001028822 Mob N: 598170557</p> <p>2) Maka Meseridze ID: 18001003998 Mob N: 598170587 (PK81+50), Zestafoni, Uznadze St.</p>	Restriction or loss of access	They stated, that the access of the agricultural land plots (C/C 32.09.43.312 & C/C 32.09.43.966) is blocked due to the ongoing construction activities and he is unable to carry out land cultivation with a tractor. Eventually, they demands that the access road shall be restore, as soon as possible.	<p>On 22.03.2021 the Engineer received the complaint of Mr. Iuri Meseridze through the Employer's letter (N 2-05/4094);</p> <p>On 23.03.2021 the Engineer received the complaint of Ms. Maka Meseridze through the Employer's letter (N 2-05/4193);</p> <p>On 24.03.2021 the joint site inspection was implemented and endorsed that the pre-existing motorway access of the aforementioned land plots is blocked due to the arrangement of the motorway access for the batching Plant #2, but an alternative access can be provided;</p> <p>On 01.04.2021 the Contractor was instructed to provide the alternative motorway access for the mentioned land plots, then sign a consensual agreement with the complainants and submit to the Engineer, ASAP (0207-CSAE60F4-UBM-GE);</p> <p>On 05.04.2021 the Employer was informed about the above-mentioned findings of the joint site inspection. Also, it was noted, that the aforementioned land plots will be provided with the project Local Road N11, after completion of the construction work (0211-CSAE60F4-UBM-GE);</p> <p>On 13.04.2021 the site inspection was implemented and it found out that the alternative access is provided by the Contractor;</p> <p>On 29.04.2021 the Contractor submitted the agreement signed by the both parties, stating that the alternative access for the land plots are provided and the land owners no longer have claim against the Contractor (20210429-0193-GHEC-UBM);</p>	Accepted	Closed
7	Government	29-03-2021	Naziko Chankotadze ID: 18001041007 Mob N:	Damage to Infrastructure / Assets	She stated that her homestead land plot (C/C 32.10.32.445) is puddled due to changed terrain at the adjacent area	<p>On 15.03.2021 the site inspection was implemented, as a result it found out that the Workers' Camp #3 arranged in the elevated place compared to the nearby homestead land plot results that a rain water goes to the mentioned land plot and it is puddled;</p> <p>On 22.03.2021 the Contractor was instructed to carry out</p>	Forwarded to CC	Open

