

Georgia: Batumi Bypass Road Project

Attachment 2 Construction of Bakurtsikhe-Tsnori Road Section

Project Number: 50064-001

Loans Numbers: Loan 3520-GEO: Batumi Bypass Road Project - ADB

Semestral Report (July - December 2023)

January 2024

Semi-annual Environmental Monitoring Report

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

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1 INTRODUCTION

1.1 Preamble

1. The project, managed by the Roads Department under the Ministry of Regional Development and Infrastructure, aims at the Supervision of the Construction of the Bakurtsikhe -Tsnori Road Section, financed by the Asian Development Bank (ADB)
2. This road section is part of the international Tbilisi- Bakurtsikhe -Lagodekhi (Azerbaijan Border) road/highway, which is the main route connecting Tbilisi and the Kakheti Region and the transit corridor to Azerbaijan.
3. The existing Bakurtsikhe -Tsnori Road is two-laned with a width of 6.5-9.0 metres, passing through densely populated villages, which poses considerable road safety risks.
4. The new road will be two-lane one-carriageway with a design speed of 100 km/h and will have a length of about 16.2 km, including two interchanges and 19 bridges.
5. A team from IRD Engineering will carry out the duties of “The Engineer” according to “FIDIC Conditions of Contract for Construction for Building and Engineering Works designed by the Employer”, Pink Book, including the management of any variations and claims occurring during the implementation.
6. The overall objective of the assignment is to ensure a high-quality construction and that all works are carried out in full compliance with the engineering design, technical specification described in the civil works contracts, so that the contractor completes the construction within the agreed total price and time schedule.
7. The Engineer prepared this SAESMR in accordance with the requirements under the Supervision of the Construction of Bakurtsikhe-Tsnori Road Section, requirements under the Section 7. Terms of Reference, TASK 3: Environmental Support and Monitoring, paragraph (xviii) draft semi-annual environmental safeguard monitoring reports.
8. This Report represents the Semi-annual Environmental Monitoring Report (SAEMR) for the reporting period from 01st of July 2023 until 31th of December 2023, for the Construction of Bakurtsikhe-Tsnori Road Section; presenting the required information in a format stipulated required by the Asian Development Bank (ADB).

1.2 Headline Information

9. The contract for Project Management Consultancy Services (PMCS) between Roads Department (RD) and Joint Venture IRD Engineering S.R.L and GMC Consulting LLC Authorized Representative was signed on 19 October 2021 and the contract for the construction of Bakurtsikhe-Tsnori Road Section between RD and China Road and Bridge Corporation was signed on 29 November 2021. Awarded contracts included EMPs cleared by ADB and conditions of national EIA clearance. The official completion date of the project is March 2024, but due to delays, apparently the project will be prolonged.
10. During the reporting period, the Contractor’s Site Specific Environmental Management Plan (SSEMP) has been approved by the Engineer

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

11. The Tbilisi-Bakurtsikhe-Lagodekhi international road (S-5) connects Tbilisi with Lagodekhi city and the State border with Azerbaijan, as well as with the cities of Kakheti. The Bakurtsikhe-Tsnori section is located along the Tsvigombori ridge and passes through densely populated villages in Gurjaani and Signaghi districts and several ravines. The deteriorating condition of the existing road and high levels of congestion, including from a large number of heavy goods vehicles (HGVs), has reduced road safety and limited the ability to accommodate future projected traffic. This is particularly problematic on the Bakurtsikhe-Vakiri section of the road where the existing alignment runs through the villages of Bakurtsikhe, Kardenakhi, Anaga, and Vakiri. The road does not currently meet the necessary international standards and there is no feasible option to improve the existing road without requiring demolition of infrastructure (houses, land plots, etc.) and resettlement.
12. The Bakurtsikhe-Tsnori road section is expected to be designed and built in the Alazani lowland along a new alignment bypassing the settled areas along the existing road. The new road section will branch from the Bakurtsikhe - Gurjaani bypass road, which is presently under construction, at approximately km 1.8. The road continues northeast crossing an irrigation canal and then turning right to run parallel to the canal in a south-easterly direction before connection with the S-5 Tbilisi - Lagodekhi. The length of the new road is approximately 16 km, starting at km 0+600 and ending at km 16+809. The road is located within Gurjaani Municipality (Bakurtsikhe) and Signaghi Municipality (Tsnori).
13. To provide adequate access to the villages being bypassed, a diamond interchange at km 11+386 is planned. The secondary road where the new interchange will connect will be rehabilitated/paved. The length of the secondary road is approximately 1,100 m and the paved carriageway width will be 6 m with 0.50 m gravel shoulder on both sides. While final designs of the secondary road still need to be developed by the designbuild Contractor, the upgraded road will stay within the existing right-of-way (ROW). The secondary road currently connects the village of Vakiri to a service road running parallel to the agriculture channel and the proposed road. The secondary road is now being utilized by local residents and farmers and the numbers of vehicles is very low. Since the secondary road will be the only connection along the new road between Bakurtsikhe and Tsnori, the number of users is expected to increase however.
14. The major works consisted of relocation works, filling works, reinforced concrete works (bridges, box-culverts, pipe-culverts, channels), interchanges, concrete barrier and pavement works:
 - Bridge No. 1: Abutment 1 (A2) - Abutment wall construction in progress (BOQ 906)
 - Bridge No. 2 - Bridge AMP construction in progress (BOQ 906)
 - Bridge No. 3: Pier 3 (P3) - Pile construction in progress (BOQ 903)
 - Bridge No. 4: Deck slab construction in progress (BOQ 906) I.Girder Fabrication: #84 - #114 (BOQ 907)
 - Box Culverts: Km 1 + 853, Inlet/outlet bottom plate construction (BOQ 505)
 - Headwall construction (BOQ 505)
 - Roof plate construction (BOQ 505)

- Km 6 + 847, Web construction (BOQ 505)
 - Roof plate construction (BOQ 505)
 - Km 7 + 901, Headwall construction (BOQ 505)
 - Km 15 + 123, Foundation construction (BOQ 505)
 - Embankment Construction on Main Road
 - Capping Layer Construction on Main Road
15. Gas Pipes for Gas Pipe Relocation Works have been successfully provisioned fully. After land acquisition, installation works will commence. The gas pipeline relocation was conducted from Km2 to Km4. The relocation was carried out along melioration road. New gas pipelines were buried in the ground so that no negative visual impact was on the site.

