

# Annual Environmental Monitoring Report

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Project Number: 3520-GEO

Reporting period: July – December 2018

## Republic of Georgia: Batumi Bypass Road Project

Financed by the Asian Development Bank

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**For:** the Road's Department of Ministry of Regional Development and Infrastructure of Georgia.

**Endorsed by:** Levan Kupatashvili, Deputy Chairman of Road's Department

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## Table of Contents

<b>1</b>	<b>INTRODUCTION</b>	<b>4</b>
1.1	Preamble	4
1.2	Headline Information	4
<b>2</b>	<b>PROJECT DESCRIPTION AND CURRENT ACTIVITIES</b>	<b>5</b>
2.1	Project Description	5
2.2	Project Contracts and Management	6
2.3	Project Activities during Current Reporting Period	8
2.4	Description of Any Changes to Project Design	10
2.5	Description of Any Changes to Agreed Construction methods	10
<b>3</b>	<b>ENVIRONMENTAL SAFEGUARD ACTIVITIES</b>	<b>11</b>
3.1	General Description of Environmental Safeguard Activities	11
3.2	Site Audits	11
3.3	Issues Tracking (Based on Non-Conformance Notices)	11
3.4	Trends	12
3.5	Unanticipated Environmental Impacts or Risks	12
<b>4</b>	<b>RESULTS OF ENVIRONMENTAL MONITORING</b>	<b>14</b>
4.1	Overview of Monitoring Conducted during Current Period	14
4.2	Summary of Monitoring Outcomes	16
4.3	Material Resources Utilisation	16
4.3.1	Current Period	16
4.4	Waste Management	16
4.4.1	Current Period	17
4.5	Health and Safety	17
4.5.1	Community Health and Safety	17
4.5.2	Worker Safety and Health	17
4.6	Trainings	19
<b>5</b>	<b>FUNCTIONING OF THE SSEMP</b>	<b>20</b>
5.1	SSEMP Review	20
<b>6</b>	<b>GOOD PRACTICE</b>	<b>25</b>
6.1	Good Practice	25
<b>7</b>	<b>SUMMARY AND RECOMMENDATIONS</b>	<b>26</b>
7.1	Summary	26
7.2	Recommendations	26
<b>8</b>	<b>ANNEXES</b>	<b>27</b>

<b>Annex 1. Pictures .....</b>	<b>27</b>
<b>Annex 2. Laboratory test for air, noise and vibration .....</b>	<b>33</b>
<b>Annex 3. Laboratory test for water .....</b>	<b>42</b>

## Abbreviations

<b>ADB</b>	Asian Development Bank
<b>CSCS</b>	Consultancy Services for the Construction Supervision
<b>CSC</b>	Construction Supervision Consultant
<b>EHS</b>	Environmental Health and Safety
<b>EIA</b>	Environmental Impact Assessment
<b>EIP</b>	Environmental Impact Permits
<b>EMR</b>	Environmental Monitoring Report
<b>EMP</b>	Environmental Management Plan
<b>EMS</b>	Environmental Management System
<b>GRC</b>	Grievance Redress Committee
<b>GRM</b>	Grievance Redress Mechanism
<b>LARP</b>	Land Acquisition and Resettlement Plan
<b>PIU</b>	Project Implementation Unit
<b>RD</b>	Road's Department
<b>RoW</b>	Right of way
<b>SSEMP</b>	Site Specific Environmental Management Plan
<b>TBA</b>	To be advised

# 1 INTRODUCTION

## 1.1 Preamble

1. This report represents the Bi - Annual Environmental Monitoring Review for **Batumi Bypass Road Project** for the period of July – December 2018.
2. This report is the 3<sup>rd</sup> EMR for the Batumi Bypass Road Project.

## 1.2 Headline Information

3. By December 2018, the Contractor has been given access to 88% of the full Site. However, the construction activities were ongoing only at several sections of the Site. The Contractor carried out construction activities of only Bridge N11, culvert N42, blasting of Tunnel N5 and soft soil treatment at section km12+100 to km12+600. At other sections of the Site, the Contractor carried out site clearance activities such as cutting of trees and bushes, demolishing of buildings and etc.

Issues identified during the reporting period are minor, as indicated below in the report and shown by the pictures attached to this document as Annex 1.

## 2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

### 2.1 Project Description

4. The 81-km Poti–Batumi–Sarpi Road (“S2” under Georgian Highway Designation) along the western coast of Georgia, located in the Adjara Autonomous Republic, is a key international highway and international transit route in Georgia. It is connected to the important towns Batumi, Poti and Kobuleti. Batumi is a major Black Sea port and a holiday resort; Poti is the largest port of Georgia; and Kobuleti is a holiday resort. Due to heavy traffic on S2, there has been significant increase in congestion and accidents particularly during the tourist season in Batumi and Kobuleti. The Government of Georgia plans to construct two roads around Batumi and Kobuleti to bypass the highway traffic from these towns.
5. The Project road, bypassing the city of Batumi from East, is entirely located in Khelvachauri District. The design alignment goes through the villages of Makhinjauri, Gantiadi, Kapreshumi, Salibauri, Peria, and Makhvilauri. Passing through the above villages, the design alignment crosses complex landscape of multiple ravines, streams, rivers, hills and hillsides. Thirteen kilometer of road, five tunnels, 19 bridges and four interchanges are planned along the Project alignment.
6. The project is classified as category A for the environment under ADB’s Safeguard Policy Statement (2009). Batumi Bypass Road project is being co-financed by the Asian Development Bank (ADB).

Map 1. Project Location Map



## 2.2 Project Contracts and Management

7. The Contract for CSCS was awarded to SMEC International Pty Ltd on September 2017 for three phases of the project:

**Phase 1** – Design review, to be completed in a period of three months. The Design Review Report was completed and submitted to RD on 26 December 2017.