			593417076 (PK81+20), Zestafoni, Uznadze St.	<p>and the wire mesh fence of her homestead land plot is damaged. Also, she stated that a living condition is deteriorated with a noise caused by the Contractor's construction activities near to her residential area. Moreover, she stated that there is existing landslide in the area where her residential house is located and the project construction work worsen the situation. Hence, she demands that the issues shall be investigated and resolved.</p>	<p>remedial actions to resolve the flooding issue (0178-CSAE60F4-UBM-GE); On 29.03.2021 the Engineer received the complaint through the Employer's letter (N 2-05/4582); On 30.03.2021 the site inspection was implemented and it found out that the fence of the homestead land plot is recovered, but the puddling issue still remains unresolved; On 16.04.2021 the Contractor was reminded to submit the additional information regarding the proposed third-party candidate subcontractor for the pre-construction survey of the existing buildings, as follows: - Company profile, - Method of statement, - Working experience in foreign countries, - The experience list and contract sample of the similar works, - Clarification about standart of the Company Certificate (0225-CSAE60F4-UBM-GE); On 16.04.2021 the Contractor replied that the concrete drain channel has been arranged between Ms. Chankotadze's land plot and Worker's Camp N3 (20210416-0167-GHEC-UBM); On 27.04.2021 the Contractor proposed the company SDSC Ltd (I/C 405335025) to carry out the pre-construction survey of the existing buildings (20210427-0184-GHEC-UBM); On 28.04.2021 the Contractor was informed that the drain channel arranged by the Contractor is not sufficient to prevent flooding of the mentioned homestead land plot. Therefore, it was instructed once again to arrange the channel in that way to prevent flooding for the homestead land plot of Ms. Chankotadze (0250-CSAE60F4-UBM-GE); On 28.04.2021 the Employer was informed that the numerous structural cracks are on the walls of the mentioned residential house, which should be the result of the existing landslide. According to constuction drawings of Tunnel #5, the excavation works will be carried out within approx. 88 meters from the house of Ms. Chankotadze. This poses a potential for further damage to the residential house, the works will worsen the existing landslide (0251-CSAE60F4-UBM-GE);</p>	
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8	RD	02-04-21	Jumber Matsaberidze ID: 18001011071 & Maia Getsadze ID: 01013000219 represented by Eteri Talakhadze ID: 18001001149 Mob N: 599101727, Zestafoni, Uznadze St.	Inclusion in LARP	They stated that there is existing landslide in the area where their residential houses (C/C 32.10.32.144 & C/C 32.10.32.516) are located. Hence, these houses getting damage (cracks) due to existing landslide and the ongoing construction work accelerates the landslide process and damaging of the houses. Eventually, they demanded that the issue shall be investigated and the houses shall be acquired.	On 02.04.2021 the Engineer received the statement through the Employer's letter (N 2-12/5017); On 16.04.2021 the Contractor was reminded to submit the additional information regarding the proposed third-party candidate subcontractor for the pre-construction survey of the existing buildings, as follows: - Company profile, - Method of statement, - Working experience in foreign countries, - The experience list and contract sample of the similar works, - Clarification about standart of the Company Certificate (0225-CSAE60F4-UBM-GE); On 16.04.2021 the Employer was informed there are numerous structural cracks on the walls of the mentioned residential houses, which appear to be result of the existing landslide. Also, it was noted, that according to construction drawings of Tunnel #5, the excavation works will be carried out within approx. 54 meters from the house of Mr. Matsaberidze and approx. 57 meters from the house of Ms. Getsadze. This poses a potential for further damage to the residential homes. The works will worsen the existing landslide (0226-CSAE60F4-UBM-GE); On 27.04.2021 the Contractor proposed the company SDSC Ltd (I/C 405335025) to carry out the pre-construction survey of the existing buildings (20210427–0184–GHEC-UBM);	Forwarded to RD	Open
9	Government	22-04-2021	Zaza Kiknavelidze ID: 18001036784 Mikheil Mchedlidze ID: 18001013255 Mirian Mchedlidze ID: 18001055529 Mob N: 557580328,	Damage to Infrastructure / Assets	They stated that the pasture, near to their living area, is destroyed due to ongoing construction works. Hence, they demand compensation.	On 22.04.2021 the Engineer received the statement through the Employer's letter (N 2-12/6124);	Under review	Open

			Zestafoni, Marjanishvili St.						
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Annex 14: Official Registration Document of SDSC for Pre-construction Survey of Houses



საქართველოს იუსტიციის სამინისტრო
სსიპ საჯარო რეგისტრის ეროვნული სააგენტო

ამონაწერი შენარშეთა და არასამშენარშეთო (არაკომერციული) იურიდიული პირების რეგისტრიდან

განაცხადის რეგისტრაციის ნომერი, შიშაფების თარიღი: B20078893, 02/10/2020 12:25:07

სუბიექტი

საფორმო სახელწოდება: შპს ესტეზი
 საშარტლებრივი ფორშა: შებლდული პასუხისშეგებლობის საშოგადოება
 საიდენტიფიკაციო ნომერი: 405335025
 რეგისტრაციის ნომერი, თარიღი: 15/05/2019
 შარეგისტრირებული ორგანო: სსიპ საჯარო რეგისტრის ეროვნული სააგენტო
 იურიდიული შისამართი: საქართველო, თბილისი, საბურთალოს რაიონი, შ. თამარაშვილის გამშირი, N13, ბ. 17

ფამატებითი ინფორმაცია:

ელ. ფოსტა: sdscaucasus@gmail.com

ფამატებითი ინფორმაციის წარდოდინებამდე პასუხისშეგებელი ინფორმაციის შიშოგადოება ჰარო.