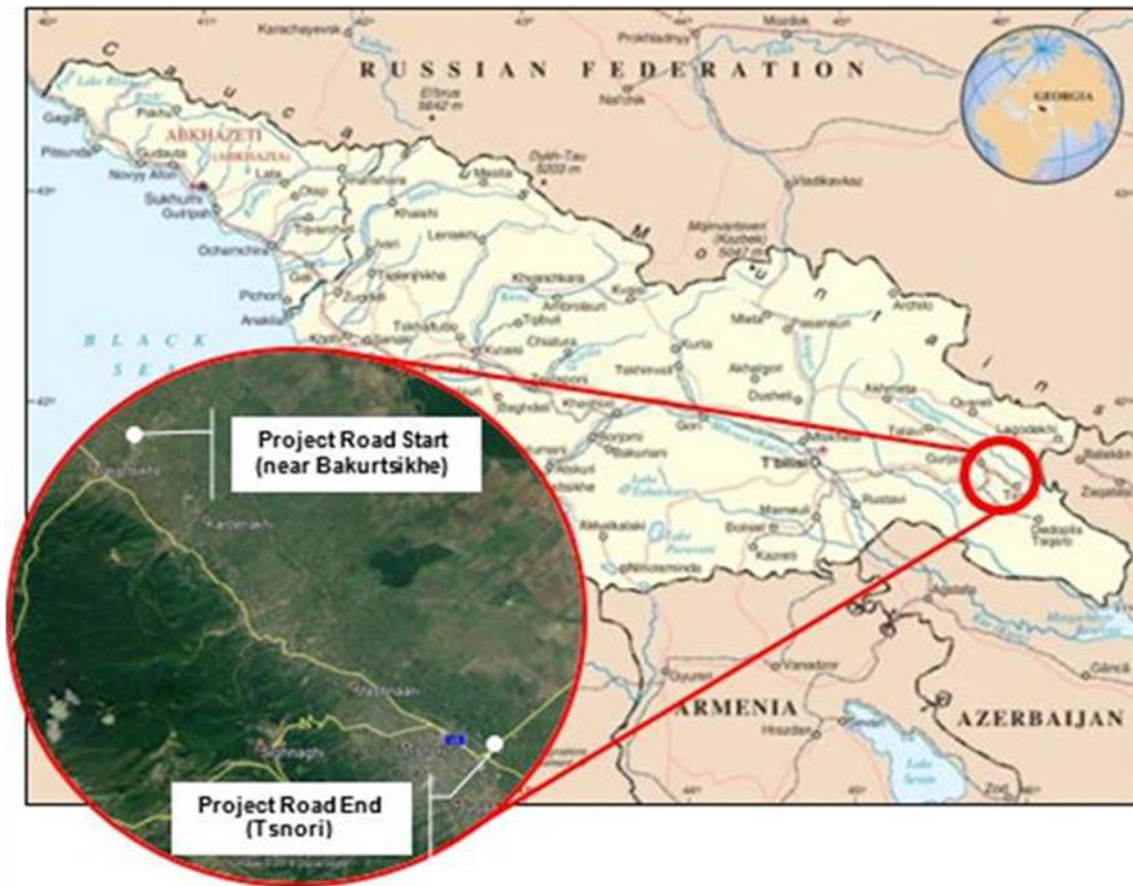


Trench for gas pipelines



Relocation of gas pipelines is ongoing. The old pipelines will be transported by the owner – Georgian Oil and Gas Corporation

16. The Project area is sparsely populated and highly agricultural. The area is characterized by a large number of small-scale farms and land acquisition and resettlement was identified immediately as key issue of concern in defining alignment alternatives. There were particular concerns around land parcels not officially registered and with the anticipated impact on agriculture land being for production of fruit and grapes in the planned ROW. The map of the project road is given in the Figure 1 below.



17. The project is classified as category B for the environment under ADB's Safeguard Policy Statement (2009). Project implementation period is: 2021-2024. The project ends on March 2024.
18. The Roads Department of Georgia under the Ministry of Regional Development and Infrastructure of Georgia submitted the IEE to the Minister of the Environmental Protection and Agriculture of Georgia on 06.09.2019 for approval.
19. Based on submitted documentation Environmental Decision dated 06.11.2019 (order N2-1050) was issued by the Ministry of the Environmental Protection and Agriculture of Georgia.

2.2 Project Contracts and Management

20. The main organisations involved in the project and relating to Environmental Safeguards. Contact details of Asian Development Bank (ADB), Supervision Consultant (SC), Construction Contractor (CC), and Roads Department (RD) representatives are given in Table 1 below.

Table 1: Main Environmental Staff (Key Personnel) of the ADB, SC, CC, and RD

Organisation	Position	Name
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ADB	Head Office, Environmental Specialist, Portfolio, Results, Safeguards and Gender Unit (PSG), CWRD	Name: Ninette Pajarillaga E-mail: npajarillaga@adb.org
	ADB National Environmental Safeguards Consultant	Name: Giorgi Kobaladze Cell: +995599689834 e-mail: gkobaladze.consultant@adb.org
	Associate Safeguards Officer Georgia Resident Mission	Name: Nino Nadashvili Cell: +995 595 070442 E-mail: nnadashvili@adb.org
RD	Environmental Specialist	Name: Tamar Nasuashvili Cell: +995 595 598281 E-mail: Tamara2903@gmail.com tamar.nasuashvili@yahoo.com
	Head of Environmental Unit	Name: Gia Sopadze Cell: +10599939209 E-mail: soppgia@gmail.com
CSC	Key Environmental Expert	Name: Nino Davitashvili Cell: +995577991114 E-mail: davitashvili.nino@gmail.com
	HSE specialist	Name: Avto Papuashvili Cell +995595009633 Email avtopap@yahoo.co.uk
CC	Project Manager	Name: Wang Fuhua Address: 19, Nikoloz Dgebuadze Str., 0102 Tbilisi, Georgia
	Environmental Protection Engineer	Zviad Sherazadishvili Cell: +995 577 41 85 63 E-mail: d11211208@hotmail.com

21. The Employer is the Roads Department of Georgia under the Ministry of Regional Development and Infrastructure of Georgia, the Construction Supervision Consultant is the Joint Venture IRD Engineering s.r.l. (ITA) & GMC Consulting (AZE), the Contractor is the China Road and Bridge Corporation (CRBC).

22. The Works Contract is managed in accordance with the Conditions of Contract for Construction under the Multilateral Development Bank Harmonised Edition June 2010 (Pink Book).

23. The description of how the contracts are being managed and names of key personnel, are provided in the following tabulated lists.

Table 2: Construction Supervision Consultant (CSC)

Description of Contract Data & Milestones	Remarks
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Semestral Environmental Monitoring Report (July-December 2023) Construction of Bakurtsikhe-Tsnori Road Section

Project Name	Supervision of the Construction of Bakurtsikhe-Tsnori Road Section, Batumi Bypass Project.
Employer Name & address	Roads Department of Georgia under the Ministry of Regional Development and Infrastructure of Georgia Al.Kazbegi Avenue 12, 0160 Tbilisi
Employer's Representative Name	Mrs. Salome Tsurtsunia, Deputy Chairperson of the Roads Department
Consultant	Joint Venture IRD Engineering s.r.l. (ITA) & GMC Consulting (AZE)
Consultant's Representative Name	Paul Clarke, Team Leader
Financing Source	ADB, AIIB
Date of Commencement of Work	1 March 2022
Construction Supervision Contract Period <ul style="list-style-type: none"> • for the works • for defect period <u>Total</u> 	<ul style="list-style-type: none"> • 24 months • 24 months • 48 months
Construction Contract Period <ul style="list-style-type: none"> • for the works • Defects Notification period 	<ul style="list-style-type: none"> • 24 calendar months • 730 days
Original Contract Price	USD: 98,860.40 EURO: 695,374.00 GEL: 2,764,386.00
Description of Contract Data & Milestones	Remarks
Total Advance Payment	N/A
Contract Time Elapsed since the Commencement date up to end of June 2022	121 days