**Phase 2** – Construction supervision and contract administration. The construction period is for 900 days.

**Phase 3** – Defects Notification Period, three years.

8. The TOR for the CSCS Contract contains the following tasks for the Environmental Specialists:
- Ensure that the provisions of the approved Environmental Management Plan are reflected in the Contractor's contract specific environmental management plan (CSEMP) prior to its acceptance by the Engineer, the Employer and ADB, and thereafter ensure that the Contractor complies in every respect with the provisions of the CSEMP;
  - Develop an environmental auditing protocol for the construction period, regularly supervise the environmental monitoring, and submit periodic reports based on the monitoring data and laboratory analysis reports. These reports will be included as an annex to the Consultant's Monthly Report;
  - Develop a program for hands-on training of Contractor's staff in implementing the CSEMP.
9. Contact details of the main organisations involved in the project relating to Environmental Safeguards, including lender, borrower, Main Contractor/s and significant sub-contractors are given in the **Table 1** below.

**Table 1. Main organizations involved in the project implementation**

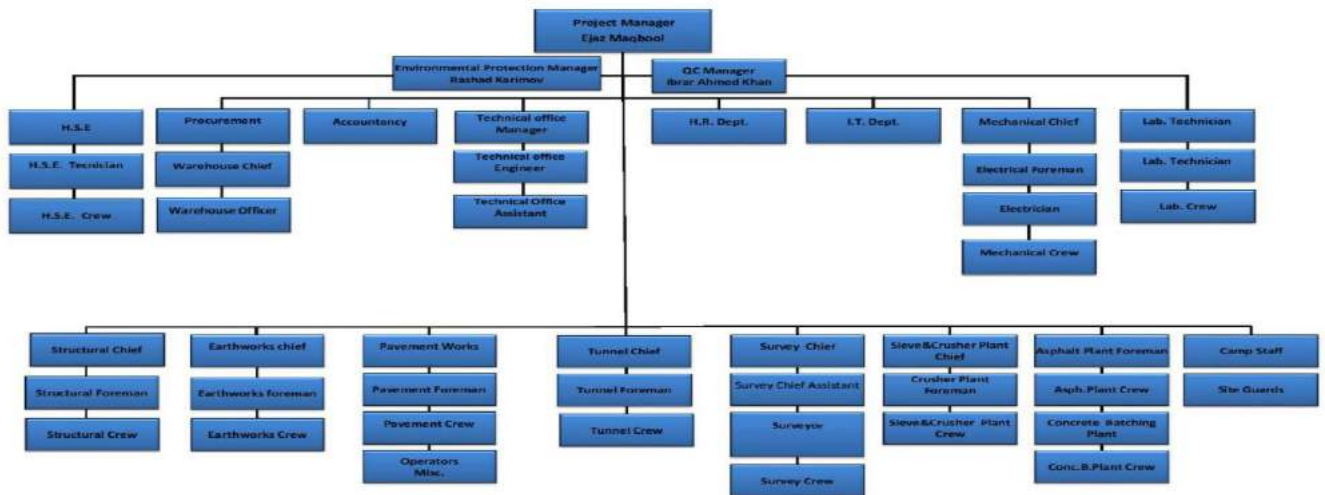
<b>Asian Development Bank</b>	Valerie Lisack Project Officer <a href="mailto:vlisack@adb.org">vlisack@adb.org</a>
<b>Asian Infrastructure Investment Bank</b>	Ghufran Shafi - Senior Investment Operations Specialist  Roberto Salgado – Investment Operations Specialist E-mail: <a href="mailto:Roberto.salgado@aiib.org">Roberto.salgado@aiib.org</a>
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<b>SMEC International Pty Limited</b>	<p>Syed Muhammad Latif International Environmental Specialist Phone: +7 (701) 7777 137 E-mail: <a href="mailto:Syed.Latif@smec.com">Syed.Latif@smec.com</a></p>
<b>UniProfGroup Ltd.</b>	<p>Tengiz Lagidze Local Environmental Specialist Tel: (+995) 595 93 96 30 E-mail: <a href="mailto:tengizlagidze@upg.ge">tengizlagidze@upg.ge</a></p> <p>Giorgi Shiukashvili Local Environmental Specialist Tel: (+995) 595 10 66 88 E-mail: <a href="mailto:giorgishiukashvili@upg.ge">giorgishiukashvili@upg.ge</a></p>

10. Under the Contract, the Contractor shall comply with all applicable national, provincial and local environmental laws and regulations as well as applicable respective standards under the Contract. The Contractor shall
- (a) Establish an operational system for managing environmental impacts,
  - (b) Develop the Environmental Management Plan (EMP) by identifying environmental risks arising from the Works, the mitigation measures to be applied, and monitoring to be carried out,
  - (c) Implement the required mitigation measures and monitoring,
  - (d) take any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the EMP, and
  - (e) Submit quarterly reports on the carrying out of such measures to the Engineer.
11. PolatYol & Mapa Joint Venture Project Manager, Mr. Ejaz Maqbool has responsibility for all aspects of environment at work undertaken on construction site. He will be responsible for strictly monitoring that PolatYol & Mapa Joint Venture services site management team conforms to all aspects of environment in accordance with PolatYol & Mapa Joint Venture environmental access policy and safety plan.
- Responsibility for daily management for environmental monitoring and implementation of the SSEMP is given to the Environmental Protection Manager Mr. Rashad Karimov. 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 is provided below in **Table 2**:



**Table 2. Contractor's Project Management Staff**



**2.3 Project Activities during Current Reporting Period**

12. The commencement is not yet fully granted to the Contractor: On 14 March 2018, Contractor got access to section km6+700-km12+830 while on 24 May 2018 – km1+750-km2+250. By 15 October 2018, Contractor received access to the following sections: km0+000-km0+650 and km2+250-km6+700. By December 2018, the Contractor does not have access to the following sections: km-1+000 – km1+750, km0+650 – km 1+750, km 12+830- km 13+325 i.e. the Contractor has access to 88% of the Site. During the reporting period, the Contractor completed construction activities of the Camp Site and Plant Yard including concrete batching plant and crushing plant.
13. Additionally, the Contractor commenced construction activities of Bridge N11 and culvert N42, blasting of Tunnel N5 and soft soil treatment by stone columns at section km12+100-km12+600. Progress of works carried out during the reporting period is summarized in table below:

**Table 3. Construction progress**

N	WORK DESCRIPTION	TOTAL AMOUNT	PERFORMED UPTO DATE	PROGRESS %
1	General Requirements and Provisional Sums	23,599,810.14	18,510,777.53	78.44%
2	Setting Out and Site Clearance	5,283,050.17	1,991,417.95	37.70%
3	Earthworks	11,486,738.12	438,131.79	3.81%
4	Culverts and Drainage	8,162,379.56	639,437.94	7.83%
5	Pavement	8,623,599.92	0.00	0.00%
6	Road Furniture and Road Marking	2,817,338.80	0.00	0.00%
7	Slope Protection	13,135,476.09	36,381.55	0.28%
8	Bridges - Precast Concrete Girder Bridges	56,367,067.85	0.00	0.00%
	Bridge N1	5,147,206.060	0.00	0.00%
	Bridge N2	3,293,332.820	0.00	0.00%

<b>N</b>	<b>WORK DESCRIPTION</b>	<b>TOTAL AMOUNT</b>	<b>PERFORMED UPTO DATE</b>	<b>PROGRESS %</b>
	Bridge N3	11,284,973.750	0.00	0.00%
	Bridge N3.1	998,678.930	0.00	0.00%
	Bridge N4	6,751,303.690	0.00	0.00%
	Bridge N6a	1,424,898.440	0.00	0.00%
	Bridge N6b	1,337,288.470	0.00	0.00%
	Bridge N6c	774,176.670	0.00	0.00%
	Bridge N6d	781,504.240	0.00	0.00%
	Bridge N7	5,808,958.510	0.00	0.00%
	Bridge N8	5,284,504.130	0.00	0.00%
	Bridge N8a	633,300.260	0.00	0.00%
	Bridge N9	3,592,031.480	0.00	0.00%
	Bridge N12	4,333,486.050	0.00	0.00%
	Bridge N13	3,428,154.970	0.00	0.00%
	Bridge N14	1,493,269.370	0.00	0.00%
9	Bridges - Double Cast in Place T-Grider Bridges	53,460,902.32	3,411,817.85	6.38%
	Bridge N5	15,256,413.520		
	Bridge N10	11,028,606.120	23,110.760	0.21%
	Bridge N11	27,175,882.680	3,388,707.090	12.47%
10	Tunnels	121,228,595.06	188,503.22	0.16%
	Tunnel N1	19,664,737.510		
	Tunnel N2	22,519,001.200		
	Tunnel N3	26,265,486.860		
	Tunnel N4	37,976,352.810		
	Tunnel N5	14,803,016.670	188,503.220	1.27%
11	Tunnel Equipment	24,662,669.16	0.00	0.00%
12	Dayworks	442,308.15	0.00	0.00%
	Total	329,269,935.34	25,216,467.83	7.65%

14. Total amount of Contractor's personnel is 219 people, 49 of whom are foreigners and 170 are local employees.

15. Up to this date, the Contractor has completed construction activities at the Camp Site and of the Batching Plant.

16. For the current information on Site and some of the identified problems. These are referred to below in this document and fully documented through pictures in **Annex 1** of this document.

#### **2.4 Description of Any Changes to Project Design**

17. During the previous reporting period, the Contractor had proposed several changes to all Bridges design, which is still under the review as the Contractor has not finalised their design submissions. Further, the whole of the proposal is going through the technical review of the Employer's team, therefore none of the changes have been approved yet. Up to the date of this report, the Design remains the same as it was originally provided during the Tender.

#### **2.5 Description of Any Changes to Agreed Construction methods**

18. During the monitoring process, the Contractor did not make any requests for changing the construction method or any other changes which might have influenced the Environmental Protection Plan.

### 3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

#### 3.1 General Description of Environmental Safeguard Activities

19. The Engineer's environmental protection specialists study the actions of the Contractor concerning environmental protection and the Contractor's monthly progress reports. Additionally, they review the information presented in the Monthly Progress Reports and conduct daily monitoring of the construction site.
20. The Engineer prepares the Monthly Reports, which are shared with RD, describing all the construction activities and respective effects, if any, on the environment.
21. Environmental specialists of the Contractor and the Engineer are conducting mutual weekly site visits (on a need basis) to monitor the situation on Site.

#### 3.2 Site Audits

22. In the second part of 2018 (July - December) the Engineer's specialists Tengiz Lagidze and Giorgi Shiukashvili conducted monitoring of the following construction sites:
  - ▶ Office and living campsite of the Contractor;
  - ▶ Construction campsite of the Contractor;
  - ▶ Access roads to Bridges and Tunnels;
  - ▶ 4<sup>th</sup> interchange;
  - ▶ Nearby territory of Tunnel #4;
  - ▶ Nearby territory of Tunnel #5;
  - ▶ Bridge #11;
  - ▶ Road sections;
  - ▶ Demolition of buildings;
  - ▶ Cutting and transportation of the trees.
23. The monitoring was not conducted on the borrow pit, which is being used by the Contractor based on the agreement concluded with the owner. The Contractor was required by the Engineer to present the copies of the borrow pit license and geoinformation package. Copies of license is provided by the Contractor with letter #GEO/BB/262-18 dated on 19<sup>th</sup> September 2018 which is located in Qeda Municipality in the vicinity of village Zvare. Please see Annex 6.