ინფორმაცია ლიკენდაციის/ რეორგანიზაციის/ გადახდისუნარობის პროცესის შიშდინარეობის შეხახებ

რეგისტრირებული არ არის

ხელშდღვანელობა/ნარშოშადგენლობა

- დირექტორი - გიორგი გულიაშვილი, 01029007510

პარტნიორები

მესაკუთრე	წილი	წილის მმართველი
ლაშა იაკობიძე, 01027009280		33%
გიორგი გულიაშვილი, 01029007510		33%
მარინა არაბიძე, 01009014394		34%

ვალდებულება

რეგისტრირებული არ არის

ყადაღა/აკრძალვა

რეგისტრირებული არ არის

საგადასახადო გირავნობა/იპოთეკის უფლება

რეგისტრირებული არ არის

მოდრავ ნივთებსა და არამატერიალურ ქონებრივ სიკეთეზე გირავნობა/ლიზინგის უფლება






რეგისტრირებული არ არის

მოვალეობა რეესტრი



რეგისტრირებული არ არის



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- დოკუმენტის ნამდვილობის გადამოწმება შესაძლებელია საჯარო რეესტრის ეროვნული სააგენტოს ოფიციალურ ვებ-გვერდზე www.napr.gov.ge;
 - ამონაწერის მიღება შესაძლებელია ვებ-გვერდზე www.napr.gov.ge , ნებისმიერ ტერიტორიულ სარეგისტრაციო სამსახურში, იუსტიციის სახლებსა და სააგენტოს ავტორიზებულ პირებთან;
 - ამონაწერში ტექნიკური ხარვეზის აღმოჩენის შემთხვევაში დაგვიკავშირდით: 2 405405 ან პირადად შეაქვით განაცხადი ვებ-გვერდზე;
 - კონსულტაციის მიღება შესაძლებელია იუსტიციის სახლის ცხელ ხაზზე 2 405405;
 - საჯარო რეესტრის თანამშრომელთა შრიდან უკანონო ქმედების შემთხვევაში დაგვიკავშირდით ცხელ ხაზზე: 08 009 009 09
 - თქვენთვის საინტერესო ნებისმიერ საკითხთან დაკავშირებით მოგვწერეთ ელ-ფოსტით: info@napr.gov.ge


Annex 15: Weekly Construction MoM




  		MINUTES OF MEETING Shorapani - Argveta - F4 (E60 Highway Route)		 	
		MONTHLY PROGRESS MEETING			
LOCATION	UBM Office (Siktarva)	SUBJECT :	Monthly Progress Meeting - May 2021	No:7	
		DATE :	11/05/2021		
ATTENDANCES					
NO	ROAD DEPARTMENT OF GEORGIA	UBM	GHEC		
1		Sefer Oz	Chen Yu Qiang		
2		Burhan Suat	Wang Young		
3		Mamuka Chantladze	Zhao yue Dung		
4		Murat Ozgur Ildiz	Guo Feng Bo		
5		Tengizi Lomidze	Zhou Chen		
6		Giorgi Tsibadze	Tian Min		
7		Joni Gelashvili	Davit Kurdadze		
8			Giorgi Karelidze		
AGENDA OF THE MEETING				Agenda No	Date
1	Engineers' office preparation		M-001	30/Nov/2020	
2	Disposal area		M-002	30/Dec/2020	
3	SEMP&SSEMP		M-001	30/Nov/2020	
4	The cutting-tree process		M-003	26/Jan/2021	
5	Changing status of the lands		M-001	30/Nov/2020	
6	Bridges and piles		M-002	30/Dec/2020	
7	Earthworks Calculation Delivery		M-004	08/Feb/2021	
8	Issue about tunnels		M-005	01/Mar/2021	
9	The Steel beams		M-005	01/Mar/2021	
10	Contractor implements mitigations for environmental impacts and the third-party subcontractors		M-005	16/Mar/2021	
11	Cashflow reports		M-005	23/Mar/2021	
12	Dumpsite #1		M-005	23/Mar/2021	
13	Language barrier		M-006	06/Apr/2021	
14	Incomplete initial design		M-006	06/Apr/2021	
15	The three-way meeting		M-006	27/04/2021	
16	ISP Magti		M-006	27/Apr/2021	