Table 3: Construction Contractor (CC)

Description of Contract Data & Milestones	Remarks
Project Name	Construction of Bakurtsikhe-Tsnori Road Section, Batumi Bypass Project.
Employer Name & address	Roads Department of Georgia under the Ministry of Regional Development and Infrastructure of Georgia Al.Kazbegi Avenue 12, 0160 Tbilisi
Contractor's Name	China Road and Bridge Corporation (CRBC)
Financing Source	ADB, AIIB
Date of Contract Agreement	29 November 2021

Date of Commencement of Work	16 March 2022
Time for Completion	24 months
Original Contract Price	87,857,420.53 GEL
Defects Notification Period	730 days
Performance Security	10 % of the Contract Price
Delay Damages payable for each day of delay	0.1 % of the Accepted Contract Amount
Maximum Amount of Delay Damages	10 % of the Accepted Contract Amount
Total Advance Payment	15 % of the Accepted Contract Amount
Percentage of Retention Money	5 %
Limit of Retention Money	5 % of the Accepted Contract Amount
Contract Time Elapsed since the Commencement date up to end of June 2022	106 days

2.3 Project Activities During Current Reporting Period

24. Technical Details of the Construction of Bakurtsikhe-Tsnori Road Section, Batumi Bypass Project, are as follows:

Cross section

- Number of lanes : 2
- Lane width : 3.5m;
- Carriageway width : 2 x 3.5m = 7 m
- Width of shoulder : 2.5m paved and 0.5 m unpaved (total 3.0 m)

Pavement

- Wearing course- Asphalt : 40 mm
- Base course-Asphalt : 120 mm
- Crushed Aggregate Base Course : 200 mm
- Sub base capping layer : 400 mm

Structures

- Bridges : 6 nos
- Box-Culverts : 7 nos
- Underpasses : 15 nos
- Reinforced concrete pipe culverts : 24 nos

25. With the Engineer's letter ref. no. GEO013-22-002 dated 15 March 2022, the Engineer issued to the Contractor the Notice of Commencement Date for Construction Works. With the Engineer's letter ref. no. GEO013-22-005 dated 18 April 2022, the Engineer approved the Contractor's Method Statement for Setting Out and site Clearance Rev1.. Please refer to the following Figure 1.

26. Before tree cutting the Contractor has hired the forester who has conducted inventarization of woody plants. Afterwards the Signagi municipality and the Government of Georgia have

issued permit for cutting of trees. During the reporting period all trees were cut. In total 263 trees should be planted.

27. Topsoil was removed before construction work was commenced. Topsoil is stored in three plots. Please see detailed coordinates of topsoil storage area below.
28. During the reporting period from 01st of July 2023 until 31th of December 2023, the Contractor's Site Specific Environmental Management Plan (SSEMP) has been approved.
29. The Contractor have been instructed by the Engineer to proceed all in accordance with the requirements under the ORDER N2-1050 dated 06/11/2019 issued by the Minister of Environmental Protection and Agriculture of Georgia, which include requirements for the Employer transferred to the Contractor with the Works Contract, which as a minimum are as follows:
 - a. To issue the environmental decision on the construction and operation of a 16 km section of the Bakurtsikhe-Tsnori road submitted by the Roads Department of Georgia;
 - b. The environmental decision provided for in paragraph 1 of the Order shall be issued for an indefinite period;
 - c. The Roads Department of Georgia shall ensure the implementation of activities in accordance with the submitted environmental impact assessment report and attached documents, presented scheme, expected environmental impact mitigation measures, environmental monitoring and emergency response plans, conclusions and recommendations;
 - d. Before starting the construction of the project road, the Roads Department of Georgia shall provide the Ministry with accurate information on the sources to be used for water supply during the construction process and the amount of water stipulated for this purpose;
 - e. The Roads Department of Georgia shall ensure continuous irrigation of roads during the construction of the project road;
 - f. During the construction and operation of the project road the Roads Department of Georgia shall ensure the monitoring of noise, water quality, air quality and vibration levels in the vicinity of the nearest settlement and in case of exceeding the levels established by law, take mitigation measures (protective screen, planting), etc.;
 - g. After the completion of the construction of the project road, the Roads Department of Georgia shall ensure the restoration/recultivation of the areas of construction camps/site to their original condition;
 - h. Before starting the construction of the project road, the Roads Department of Georgia shall, if necessary, submit to the Ministry for approval the following information in order to determine additional mitigation and/or compensatory measures:
 - Detailed information on the species and number of plants that are planned to be removed from the environment as a result of the project. In case of need to remove from the environment the species protected by the Red List of Georgia, to take actions in accordance with the requirements of the legislation of

Georgia. In addition, species with a diameter of less than 8 cm should be transplanted in an appropriate environment.

- Additional information on impacts on animals and habitats as a result of logging.
 - Detailed biodiversity monitoring plan;
- i. The Roads Department of Georgia shall not carry out the construction of the project road without the relevant conclusion of the National Agency for Cultural Heritage Preservation of Georgia.
 - j. Before starting the construction of the project road, the Roads Department of Georgia shall agree with the Ministry the Waste Management Plan drawn up in accordance with the Order N211 of the Minister of Environment and Natural Resources Protection of Georgia of August 4, 2015 and carry out activities in accordance with the agreed plan;
 - k. In case of crossing an irrigation canal, before the construction of the project road the Roads Department of Georgia shall ensure the agreement with the Sakartvelos Melioratsia Ltd. and submit the document confirming the agreement to the Ministry.
 - l. The Roads Department of Georgia shall immediately notify the Ministry of Environment Protection and Agriculture of Georgia of the commencement, completion and commissioning of the project road;
 - m. In case of transfer of an environmental decision to another person, the Roads Department of Georgia shall transfer the environmental decision in accordance with the rules established by the Environmental Assessment Code;
30. The 85,5% of the contract time has elapsed and the overall achieved progress is 51,7 %.

2.4 Description of Any Changes to Project Design for Construction of Construction of Bakurtsikhe-Tsnori Road Section

31. There is no change to Project Design for Construction of Construction of Bakurtsikhe-Tsnori Road Section.
32. There are no significant changes which have occurred for Construction of Construction of Bakurtsikhe-Tsnori Road Section.

2.5 Description of Any Changes to Agreed Construction methods for Construction of Construction of Bakurtsikhe-Tsnori Road Section

33. There are no changes to any construction processes for Construction of Construction of Bakurtsikhe-Tsnori Road Section.

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

During the reporting period from 01st of July 2023 until 31th of December 2023, the Contractor's Site Specific Environmental Management Plan (SSEMP) has been approved by the Engineer.

As it is stated in SSEMP concerning purchase of material supplying of material from already existing licensed quarries is preferable. In case of new quarry, a copy of the license and agreement with the quarry operator will be provided. Because of replacing of gas pipeline the melioration road was closed from Km2 to Km4. The cars in this place were moving along the RoW. The signs were installed. The new traffic management plant for this small place was not necessary.