#### 3.3 Issues Tracking (Based on Non-Conformance Notices)

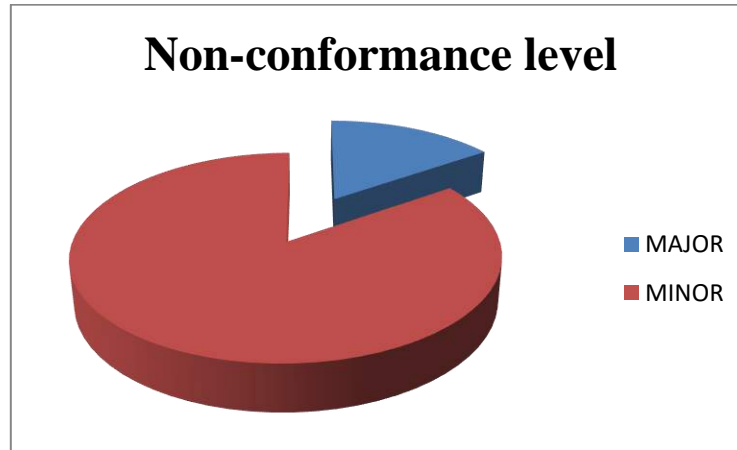
24. Description of issues tracked during the current reporting period is given in the **Table 4** below.

**Table 4. Summary of Issues Tracking Activity for Current Period**

<b>Total Number of Issues for Project</b>	25
<b>Number of Open Issues</b>	3
<b>Number of Closed Issues</b>	22
<b>Percentage Closed</b>	88%

<b>Issues Opened This Reporting Period</b>	12
<b>Issues Closed This Reporting Period</b>	11

**Figure 1. Summary of Issues by Non-Conformance**



25. From mentioned non-conformances, 1 from 12 is still remaining, 11 already closed. The latter issues have been followed up by the Non-Conformance Notices (NCN) letters of the Engineer with established deadlines for implementation of corrective actions. More details of non-conformances related to waste management are given in the chapter 5, **Table - 9**.

### 3.4 Trends

26. Most of the violations by the Contractor are oil spills by the vehicles, used tyres cover with soil, overfilled garbage bins and polluting channel water with concrete mix. The latter violations are gradually fixed and after the Engineer's observations, the Contractor takes respective endeavours and mitigation measures to resolve the issues.

### 3.5 Unanticipated Environmental Impacts or Risks

27. In the second part of 2018, there were several unanticipated circumstances, which had its environmental impact. The latter is outlined in the below table:

**Table 5. Unanticipated Environmental Impact**

<b>N</b>	<b>Environmental Impact</b>	<b>Outcome</b>	<b>Date, Photo</b>	<b>Mitigation Measure</b>	<b>Status</b>
1	During the construction Site preparation works near Bridge #11, the landslide has occurred on the steep slope, which	No physical injury for the personnel or equipment	10 October, 2018	The Contractor was instructed to prepare slope protection plan for the	The Contractor has presented the permanent solution for

	is the edge of the RoW.	has occurred		Engineer's approval	slope protection
2	During the Site works near Bridge #11, one of the Contractor's vehicle's high pressure hydraulic hose has burst and large amount of oil has spilled on the soil.	No physical injury has occurred for the personnel	12 December, 2018	The Engineer has immediately instructed the Contractor to remove the contaminated soil and remove to the dumpsite.	Contractor removed approx. 5m <sup>3</sup> contaminated soil to the dumpsite for disposal according to their oil spill management plan.

## 4 RESULTS OF ENVIRONMENTAL MONITORING

### 4.1 Overview of Monitoring Conducted during Current Period

28. During the period of 16.08.18 - 19.08.18 an independent laboratory Batumis Tskali Ltd. has conducted a chemical-bacteriologic analysis on the sample of the potable water taken from the water-well of Contractor's construction campsite. The Georgian version as well as translation in English language of the results can be found in **Annex 3**. The results of water quality tests are acceptable considering Georgian Maximum Permissible Concentrations (see **Table 6**).

**Table 6. Chemical-bacteriologic analysis on the sample of water**

#	Examination indicator	Unit of measurement	Maximum Allowable Limits	Result obtained	Test method
Organoleptic indicators					
1	Hydrogen indicator (PH)	Celsius		14	
2	Sulphates	points	2	0	GOST 3351074
3	Coloration	degree	15	0	HACH method 8025
4	Turbidity (kaolin)	mg/l	2.0	0.28	ISO7027:1999
5	Hydrogen indicator (PH)		6-9	7.71	ISO10523:2008
6	Permanganate oxidation	mg/l	3-10	0.16	ISO8467:2007

29. The contractor hired independent laboratory to conduct noise (**Annex 2**) and air analysis. Monitoring results do not exceed the national norms for atmospheric pollution as well as IFC/WB standards. The Contractor is requested to prepare SEMP for night shift works where mitigation measures for environment and strengthened safety measures is considered as well as conducting of additional noise and vibration monitoring. As for vibration monitoring during blasting operations, the Contractor uses tunnel blasting sub-contractors equipment to monitor vibration. Vibration monitoring data and information and certificates on vibration monitoring devices are given in **Annex 5**.

Noise measurement results

Place of measurement	Time of measurement	Maximum level of sound (db)

Adjacent territory of the camps and office	10:22	51.8 db
The construction camp of the company	10:52	46.1 db
Makhvilauri adjacent territory of 12+600	11:15	71.4 db

30. On 4 July and 5 September 2018 the certified laboratory has measured the parameters of atmospheric air at the territory of office-living campsite and construction sites. Results of tests in Georgian language are enclosed as **Annex 2** to the report. The result of air quality tests are acceptable considering Georgian Standards for Ambient Air Quality and do not exceed the national norms for atmospheric pollution as well as IFC/WB standards (see **Table 7**).