001-1

		MINUTES OF MEETING Shorapani - Argveta - F4 (E60 Highway Route)				
		MONTHLY PROGRESS MEETING				
LOCATION	UBM Office (Siktarva)	SUBJECT :	Monthly Progress Meeting - May 2021		No:7	DATE : 11/05/2021
DECISIONS/AGREEMENT						
No	Decision/Agreement	Agreement Date	Deadline	Responsible	Act	Status
1	The Contractor has fulfilled some of its responsibilities regarding the engineer's office and accommodation facility specified in TS Technical Specifications Appendix 1 and continues to provide a lack of some items.	30/Dec/2020		Contractor		Ongoing
2	The disposal area for the excess material from the excavation, location issue is now solved, and procedures are ongoing. the contractor has applied to the state property administration and environmental affairs authority. The plans were approved but not officially received by the contractor.	30/Dec/2020	25/May/2021	Contractor		Partly-Completed
3	Consulting with the environmental team and check out the SEMP and SSEMP, to start a batching plant and any other activities aside environmental management plan is required. The concrete plants are erected and to be launched, after completion of the (SEMP and SSEMP) EMP procedure soon. The SEMP and SSEMP are under consideration by the Engineer. The works on Batching plant #2 are ongoing.	30/Nov/2020	25/May/2021	Contractor		Ongoing
4	The cutting and removal of trees process are ongoing at interchange #1, based on an agreement with the ranger to hand over the cut trees. the Contractor and local forest entity jointly find out the other trees and they identify the quantity and inform the Engineer and RD about the addition of the trees to be removed. There is an issue near bridge #1, permission is needed from the Ministry Of Economy and Sustainable Development of Georgia and the local municipality. The process will take about a month to resolve.	26/Jan/2021	30/Jun/2021	RD/Contractor		Ongoing
5	In the R.O.W. Area, Land status needs to be changed from agricultural land to non-agricultural one to avoid legal penalties. Land to be used for these purposes needs to have a non-agricultural status. The issue should be solved with the Ministry Of Economy and Sustainable Development of Georgia and the local municipality. The process will take about a month to resolve.	30/Nov/2020	30/May/2021	RD/Contractor		Ongoing

			MINUTES OF MEETING				
			Shorapani - Argveta - F4 (E60 Highway Route)				
			MONTHLY PROGRESS MEETING				
LOCATION	UBM Office (Siktarva)	SUBJECT :	Monthly Progress Meeting - May 2021			No:7	DATE : 11/05/2021
6	<ul style="list-style-type: none"> The site investigations have revealed that additional boreholes (4 in total) are needed particularly for each pier in the river basin on bridge #4. The bridge works will be done in the following order: Bridge #3, bridge #6 and its underpass, bridge #1, bridge #2. The contractor considered the Engineer's opinion and has hired two subcontractors for drilling Piles. The Pile drilling works start on the 15th of April. The piling program should be submitted to the Engineer and the specifications of two piling machines should be submitted as well. The contractor has informed the engineer about the sedimentary rock situation on Tunnel #4. The investigation has revealed that from 11m to 13m depth the rock formation is soft. The RD representative suggests continuing drilling to 20m to confirm findings. 	30/Dec/2020	19/May/2021	Contractor		Ongoing	
7	<ul style="list-style-type: none"> The Engineer informed the contractor to work according to the initial drawing and if there is a significant mistake or lack of items in initial drawings than contractor will submit revised plans to the Engineer The contractor informed Engineer that the construction of the west portal of tunnel #5 will be finished in a 2-month time. Steel elements for Tunnels will be prepared in a workshop near interchange 1. The contractor informed Engineer that the micro-pile production capacity of the contractor is 6 micro-piles per day, the production of the tunnel #5 micro-piles will take 2-3 months. Steel elements for Tunnels will be prepared in a workshop for interchange 1 	09/Apr/2021	30/May/2021			Ongoing	
8	<p>The engineer inquires about an additional local workforce. The engineer reminds the contractor about the 1/3 ratio on the workforce. The Engineer will give the contractor renewed Engineer personal list in one week's time.</p>	09/Mar/2021	27/May/2021			Ongoing	