The Engineer's Key Environmental Specialist is in close communication with the Contractor's Environmental Specialist, in order to facilitate the good environmental monitoring and practice of the project.

- The updated Traffic management plan is not necessary, because the road is closed for public use. The locals are using melioration road to approach their agriculture lands. There are 14 passes where locals can drive and reach their agriculture lands.
 - Borrow pit management plan has been approved by the Engineer. The Contractor performs regular dust monitoring at the borrow pit.
 - Soil/Topsoil disposal and erosion management plan has been approved by the Engineer.
 - Asphalt, crusher and batching plant management plan has been approved by the Engineer.
34. The Contractor does not plan to use surface or groundwater for construction activities. Instead the contractor will purchase and use daily 80 m³ water from Georgian Amelioration, Kvemo Alazani irrigation channel. The Contractor has a contract between Georgian amelioration and the Contractor. The water is used for watering activities to reduce the dust on the project area.
35. The Contractor has established Anaga workshop for construction activities. Different activities are conducted at Anaga construction camp site. One of these activities are abrasive disc cutting, arc welding and bending rebars . This activity needs preparation of technical report on inventory of stationary sources of pollution and harmful substances emitted into the atmosphere and submission of this document to the Ministry of Environmental Protection and Agriculture for approval. The contractor has submitted the document to the Ministry of environmental Protection and Agriculture for approval. The electrodes from welding activity are hazardous waste. Therefore the Contractor has metal box for collecting of electrodes. The box has label.
36. The Contractor has established contract with the Black Sea Group who provides the Contractor with reinforced concrete beams. The Subcontractor facility was visited by the Engineer. The subcontractor has waste management plan and hazardous waste storage area. The Engineer has requested to establish concrete washout pits. The concrete washout pits are located on the territory of the Black Sea Group. The place is not an agricultural land. It is covered with gravel and there is no topsoil. Spontaneous vegetation is developed on the gravel. The washout pits are covered with geotextile to avoid leaching of concrete particulates in the groundwater.



Washout pit covered with geotextile

37. During the construction activities old water pipes of the Melioration were replaced with new ones. One water pipe was from asbestos material. The asbestos pipe was removed by waste company “Sanitar” and was disposed. The removed pipes were taken away by melioration since they were property of this company..



Asbestos pipe at the construction site

38. The Contractor has hazardous waste storage area. It is surrounded and has concrete basement and shelter. The hazardous waste was disposed by waste company “Sanitar”. The waste logs are in attachment.
39. The Contractor does not have worker’s camp.
40. The Contractor has fuel station at Anaga workshop. After the Engineer’s recommendation the Contractor has constructed bund around the fuel station to avoid spillage of fuel.
41. The generators on site are strictly monitored. Generators are placed on drip trays and are filled with sand to avoid leaking of fuel on the ground.
42. Since March 2023 the Contractor started monitoring of surface water quality, air quality, noise and vibration levels. The Contractor has contract with the accredited laboratory which performs monthly measurements of above-mentioned items.
43. Also, the Contractor was requested by the Engineer, officially to submit to the Engineer copies of all necessary Permit documents obtained from the corresponding
44. Government Authorities. The Engineer’s request refers to the Permissions/Licenses/Contracts/Accreditations are as follows:
- Permission from the local Municipality Authorities/private land owners for topsoil disposal areas;The Contractor has made 3 lease agreements for topsoil and spoil disposals:
 - 1) 670406 m2 - Sighnaghi Municipality, village Sakobo (cadastral code: 56.03.48.004);

2) 6000 m² - Sighnaghi Municipality, village Jugaani (cadastral code: 56.05.46.373);

3) 50000 m² – Sighnaghi Municipality, village Bodbiskhevi (cadastral code:

56.05.45.038). (See figures for topsoil storage below)

- Borrow pit licences – the Contractor has certificates and locations of borrow pits in Anaga (872400 m³) and Chermiskhevi (68 000m³). Chermiskhevi borrow pit is owned by the Contractor. The borrow pit is located in the riverbed of seasonal river, there was no topsoil. Therefore after completion of the works the Contractor will make leveling and no biological reinstatement.
- Permission for Environmental Emissions – the Contractor has submitted emission document to the Ministry of Environmental Protection and Agriculture for approval.
- Information about the Contractor's Accredited Laboratory, which the Contractor will use for sampling, testing, and providing Testing Reports on quality of mediums (air quality, level of noise, etc.) for baseline conditions and further for monitoring – the Contractor has concluded contract with accredited laboratory for sampling and testing of air quality, noise and vibration levels.

45. The Engineer established monitoring indicators as mainly descriptive with gradation of:

- Not fulfilled which refers to fulfilled Works Contract requirement from 0% to 25%;
- Mainly not fulfilled which refers to fulfilled Works Contract requirement from 25% to 50%;
- Mainly fulfilled which refers to fulfilled Works Contract requirement from 50% to 75%; and
- Fulfilled which refers to fulfilled Works Contract requirement from 75% to 100%.

46. It is important to underline that the monitoring indicator for the reporting period, is the average value for fulfilment of each corresponding Works Contract requirement. During the reporting period the Contractor mainly fulfilled the Contract requirements i.e. the Contractor fulfilled from 50% to 75% of the Works Contract requirements.



Topsoil storage area. Plot #1



Topsoil storage area. Plot #2



Topsoil storage area. Plot #3

3.2 Site Audits

47. Following details present the formal audits undertaken by environmental safeguard process staff during the current reporting period.
48. Site inspection from km 0+000 to km 16+585, has been performed by the Engineer's key Environmental Specialist during July-December 2023, all in accordance with the with the requirements under the Supervision of the Construction of Bakurtsikhe-Tsnori Road Section, requirements under the Section 7. Terms of Reference, TASK 3: Environmental Support and Monitoring, paragraph (xii) undertake monthly inspection, monitoring and reporting of construction sites and all construction-related facilities (Anaga workshop, batching plants, concrete batching plants, borrow pits, suitable materials, equipment maintenance areas, fuel and materials storage sites, project-specific quarries and crushers, etc.) to assess the contractor's compliance with the SEMP and the Project EMP.
49. The method adopted for the site Monthly Environmental and Social Monitoring Check List (MESMCL) inspection was established as mutual with the Contractor' and the Engineer's Environmental Specialists, including visual inspection, interviews with workers, review of permits obtained, discrepancies identified at site in terms of mitigation measures required under the Mitigation Plan and Monitoring Plan, and agreed deadline for corrections of mutually identified discrepancies.
50. Usage of Daily Environmental Monitoring Check List would be by the CSC's Engineers when necessary.

51. The most common environmental issue during site visit is generator and its placement. The Contractor several times was warned to locate the generator on the drip tray and fill it with sand to avoid leaking of fuel on the ground. Another main issue is poor housekeeping.
52. The Engineer has conducted environmental training for the Contractor on asbestos handling and topsoil on November 8 2023



Environmental training for the Contractor.

3.3 Issues Tracking (Based on Non-Conformance Notices)

53. Two Non-Conformance Notices have been issued to the Contractor by the CSC during the reporting period (July-December 2023). The NCR-s were on placement of generator on drip tray and filling of it with sand and installing of collector box for welding electrodes The Contractor has performed corrective actions plan and improved non-conformities.