**Table 7. Parameters of atmospheric air at the territory of office-living campsite**

#	Name of substance	Measurement area/Measurement time	Measurement result (mg/m <sup>3</sup> ) maximal single	Georgian Standards	IFC Guideline Value (Limit (mg/m <sup>3</sup> ))	Name of method
	1	2	3	4	5	6
1	Nitrogen dioxide (NO <sub>2</sub> )	Adjacent territory of the Company address (in the yard 14:15)	0.1	0.85	0.2 / 1 Hour 0.04 / 1 Year	Tech.Reg .N435-13
2	Hydrogen Sulfide (H <sub>2</sub> S)	Adjacent territory of the Company address (in the yard 14:15)	The content of H <sub>2</sub> S was not detected	0.008	N/A	Tech.Reg .N435-13
3	Sulfure dioxide (SO <sub>2</sub> )	Adjacent territory of the Company address (in the yard 14:15)	The content of SO <sub>2</sub> was not detected	0.5	0.5 / 10 min	Tech.Reg .N435-13
4	Carbon Oxide CO	Adjacent territory of the Company address (in the yard 14:15)	The content of CO was not detected	5.0	N/A	Tech.Reg .N435-13
5	Dust (solid particles)	Adjacent territory of the Company address (in the yard 14:20)	0.25	0.3	(*IFC does not have a standard for "inorganic dust". Instead IFC applies	GOST P ISO9096-06



					standards for PM2.5 and PM10). PM10 – 0.02/1 Year 0.05/24 Hour PM2, 5- 0.01/1 Year 0.025/24 Hour	
6	Hydrocarbons (CnHm)	Adjacent territory of the Company address (in the yard 14:15)	0.02	–	N/A	Tech.Reg .N435-13

## 4.2 Summary of Monitoring Outcomes

31. To monitor and control the parameters for air quality, level of noise and vibration, the Contractor must own appropriate equipment for measuring the quality of the air, level of noise and vibration at the construction campsites. In the future, in case the Contractor uses the borrow pits, additional monitoring will be conducted on the excavation and transportation. Furthermore, additional monitoring will be conducted on every newly started construction works by the Contractor. For now Contractor uses Independent Laboratory for measuring noise level, air and water quality.

## 4.3 Material Resources Utilisation

32. The Contractor is instructed to remove and utilize the metal scraps. As for the trees, which were cut within the project, the Engineer is trying to resolve the issue and deliver it to the local governing bodies. For storing and utilization scrap material the Contractor is using construction campsite. As for cut trees, they are temporarily stored at the adjacent of Interchange N4 while negotiations with local municipality about final disposal is on-going.

### 4.3.1 Current Period

33. At this stage, the Engineer has no information about the utilization of water and other materials. This information will be provided in the next Semi-annual EMR as for January-June 2019 reporting period.

## 4.4 Waste Management

34. The Contractor has arranged the detailed plan for Waste Management. The contractor has concluded an agreement with Batumis Tskali Ltd concerning hazardous residual water and sewage water, and concluded an agreement with Sandasuftaveba Ltd for household waste disposal.
35. Despite these actions, number of violations/non-conformances were detected during the reporting period:

- ▶ Several times overfilled garbage containers were detected on the office-living campsite;
- ▶ Overfilled garbage container was detected on the Contractor's Construction Site;
- ▶ On the territory of office-living campsite, there are two asbestos pipes, which are considered as the hazardous waste;
- ▶ There are empty cement bags on the construction site;
- ▶ There are remnants of gypsum board on the construction site;
- ▶ The little amount of metal scraps are detected on the construction site;
- ▶ There are used tyres on the section km12+800 of the construction site;
- ▶ There are stumps of the cut trees on the section Km 12+800 of the construction.

#### 4.4.1 Current Period

36. For the given reporting period, there no information presented that reflects the details of specific types of the waste, their weight and exact sources of utilization. The Contractor was instructed to classify the waste, but so far no actions were taken. Thus, the results will be reflected in the next Semi-annual EMR.

#### 4.5 Health and Safety

37. The Contractor has appointed an accident prevention officer Mr. Dimitri Gvantseladze at the Site, who is responsible for maintaining safety and protection against accidents. He is available on site every day.

38. Supervision Engineer has one local EHS specialist – Giorgi Shiukashvili. In nearest future it is considered mobilisation of additional H&S officer.

##### 4.5.1 Community Health and Safety

39. During this reporting period no car accident or any major accidents had been recorded.

##### 4.5.2 Worker Safety and Health

40. Analysis of the accidents that happened during the reporting period are as follows:

**Table 8. Accidents**

	Date	Accident	Current status
1	June, 2018	Unknown insect sting on a worker's arm. The inflammation was revealed in time.	The Contractor's relevant specialist implemented necessary corrective measure.
2	18.07.2018	At the Site of Concrete Plant brake system of the truck damaged.	Vehicles were technically checked; The head of auto fleet was strictly instructed to take care of timely repairing of the vehicles.

3	25.07.2018	At section km12+780 truck turned back and caused the damage of the right side glass and wind glass.	To prevent such accidents in future drivers were instructed to take into consideration the wetness of loading material. The truck should be loaded with dry soil and then wet soil in order to prevent soil adhere to the board.
4	08.08.2018	During excavation at section km12+270 explosives were found.	The activities were stopped, workers were evacuated, and Police was called.
5	24.08.2018	During stripping of topsoil at section km7+100-km7+400 guns and other explosive material was found	The activities were stopped, workers were evacuated, and Police was called.
6	21.09.2018	At the territory of concrete plant driver closed the door of the car while the foreman was holding on it and damaged his hand.	The foreman was taken to hospital and his hand was bandaged.
7	22.09.2018	At the territory of concrete plant during installation of reinforcement steel cages the worker did not pay attention to the bars and damaged his right eye area.	The worker received relevant treatment and continued working
8	10.10.2018	At the campsite the Employee had chest pain.	He was quickly hospitalized, and his health condition is satisfactory after treatment.
9	17.11.2018	Due to heavy rain construction site was washed out. The construction works were conducted by means of crane. During lifting the weight the crane lost stability and turned over. Nobody was injured.	Workers were given training on safety.
10	12.12.2018	During cutting of the tree the worker made sharp movement to prevent the damages and slipped and fell on already cut tree.	He was immediately transported to hospital. On the same day he was sent home with minor injuries.