		MINUTES OF MEETING Shorapani - Argveta - F4 (E60 Highway Route)					
		MONTHLY PROGRESS MEETING					
LOCATION	UBM Office (Siktarva)	SUBJECT :	Monthly Progress Meeting - May 2021			No:7	DATE : 11/05/2021
9	The contractor has informed the Engineer and RD representative that they have reached an agreement with F2 and the steel beams for bridges will be provided by them. The Steel beam production capacity is 1500 beams per month and the required 18000 beams will be provided in 14-month time. The Engineer reminds the contractor about the method statement and work program, the method statement for reinforced bridges should be submitted to the Engineer, and the work program for steel bridges should be submitted to the Engineer.			07/May/2021		Ongoing	
10	<ul style="list-style-type: none"> The Contractor shall implement mitigations to environmental impacts, and the Engineer will conduct Monitoring activities to verify the data collecting methodology used. The Engineer suggests that is a requirement of all mitigation plans because the framework is required for the residents' complaint responses. The Contractor has hired the third-party subcontractor to carry out the pre-construction survey of the existing buildings/structures. The contractor informed the Engineer, the pre-construction survey in two weeks. The pre-construction survey of tunnel 5 should be submitted to RD. The contractor should submit the minutes of the meeting and all documents produced during the contractor's meetings with local citizens. And subsequent agreements with local citizens. 	09/Mar/2021		30/May/2021		Ongoing	
11	The cash flow reports should be modified according to the work program and submitted with the weekly work plan. Both documents should be submitted at the same time but as two different files. The Engineer and the contractor will work together to revise and improve the cash flow form.					Ongoing	
12	The Employers representative has informed the contractor that inspection of the dumpsite has been done by the Employer and the Employer suggests the construction of the temporary barrier using construction waste roks, near the river on dumpsite #1.					Ongoing	
13	The contractor has informed the Engineer that the contractor's site personal will be able to speak English if not an interpreter, will be provided.					Ongoing	

MINUTES OF MEETING		Shorapani - Argveta - F4 (E60 Highway Route)		MONTHLY PROGRESS MEETING				
								
LOCATION	UBM Office (Siktarva)	SUBJECT	Monthly Progress Meeting - May 2021	No:7	DATE: 11/05/2021			
14	The Engineer and the contractor have informed the RD representative about the lack of items in the initial design drawings and some missing design items of the project. Some of the missing document should be substituted by the contractor, as thous documents are working drawings.				Ongoing			
15	The Engineer and the contractor proposed a three-way meeting with RD to discuss the following issues: working on the weekend, night shifts, and overtime.				Ongoing			
16	The ISP Magti's representative has informed the contractor and the Engineer that after they will receive the RoW plan of the F4 project they will mark all fiber optic cable locations for the contractor. The ISP Magti has received the RoW and the contractor is waiting for their response.				Ongoing			
No	NCR NO	Issue Date	Location	Subject	CAR	Responsible	Deadline	Status
REPRESENTATIVES			CONTRACTOR		ENGINEER		EMPLOYER	
NAME, SURNAME			CHEN YU QIANG (CR)		SEFER OZ (TL)		ALEXANDER PREDEYN (RE)	
DATE								
SIGNATURE			