3.4 Trends

54. To identify trends in issues, please find the following Table 6, with the information from previous period reports and the current period information.

Table 6: Trend in issues from the previous reporting period SAEMR (January-June 2023)

Number	Total No of Issues	% issues Closed	% issues closed late
1	24	80	20

Table 7: Trend in issues from the current reporting period SAEMR (July-December 2023)

Number	Total No of Issues	% issues Closed	% Issues closed late
1	26	90	10

NOTE: Description of each issue separately is presented in the next Table 8 of the bullet point 15.

55. The commentary on the trends, are presented in the following Table 8.

Table 8: Commentary on the trends for the current reporting period SAEMR (July-December 2023)

Issue number	Description of Issues	Note
1	SSEMP has been approved by the Engineer.	
2	Top-Soil management plan has been approved by the engineer.	
3	Soil/Topsoil disposal management plan has been approved by the engineer	
4	Soil erosion management plan has been approved by the engineer	
5	Traffic management plan has been approved by the engineer	
6	Occupational and community health and safety management plan has been approved by the engineer.	
7	Air quality management plan has been approved by the engineer	
8	Spill management plan has been approved by the engineer.	
9	Clearance, revegetation and restoration management plan has been approved by the engineer	
10	Noise management plan has been approved by the engineer	

11	Biodiversity management plan has been approved by the engineer	
12	Bridge construction method statement has been approved by the engineer	
13	Labour management plan has been approved by the engineer	
14	Chance find procedure has been approved by the engineer	
15	Environmental management plan has been approved by the engineer	
16	Borrow pit management plan has been approved by the Engineer. The Contractor to performs regular dust monitoring at the borrow pits	
17	Waste management plan is approved by engineer. This document is also approved by the Ministry of Environmental Protection and Agriculture	
18	Construction Vibration Management Plan is approved by the Engineer.	
19	The Contractor has contract with the Accredited Laboratory for monitoring the quality of mediums.	
20	Baseline monitoring for quality of mediums is performed by the Contractor.	
21	The Contractor has hazardous waste storage area	
22	Contractor's Borrow pit licenses- The Contractor has certificates and locations of borrow pit in Anaga and Chermiskhevi.	
Issue number	Description of Issues	Note
23	Permission for Environmental Emissions, is submitted by the Contractor.	
24	Asphalt, crusher and batching plant management plan has been approved by the Engineer.	
25	Soil/Topsoil disposal and erosion management plan has been approved by the Engineer.	
26	Tree planting plan should be submitted by the Contractor	

56. Two Non-Conformance Notices have been issued to the Contractor by the CSC during the reporting period. The Contractor has taken corrective action plan and improved non-conformities.

57. A GRM for the project was established as per the LARP and is currently operational to allow the Aps to appeal any disagreeable decision, practice or activity arising from land or other assets compensation, or any other aspect of project implementation. APs' have been fully informed of their rights and of the procedures for addressing complaints, whether verbally or in writing, during consultation, surveys, etc. and they were also informed about the time of

payment of the compensation: verbally during consultations, via bank messages, via project managers and etc.

58. A Grievance Redress Committee (GRC) under the GRM was also established at the community level (village/community authority) to resolve complaints and grievances through community participation. The Local GRC was established on 14 June 2016 to receive both written and verbal grievances. The GRC has been formed with representatives from RDMRDI, local authorities (Gangeoba), APs, women Aps, and appropriate local NGOs to allow voices of the affected communities to be heard and ensure a participatory decision-making process. GRC decisions will be on a majority basis and will be publicized among the local communities. If the complainants are not satisfied with the GRC decisions, they can always file their cases in court.

4 RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Monitoring Conducted during Current Period

59. Environmental baseline monitoring for the quality of mediums (quality of air, and level of noise and vibration) have been provided by the Contractor. Monitoring of water quality has been quitted because there is no work which could affect water quality. Mostly embankment works are in progress. the project area is located in a distant from water source in this case amelioration water channel and has no impact on the quality of the water. Dust, noise and vibration monitoring points have been changed and are located near the sensitive receptors e.g. point 3 was monitored near the Anaga Borrow pit. Similarly point 5 was changed for dust monitoring. The point represents a road near agriculture land. Measurements of noise, vibration and dust are conducted together with the Engineer (see attached Figure)



Measurement of noise and vibration

4.2 Trends

60. Since March 2023 the Contractor has stated monthly monitoring for the quality mediums – quality of air, level of noise and level of vibration. The monitoring will last till the end of the project.

4.3 Summary of Monitoring Outcomes

61. Environmental monitoring for the quality of mediums (quality of air, and level of noise, level of vibration) have been provided by the Contractor during the reporting period.

62. The Contractor conducts monitoring once in a month.

63. Within the framework of the project, various types of monitoring works were carried out at 6 points

#	Point	X	Y	Conducted work/measurement
1	Point 1	572588.00	4617663.00	Dust
2	Point 2	577543.49	4612719.80	Noise, vibration
3	Point 3	577279.00	4611439.00	Dust
4	Point 4	580132.89	4609274.57	Noise, vibration
5	Point 5	580605.00	4609020.00	Dust
6	Point 6	581402.00	4608707.00	Noise, vibration

64. Vibration measurement results at points 2 and 4 are low and meet both Georgian legislative requirements and German and British standards. According to the results of the vibration measurement, an excess (1.3 dB) is recorded at point 6, however, there are no buildings in the vicinity of the point, so there is no risk of impact.

65. According to Georgian legislation, the permissible limit of dust concentration is 150 micrograms per cubic meter. According to the measurement results, at Point 1 and Point 3 the amount of dust in the air is very low and does not exceed the maximum levels acceptable by the Georgian legislation. According to the measurement results, the average value of the total number of dust particles at point #5 is higher than the permissible limit. The cause of the dust generation was heavy equipment moving nearby. At Point 5, the concentration of dust in the air exceeds the established norm. In order to avoid strong dust, it is recommended that the project vehicles drive at a low speed and in addition wash the dirt road frequently.

66. According to the Georgian legislation, daytime permissible level of noise in the vicinity of residential and dwelling facilities is defined as 55 dB. At points 2, 4, 6 were measured maximal noise levels as 71, 78 and 82 dB respectively. There is no sensitive receptor in the vicinity of the points, therefore, the obtained results will not be compared with the legal standards and will be considered as background noise levels.

4.4 Material Resources Utilisation

4.4.1 Current Period

67. The Contractor during construction activities uses following materials.

68. Electricity 90 118 KWT

69. Diesel 1 877 566 L

70. Embankment material 1 221 037 M3

71. Concrete 9129.5 m3

72. Rebar 624 T

73. Reinforced concrete beams 112 pieces

74. Water from free floating source 6 400 m³ rainy days were 23 and during these days water for watering was not used

4.4.2 Cumulative Resource Utilisation

75. The Contractor during construction activities has been using following cumulative material

76. Electricity 252 534 KWT

77. Diesel 4 683 916 L

78. Embankment material 2 168 518 m³

79. Concrete 25 067.5 m³

80. Rebar 3 504.92 T

81. Water 1112 320 m³

82. Reinforced concrete beams 112 pieces

4.5 Waste Management

83. The Contractor generates waste and segregates it in the types of waste – household waste, construction waste and hazardous waste.