11	20.12.2018	In Makhvilauri two dump trucks faced each other. One of the drivers moved aside while there was not enough width of road. The truck slipped turned over and fell in the yard of local resident.	The road sign was installed. The Drivers were given safety education. Property of local resident is to be restored.
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#### Trends related to the accidents

Accident Type	Reporting Period (July - Dec 2018)	Total
Near Miss	3	3
Accident Minor	8	8
Accident Major	0	0

#### 4.6 Trainings

41. As per Contractor's information workers are given trainings about health, safety and fire protection issues every week since July 2018.
42. Contractors' HSE specialist Dimitri Gvantseladze with two assistance is controlling Site on daily basis to ensure that every worker is wearing of safety gear.

#### 4.7 Grievance Redress Mechanism and Complaints

43. During reporting period 12 grievances were received. None of them are solved so far. The main reason for it is that almost all of them (10) are requesting inclusion in the acquisition list due to various reasons. All of them are under monitoring and further investigation. Remaining two cases are about possible damage to residential structures due to blasting works of the tunnel. Both of the houses are being monitored by the Consultant's and Contractor's teams. Please see grievance list attached as **Annex 4**.

## 5 FUNCTIONING OF THE SSEMP

### 5.1 SEMP Review

44. SEMP was prepared by the Contractor and submitted to the Engineer on 30 May 2018 by letter GEO/BB/103-18 is prepared in a good manner despite certain inconsistency and is under improvement by the Contractor according to the comments of the Engineer, RD and ADB. It includes all aspects of project construction and construction sites. In particular:

- ▶ Soil Management Plan;
- ▶ Water Management Plan;
- ▶ Dust Management Plan;
- ▶ Noise & Vibration Management Plan;
- ▶ Waste Management Plan;
- ▶ Spoil Management Plan;
- ▶ Spill Prevention Management Plan;
- ▶ Borrow Pit Management Plan;
- ▶ Flora and Fauna Management Plan;
- ▶ Cultural and Archaeological Management Plan; and
- ▶ Grievance Redress Mechanism.

45. Additionally the Contractor is preparing SEMP for night shift works which will be an amendment of original SEMP and will cover mitigation measures and safety issues during night time works.

46. During the reporting period, the following non-conformances have been identified (see **Table 9**).

The Contractor was informed about the pending environmental problems and the action plan was worked out to implement the corrective actions and term for mitigation of non-conformances as outlined below.

**Table 9. Identified non-conformances**

Affected Objects	Raised Issues	Mitigation Events	Estimated term of fulfilling works	State of the action
km11+201	The gravel soil contaminated by oil has been found by the Engineer	Remove patch of contaminated soil and fill up with gravel	August 2018	Fulfilled
km11+201	At section km11+201 the soil was polluted by oil	Clean oil leaks	September 2018	Fulfilled

<b>km10+201</b>	At section km10+201 protection blocks were removed that is a risk to traffic safety.	Place protective blocks and relevant road signs	September 2018	Fulfilled
<b>Tunnel N5/Interchange N4</b>	Contractor fixed track of spilled oil product at the territory of access road of Tunnel N5 and Interchange N4	Clean oil spills	October 2018	Fulfilled
<b>Bridge #11/Construction campsite</b>	Engineer fixed contractor's personnel who were not wearing Personal Protective Equipment, particularly, helmets and gloves;	Instruct workers to use PPE on a regular basis, and carry out spot checks on a daily basis	October 2018	Fulfilled
<b>Construction campsite</b>	Engineer fixed concrete mixer's driver was washing the basin in the drainage channel;	Instruct and educate workers about environmental pollution issues  Carry out daily monitoring	October 2018	Fulfilled
<b>Bridge N11</b>	At the territory of Bridge N11 local road is polluted by Contractor's equipment;	Clean the road regularly	October 2018	Fulfilled

<b>Bridge N11</b>	At the territory of Bridge N11 river bed was polluted by waste water from concreting works. The Contractor was immediately informed about this issue. (Letter No. 5015001/2/473).	Sediment trap/pond set up to minimize pollution of river water	January 2019	Is not fulfilled
<b>Tunnel N5/ Construction Campsite</b>	At the territory of Tunnel N5 portal and Construction Campsite steel reinforcement bars are placed directly on the ground without any cover.	Place the bars on concrete pad and cover them accordingly to protect from rain	December 2018	Fulfilled
<b>Tunnel #5</b>	The Personnel does not use respirators when stuffing cement into bunker of the Aggregate mixer, which has a negative impact on their health	Instruct workers to use PPE on a regular basis, and carry out spot checks on a daily basis.	December 2018	Fulfilled
<b>Tunnel #5</b>	Empty cement paper bags are burnt in the open air at Tunnel No 5 Portal Area which resents a rough violation	Instruct and educate workers about environmental pollution issues. Carry out daily monitoring.	December 2018	Fulfilled

<b>Tunnel #5</b>	The personnel did not use protective equipment when working with metal-cutter - angle grinder	Instruct workers to use PPE on a regular basis, and carry out spot checks on a daily basis.	December 2018	Fulfilled
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47. Status of the non-conformances pending from last Bi-Annual Environmental Monitoring Report is outlined below in **Table 10**.