4.5.1 Current Period

84. During the current period the Contractor has generated following waste amount:

85. Household waste 39 t

86. Construction waste - The contractor reuses construction waste

87. Hazardous waste 1t .450 kg was disposed by “Sanitar”.

4.5.2 Cumulative Waste Generation

88. The Contractor has generated following cumulative waste amount:

89. Household waste 72t

90. Construction waste --the Contractor reuses construction waste (e.g. wood)

91. Hazardous waste .2.5 t

92. Health and Safety

4.5.3 Community Health and Safety

93. No incidents occurred during the reporting period which resulted in or could have resulted in Community Health and Safety issues. No traffic accidents occurred during the reporting period.

4.5.4 Worker Safety and Health

94. There is no occurrence of accidents , including Lost Time Incidents, Accidents and near misses.

95. On 8 November 2023 at the Engineer's premises in Tsnori, the Engineer organized and held the Orientation Session with the Representatives of the Contractor, the Engineer, attention has been also given to the Health and Safety Management.

4.6 Training

96. The Contractor provides HSE training for workers regularly provided during the reporting period.

1	Health and Safety	Fire safety	27.07.2023	Contractor's office	<i>Representatives of the contractor</i>
2	Health and Safety	Emergency response	08.09.2023	Contractor's office	<i>Representatives of the contractor</i>

97. On 8 November 2023, at the Engineer's premises in Tsnori, the Engineer organized and held the Orientation Session with the Representatives of the Contractor and the Engineer, presenting and discussing the:

- Asbestos handling,
- Topsoil issues

98. On December 8 2023, at Engineer's premises in Tsnori, ADB organized and held the training on topic SAEMR, Environmental monitoring and environmental parameters. The Road Department, the Engineer and the Contractor's representatives attended the training.



99. Following is the list of training planned for the next reporting period SAEMR (January-June 2024).

Table 9: Description of Training planned for the next reporting period SAEMR (**January-June 2024**)

Issue number	Description of Training planned for the next reporting period	Note
Health and Safety		
1	Contractor's introduction training for the visitors	
2	P.P.E. Personal Protective Equipment	
3	Fire safety training,	
4	Emergency drills,	
5	First-aid training	

Semestral Environmental Monitoring Report (July-December 2023) Construction of Bakurtsikhe-Tsnori Road Section

6	Lifting training	
7	Road to better driving training	
8	<p>Contractor's training of the employers (workers) on potential hazards. This shall include (but not limited to) the following hazards:</p> <ul style="list-style-type: none"> • Falling from height; • Falling into water; • Safe driving, road traffic culture; • Slipping on greasy walkways; • Falling objects; • Contact with dangerous substances; • Electric shock; • Variable weather conditions; • Lifting excessive weights; • Power tools and equipment • Manual handling • Ladder safety 	
Environmental protection		

The Contractor held public consultations with the stakeholders in December 20. The social issues of the project were discussed

5 FUNCTIONING OF THE SEMP

5.1 SEMP Review

100. The Engineer has proactive approach and facilitates the process of the Contractor's SEMP completion.
101. N/A
102. SEMP has been approved.
103. Comment to the Mitigation Plan and to the Monitoring Plan, if any, would be presented during the next reporting period.
104. N/A

6 GOOD PRACTISE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

105. Planting trees which have been cut or are to be cut would improve the environment and landscaping. Planting of trees decrease the risk of climate changes. Such good practise showed as beneficial to the Project as well as to the local communities.
106. Good practice in tree planting considers maintenance of biodiversity of the population. Part of the biodiversity is a genetic diversity which means maintenance of population genetic diversity. Each tree population has its unique genetic pool. Tree saplings which are purchased in nurseries for planting at construction sites have another genetic diversity. For maintaining of population's genetic diversity it is necessary to collect the seeds of the tree species that will be cut during the early stage of the construction project. Afterwards the seeds should be germinated in the nursery and at the end of the project saplings grown from the seeds should be planted. Such good practice maintains genetic diversity of the tree population.

6.2 Opportunities for Improvement

107. The Contractor should improve housekeeping on sites and place waste bin at every construction sites.

7 SUMMARY AND RECCOMENDATIONS


7.1 Summary

108. Most documentations are approved during July-December 2023 reporting period. SEMP has been approved. Trainings in environmental issues and health and safety have been conducted.

7.2 Recommendations

109. Recommendation is given to the Contractor to conduct dust monitoring at the borrow pits.

8 Annex 1 – Waste Transportation Forms



WASTE TRANSFER NOTE

ნარჩენების სატრანსპორტო შედეგად

Ref No. N° **103004**

PLEASE COMPLETE IN BLOCK CAPITALS IN INK გთხოვთ შეავსოთ ბეჭდური ასოებით

A. CONSIGNMENT DETAILS / გადასემის დეტალები

1. Waste described herein is dispatched from/ აქ აღწერილი ნარჩენების გამოგზავნის ადგილი

Facility / თბიქტი Area name/ადგ. დასახელ. **სკნაის ჩაირი სოფ. ანაკ** Date/თარიღი/___/___/___

2. Destination of waste (name, location)/დანიშნულება (დასახელება,მდებარეობა)

3 Dispatched by / გამოგზავნი Position/თანამდებ. Tel / ტელ

B. DESCRIPTION OF WASTE ნარჩენების აღწერა No. of additional sheets/დამატ. ფურც.რაოდ.

Waste type ნარჩენის ტიპი	2.Haz/ Non haz / საზ.-უვნ.	3. Physical form / ფიზ. ფორმა	4.Quantity /რაოდენობა	Unit/ერთეული	5. Process giving rise to waste/ ნარჩენის წარმოშ. პროცესი
Engine oil	300			ლიტრი	
Tire	30			საღი	
Air filter	40			საღი	

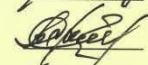
Dispatcher's Signature / გამოგზავნის ხელმოწერა:

C. TRANSPORTERS DETAILS / ინფორმაცია ტრანსპორტის მფლობელის შესახებ

I certify today that I collected the consignment and that the details herein are correct/ დღეს ვადასტურებ, რომ მივიღე ტვირთი, რომელიც სწორადაა აღწერილი ამ დოკუმენტში

1. The quantity collected is / მიღებული რაოდენობა kg / lts / te / m3 etc / კგ/ლ/ტ/მ3 და ა.შ.

2. Name / სახელი გვარი **Taru Shvelob** Date/თარიღი **03 10 2023** at _____ am/pm საათი

3. Signature / ხელმოწერა  Company name / კომპანიის სახელწოდება **China road and bridge corporation**

4 Vehicle registration / ტრანსპ.რეგ. **AT 555 ZT**

D. CONSIGNEES CERTIFICATE / ტვირთის მიმღების სერტიფიკატი

1. I received this waste on / მივიღე ეს ნარჩენები ___/___/___ at _____ am/pm საათი

2. Quantity received/ მიღებ. რაოდენობა kg / lts / te / m3 etc / კგ/ლ/ტ/მ3 და ა.შ.

3. Vehicle registration / ტრანსპ.რეგ

4. Name / სახელი გვარი _____

5. Signature / ხელმოწერა _____

6. Waste Facility name/ნარჩენების ნაგებობის სახელწოდება _____

7. On behalf of (Co) / ვისი (კომპანიის) სახელით _____

Distribution / ტვირთის მოძრ:

White / თეთრი: Generator / გენერატორი	Yellow / ყვითელი: Receiver / მიმღები
Blue / ცისფერი: Transporter / გადაზიდვი	Green / მწვანე: Back to generator / დაუბრუნდეს გენერატორს

დანართი II: სახიფათო ნარჩენების ტრანსპორტირების ფორმა

№ 4292069984

1. გამგზავნი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
ჩინეთის გზებისა და ხიდების კორპორაციის საქართველოს ფილიალი	PE2075878 - ვანგ ფუჰუა	საქართველო/კახეთი/სიღნაღი/წნორი/წნორი / 995595016244

2. მიმღები

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
შპს "სანიტარი" - ინსინერატორი	01025005541 - ლევან კვიციანი	საქართველო/ქვემო ქართლი/გარდაბანი/ახალი სამგორი/ახალი სამგორი / 995599583130

3. დატვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
ჩინეთის გზებისა და ხიდების კორპორაციის საქართველოს ფილიალი	PE2075878 - ვანგ ფუჰუა	საქართველო/კახეთი/სიღნაღი/წნორი/წნორი / 995595016244

4. გადმოტვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
შპს "სანიტარი" - ინსინერატორი	01025005541 - ლევან კვიციანი	საქართველო/ქვემო ქართლი/გარდაბანი/ახალი სამგორი/ახალი სამგორი / 995599583130

5. გადაზიდველი №1

კომპანია	საკონტაქტო პირი	მმლოლი	მისამართი/ ტელეფონი	ავტოსატრანსპორტო საშუალების რეგისტრაციის ნომერი:	ტრალიერის რეგისტრაციის ნომერი:	სარკინიგზო გადაზიდვა N:
Sanitary	01025005541 - ლევან კვიციანი	12001020649 - გაჯი მუსაევი	/ 995599583130	tt553zt		

6. გადაზიდველი №2

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი	ავტოსატრანსპორტო საშუალების რეგისტრაციის ნომერი:	ტრალიერის რეგისტრაციის ნომერი:	სარკინიგზო გადაზიდვა N:

ტრანსპორტირება

7. №	8. ნარჩენის კოდი	9. ნარჩენის დასახელება	10. ოდენობა (კგ)
	13 02 05*	ძრავისა და კბილანური გადაცემის კოლოფის მიწერალური არაქლორირებული ზეთები და არაქლორირებული ზეთოვანი ლუბრიკანტები	300

დადასტურება:

11. ნარჩენები გადაეცა გადაზიდველს	12. ნარჩენები მიიღო გადაზიდველმა	13. ნარჩენები გადაეცა მიმღებს	14. ნარჩენები მიღებულია მუშაების/ალღების/განთავსების მიზნით
თარიღი/დრო 03.08.2023 00:00:00	თარიღი/დრო	თარიღი/დრო	თარიღი/დრო

დანართი II: სახიფათო ნარჩენების ტრანსპორტირების ფორმა

№ 3496952427

1. გამგზავნი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
ჩინეთის გზებისა და ხიდების კორპორაციის საქართველოს ფილიალი	PE2075878 - ვანგ ფუჰუა	საქართველო/ვახეთი/სიღნაღი/წნორი/წნორი / 9955995016244

2. მიმღები

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
შპს "სანიტარი" - ინსინერატორი	01025005541 - ლევან კვიციანი	საქართველო/ქვემო ქართლი/გარდახანი/ახალი სამგორი/ახალი სამგორი / 995599583130

3. დატვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
ჩინეთის გზებისა და ხიდების კორპორაციის საქართველოს ფილიალი	PE2075878 - ვანგ ფუჰუა	საქართველო/ვახეთი/სიღნაღი/წნორი/წნორი / 9955995016244

4. გადმოტვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
შპს "სანიტარი" - ინსინერატორი	01025005541 - ლევან კვიციანი	საქართველო/ქვემო ქართლი/გარდახანი/ახალი სამგორი/ახალი სამგორი / 995599583130

5. გადამზიდეველი №1

კომპანია	საკონტაქტო პირი	მძღოლი	მისამართი/ ტელეფონი	ავტოსატრანსპორტო საშუალების რეგისტრაციის ნომერი:	ტრალიერის რეგისტრაციის ნომერი:	სარკინიგზო გადაზიდვა N:
Sanitary	01025005541 - ლევან კვიციანი	12001020649 - გაგი მუსაევი	/995599583130	IL553ZL		

6. გადამზიდეველი №2

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი	ავტოსატრანსპორტო საშუალების რეგისტრაციის ნომერი:	ტრალიერის რეგისტრაციის ნომერი:	სარკინიგზო გადაზიდვა N:

ტრანსპორტირება

7. №	8. ნარჩენის კოდი	9. ნარჩენის დასახელება	10. ოდენობა (კგ)
	17.06.05*	ახსესტის შემცველი სამშენებლო მასალები	100

დადასტურება:

11. ნარჩენები გადაეცა გადამზიდეველს	12. ნარჩენები მიიღო გადამზიდეველმა	13. ნარჩენები გადაეცა მიმღებს	14. ნარჩენები მიღებულა. შენახვის/აღდგენის/განთავსების მიზნით
თარიღი/დრო 03.08.2023 00:00:00	თარიღი/დრო	თარიღი/დრო	თარიღი/დრო

დანართი II: სახიფათო ნარჩენების ტრანსპორტირების ფორმა

№ 3368370842

1. გამგზავნი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
ჩინეთის გზებისა და ხიდების კორპორაციის საქართველოს ფილიალი	PE2075878 - ვანგ ფუპუა	საქართველო/კახეთი/სიღნაღი/წნორი/წნორი / 995595016244

2. მიმღები

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
შპს "სანიტარი" - ინსინერატორი	01025005541 - ლევან კვიციანი	საქართველო/ქვემო ქართლი/გარდაბანი/ახალი სამგორი/ახალი სამგორი / 99559583130

3. დატვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
ჩინეთის გზებისა და ხიდების კორპორაციის საქართველოს ფილიალი	PE2075878 - ვანგ ფუპუა	საქართველო/კახეთი/სიღნაღი/წნორი/წნორი / 995595016244

4. გადმოტვირთვის ადგილი

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი
შპს "სანიტარი" - ინსინერატორი	01025005541 - ლევან კვიციანი	საქართველო/ქვემო ქართლი/გარდაბანი/ახალი სამგორი/ახალი სამგორი / 99559583130