**Table 10. Status of non-conformances from previous Bi-Annual EMR**

<b>Affected Objects</b>	<b>Raised Issues</b>	<b>Mitigation Events</b>	<b>Estimated term of fulfilling works</b>	<b>State of the action</b>
<b>Office-living campsite</b>	2 asbestos pipes	Pipes must be wrapped in an appropriate manner and transported into the landfills.	August 2018	Fulfilled
<b>Office-living campsite</b>	Trash containers are overfilled periodically	Trash containers must be cleaned regularly	August 2018	Is not fulfilled
<b>Construction Campsite</b>	There are empty cement bags on the ground	Must be transported into the landfills	August 2018	Fulfilled
<b>Construction Campsite</b>	Remnants of gypsum board	Must be transported into the landfills	August 2018	Fulfilled
<b>Construction Campsite</b>	Little amount of metal scraps are detected	Must be removed to the scrap shop	August 2018	Fulfilled
<b>Construction Campsite</b>	Trash container is overfilled	Must be cleaned regularly	August 2018	Is not fulfilled



<b>4<sup>th</sup> Interchange (KM12+800)</b>	There are used tyres at the territory	Must be transported into dumpsite or to the utilization center	August 2018	Ongoing
<b>4<sup>th</sup> Interchange (KM12+800)</b>	There are stumps of cut tree on the territory	Must be transported into the stockpile	August 2018	Fulfilled
<b>Nearby territory of the section KM8+600</b>	On the nearby territory of the road there are parts of cut trees (benches) on the ground	Must be transported into the stockpile	August 2018	Fulfilled
<b>Project Road</b>	Debris of the demolished building	Must be transported into the stockpile	August 2018	Ongoing
<b>Project Road</b>	There are no warning and information signs	Warning signs must be installed at every construction site access road	August 2018	Fulfilled

48. At this stage, presented mitigation measures are effective and there is no need for corrections or alternatives. Given activities provide reduction of risk and influence on the environment.

## **6 GOOD PRACTICE**

### **6.1 Good Practice**

Not yet applicable.

## **7 SUMMARY AND RECOMMENDATIONS**

### **7.1 Summary**

49. It should be highlighted that the work carried out by the Contractor for Environmental Protection was assessed positively by the Engineer. The actions of the Contractor didn't have any negative effect on biodiversity and no poaching actions were evident. Additionally, no facts of law violation has been detected by the local Environmental Supervision Department.
50. For the given period, as a progress it may be noted that the Contractor ensured the following:
- ▶ Developed the Winter working program and submitted it to the engineer;
  - ▶ Timely delivery of Monthly Monitoring Reports to the Engineer;
  - ▶ Developing and timely delivery of the Health Safety Management Plan to the Engineer;
  - ▶ Concluding the Agreement on removing of household waste;
  - ▶ Concluding the Agreement on delivery/installation of the Fire inventory;
  - ▶ Provision of safety equipment for the working personnel;

### **7.2 Recommendations**

51. Contractor to complete updating of SEMP and Supervision Consultant to endorse the document – February 2019
52. Contractor should purchase the equipment for measuring the level of noise and vibration and to check the atmospheric air quality - Monthly.
53. Contractor should strengthen controlling of wearing safety gear.
54. Contractor should ensure more waste containers at site and regular cleaning.
55. Contractor should increase number of bio toilets at site – Q1 2019.
56. Contractor should install fencing near the areas where explosives have been found February 2019.
57. Supervision Consultant to consider hiring of additional H&S officer in Q2-Q3 2019.