5. გადამზიდველი №1

კომპანია	საკონტაქტო პირი	მძღოლი	მისამართი/ ტელეფონი	ავტოსატრანსპორტო საშუალების რეგისტრაციის ნომერი:	ტრალიერის რეგისტრაციის ნომერი:	სარკინიგზო გადაზიდვა N:
Sanitary	01025005541 - ლევან კვიციანი	12001020649 - გაგი მუსაგვი	/ 99559583130	tt553zt		

6. გადამზიდველი №2

კომპანია	საკონტაქტო პირი	მისამართი/ ტელეფონი	ავტოსატრანსპორტო საშუალების რეგისტრაციის ნომერი:	ტრალიერის რეგისტრაციის ნომერი:	სარკინიგზო გადაზიდვა N:

ტრანსპორტირება

7. №	8. ნარჩენის კოდი	9. ნარჩენის დასახელება	10. ოდენობა (კგ)
	15 02 02*	ახსორბენტები, ფილტრის მასალები (ზეთის ფილტრების ჩათვლით, რომელიც არ არის განხილული სხვა კატეგორიაში), საწმენდი ნაჭრები და დამცავი ტანსაცმელი, რომელიც დაზიანებულია სახიფათო ნივთიერებებით	50

დადასტურება:

11. ნარჩენები გადაეცა გადამზიდველს	12. ნარჩენები მიიღო გადამზიდველმა	13. ნარჩენები გადაეცა მიმღებს	14. ნარჩენები მიღებულია მენახვის/აღდგენის/განთავსების მიზნით
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დანართი I: სახიფათო ნარჩენის საინფორმაციო ფურცელი

№ 3368370842

სახიფათო ნარჩენის კოდი 15 02 02*		სახიფათო ნარჩენის დასახელება აბსორბენტები, ფილტრის მასალები (ზეთის ფილტრების ჩათვლით, რომელიც არ არის განხილული სხვა კატეგორიაში), საწმენდი ნაჭრები და დამცავი ტანსაცმისი, რომელიც დაზინმურებულია სახიფათო ნივთიერებით	
სახიფათო თვისებები	კლასიფიკაციის სისტემა	H კოდები	საშიშროების კლასი
	ძირითადი:	H 14	„ეკოტოქსიკური“ – ნარჩენები, რომლებიც უქმნის ან რომლებმაც შესაძლოა შეუქმნას დაუყოვნებელი ან განგრძობადი რისკი გარემოს ერთ ან რამდენიმე სექტორს.
	დამატებითი:	H 15	ნარჩენები, რომლებმაც განთავსების შემდეგ შესაძლოა გამოეყოს სხვა ნივთიერება, მაგ., გამოწვინი, რომელსაც აქვს H1–H14 კოდებში ჩამთავილი რომელიმე მახასიათებელი.
პროცესი/საქმიანობა, რომლის შედეგად წარმოიქმნება სახიფათო ნარჩენები	ავტობანის მშენებლობა		
ფიზიკური თვისებები	<input checked="" type="checkbox"/> მყარი	შენიშვნა	
ქიმიური თვისებები	<input checked="" type="checkbox"/> არაორგანული	შენიშვნა	
გამოსაყენებელი შეფუთვის ან კონტეინერის სახეობა კონტეინერები	საშიშროების ნიშნები, რომლებიც გამოყენებული უნდა იყოს შენახვის/ტრანსპორტირების დროს 		
პირველადი დახმარება პირველადი დახმარების ყუთი	ზომები საგანგებო სიტუაციის დროს 112 , გადაუდებელი დახმარება		

დანართი I: სახიფათო ნარჩენის საინფორმაციო ფურცელი

№ 4292069984

სახიფათო ნარჩენის კოდი 13 02 05*		სახიფათო ნარჩენის დასახელება მრავისა და კბილანური გადაცემის კოლოფის მინერალური არაქლორირებული ზეთები და არაქლორირებული ზეთოვანი ლუბრიკანტები	
სახიფათო თვისებები	კლასიფიკაციის სისტემა	II კლდეები	საშიშროების კლასი
	ძირითადი:	H 5	„მაგნე“ – ნივთიერებები და პრეპარატები, რომელთა შესუნთქვა, ჩაყლაპვა ან ანში შეღწევა ჯანმრთელობისათვის საშიშია
	დამატებითი:	II 6	„ტოქსიკური“ – ნივთიერებები და პრეპარატები (მათ შორის, მეტად ტოქსიკური ნივთიერებები და პრეპარატები), რომლებმაც შესუნთქვის, ჩაყლაპვის ან კანში შეღწევის შემთხვევაში შესაძლოა ჯანმრთელობის სერიოზული, მკვეთრი ან ქრონიკული დაზიანება ან სიკვდილიც კი გამოიწვიოს
პროცესი/საქმიანობა, რომლის შედეგადაც წარმოიქმნება სახიფათო ნარჩენები	ავტობანის მშენებლობა		
ფიზიკური თვისებები	<input checked="" type="checkbox"/> თხევადი	შენიშვნა	
ქიმიური თვისებები	<input checked="" type="checkbox"/> არაორგანული	შენიშვნა	
გამოსაყენებელი შეფუთვის ან კონტეინერის სახეობა აგზები	საშიშროების ნიშნები, რომლებიც გამოყენებული უნდა იყოს შენახვის/ტრანსპორტირების დროს 		
პირველადი დახმარება პირველადი დახმარების ყუთი	ზომები საგანგებო სიტუაციის დროს ზარი 112 .საგანგებო სიტუაციების მართვის გეგმა		

დანართი I: სახიფათო ნარჩენის საინფორმაციო ფურცელი

№ 3496952427

სახიფათო ნარჩენის კოდი 17 06 05*		სახიფათო ნარჩენის დასახელება აზბესტის შემცველი სამშენებლო მასალები	
სახიფათო თვისებები	კლასიფიკაციის სისტემა	H კოდები	სამშრობის კლასი
	ძირითადი:	H 14	„ეკოტოქსიკური“ – ნარჩენები, რომლებიც უქმნის ან რომლებმაც შესაძლოა შეუქმნას დაუყოვნებელი ან განგრძობადი რისკი გარემოს ერთ ან რამდენიმე სექტორს.
	დამატებითი:	H 14	„ეკოტოქსიკური“ – ნარჩენები, რომლებიც უქმნის ან რომლებმაც შესაძლოა შეუქმნას დაუყოვნებელი ან განგრძობადი რისკი გარემოს ერთ ან რამდენიმე სექტორს.
პროცესი/საქმიანობა, რომლის შედეგად წარმოიქმნება სახიფათო ნარჩენები	ავტობანის მშენებლობა		
ფიზიკური თვისებები	<input checked="" type="checkbox"/> მყარი	შენიშვნა	
ქიმიური თვისებები	<input checked="" type="checkbox"/> არაორგანული	შენიშვნა	
გამოსაყენებელი შეფუთვის ან კონტეინერის სახეობა სხვა	სამშრობის ნიშნები, რომლებიც გამოყენებული უნდა იყოს შენახვის/ტრანსპორტირების დროს 		
პირველადი დახმარება პირველადი დახმარების ყუთი	ზომები საგანგებო სიტუაციის დროს 112 . გადაუდებელი დახმარების ცენტრი		

9 Annex 2 - Accreditation Certificate