## **8 ANNEXES**

### **Annex 1. Pictures**

**Picture 1 Tree cutting**



**Picture 2 Tree cutting**



**Picture 3 Demolition of building**



**Picture 4 Site cleaning**



**Picture 5 Water sprinkling**



**Picture 6 Site cleaning**





**Picture 7 Discovery of explosives**



**Picture 8 Doctor's room**



**Picture 9 Measurement of Air quality**



**Picture 10 Blocked water channel**



**Picture 11 Tree storage**



**Picture 12 Soil removal**





**Picture 13 Water sprinkling**



**Picture 14 Garbage at construction camp**



**Picture 15 Oil spots**



**Picture 16 Demolition of buildings**



**Picture 17 Stone column works**



**Picture 18 Pile foundations**



**Picture 19 Washing of concrete truck**



**Picture 20 Garbage container**



**Picture 21 Concrete**



**Picture 22 Garbage**



**Picture 23 Working without respirators**



**Picture 24 Rock braking**





**Picture 25 Tunnel #5**




**Picture 26 Slope cutting**



## Annex 2. Laboratory test for air, noise and vibration

<p>სამეცნიერო-კვლევითი ცენტრი საქართველოს ავტონომიური რეპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ სამეცნიერო-კვლევითი ცენტრი ქ.ბათუმი 6010, ქ.კვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalaha@gmail.com</p>		<p>GEORGIA MINISTRY OF AGRICULTURE OF THE AUTONOMOUS REPUBLIC OF AJARA, LEPL LABORATORY RESEARCH CENTRE KVEDA SAMEBA, 6010 BATUMI GEORGIA TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalaha@gmail.com</p>		
<p>სამეცნიერო-კვლევითი ცენტრი /ACREDITATION CERTIFICATE - GAC TL-0168 (20.11.17 - 20.11.21)</p>				
<p>The Protocol of the Research N/3537</p>				
<p>Sample Identification Code: 64-L88-1-02-18</p>	<p>05.07.2018</p>			
<p>Customer - Branch of foreign enterprise „JSC Polar Yul Yapi Sanayi Ve Ticaret“ in Georgia</p>				
<p>The Subject of the research, address - Opiza street N:97, Khelvachauri.</p>				
<p>Date, time of sample entry in the laboratory - 04.07.18; 15:40</p>				
<p>Purpose of the Research - Measurements of dust (solid particles), nitrogen dioxide, hydrogen sulfide, sulfur dioxide, hydrocarbons group, carbon oxide and relative humidity in atmospheric air.</p>				
<p>Measurements Result</p>				
<p>N</p>	<p>Name of substance</p>	<p>Measurement area, measurement time</p>	<p>Measurement result (mg/m3) maximally single</p>	<p>Name of the Method</p>
<p>1</p>	<p>Nitrogen dioxide (NO<sub>2</sub>)</p>	<p>Adjacent territory of the company address (in the yard) 14:15</p>	<p>131</p>	<p>Tech. Reg. N-435-13</p>
<p>2</p>	<p>Hydrogen sulfide (H<sub>2</sub>S)</p>	<p>Adjacent territory of the company address (in the yard) 14:15</p>	<p>Did not turn out</p>	<p>Tech. Reg. N-435-13</p>
<p>3</p>	<p>sulfur dioxide (SO<sub>2</sub>)</p>	<p>Adjacent territory of the company address (in the yard) 14:15</p>	<p>Did not turn out</p>	<p>Tech. Reg. N-435-13</p>
<p>4</p>	<p>Carbon oxied (CO)</p>	<p>Adjacent territory of the company address (in the yard) 14:15</p>	<p>Did not turn out</p>	<p>Tech. Reg. N-435-13</p>
<p>5</p>	<p>dust (solid particles)</p>	<p>Adjacent territory of the company address (in the yard) 14:20</p>	<p>0.20</p>	<p>GOST P ISO 9096-06</p>
<p>6</p>	<p>hydrocarbons (CnHm)</p>	<p>Adjacent territory of the company address (in the yard) 14:15</p>	<p>0.01</p>	<p>Tech. Reg. N-435-13</p>
<p>The result spreads only on the presented sample</p>				
<p>Responsible performer:</p>			<p>J. Tsetskhaladze</p>	
<p>Head of the Testing Laboratory:</p>			<p>E. Antonishvili</p>	

<p>საქართველო. აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p>		<p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE KVEDA SAMEBA, 6010 BATUMI GEORGIA TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p>								
<p>აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)</p>										
<p>გამოცდის ოქმი N-4732</p>										
<p>05.09.2018 წ</p>										
<p>ნიმუშის საიდენტიფიკაციო კოდი: 64-223-3-02-18 გაზომების ჩატარების თარიღი: 04.09. 2018 წ დამკვეთი - შპს სს. ფოლათ იაფი სანაღი ვე თიჯარეთი" ხელვაჭაური ოპიზრების ქუჩა N-97 ხმაურის სავარაუდო წყარო: კომპანიის საცხოვრებელი ბანაკისა და ოფისის ტერიტორია გამოკვლევის მიზანი: ხმაურის დონის განსაზღვრა გაზომების (გამოცდა) მეთოდი: გოსტ 23337-14</p>										
<p>გაზომების შედეგი</p>										
<p>გაზომების ჩატარების ადგილი</p>	<p>მანძილი ხმაურის სავარაუდო წყაროდან</p>	<p>გაზომების დრო</p>	<p>ხმაურის მახასიათებელი</p>				<p>ბერის მაქსიმალური დონე LA მაქს. დბ A გაზომების შედეგი</p>			
			<p>მუდმივი ხმაური</p>	<p>არამუდმივი ხმაური</p>						
<p>დროში მერყევი</p>	<p>წყვეტილი</p>	<p>იმპულსური</p>	<p>ბანაკის ოფისის მიმდებარე ტერიტორია (ცხოველი)</p>	<p>-----</p>	<p>10:22</p>	<p>-</p>	<p>+</p>	<p>+</p>	<p>-</p>	<p>51,8 დბ/დბ</p>
<p>კომპანიის სამსახურლო ბანაკი ხელვაჭა. სამრეწ. ზონა</p>	<p>-----</p>	<p>10:52</p>	<p>-</p>	<p>+</p>	<p>+</p>	<p>-</p>	<p>46,1 დბ/დბ</p>			
<p>ხელვაჭაური მსხვე ილაური 12-600კმ მოსვ. ტერიტორია</p>	<p>-----</p>	<p>11:15</p>	<p>-</p>	<p>+</p>	<p>+</p>	<p>-</p>	<p>71,4 დბ/დბ</p>			

პასუხისმგებელი შემსრულებელი სპეციალისტი:

საგამოცდო ლაბორატორიის უფროსი:



ჯ. იცხლაძე

ე. ანტონიშვილი

1/1



<p>საქართველო. აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010. ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p>		<p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE KVEDA SAMEBA.6010 BATUMI GEORGIA TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p>		
<p>აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)</p>				
<p>გამოკვლევის ოქმი N:4734</p>		<p>05.09.2018 წ.</p>		
<p>ნიმუშის საიდენტიფიკაციო კოდი - 64-225-1-02-18 დამკვეთი --- შპს სს „ფოლათ იოლ იაფი სანაიი ვე თიჯარეთი“ გამოკვლევის ობიექტი, მისამართი - ხელვაჩაური, მახვილაური 12+600კმ. მიმდებარე ტერიტორია ნიმუშის ლაბორატორიაში შემოსვლის თარიღი და დრო - 04.09.18 12:55 გამოკვლევის მიზანი - ატმოსფერულ ჰაერში მტვრის (მყარი ნაწილაკები), აზოტის დიოქსიდის, გოგირდწყალბადის, გოგირდის დიოქსიდის, ნახშირწყალბადების ჯგუფისა, ნახშირბადის ოქსიდის და ფარდობითი ტენიანობის გაზომვები.</p>				
<p>გაზომვის შედეგი</p>				
N	საკვლევი პარამეტრი	გაზომვის ადგილი, გაზომვის დრო	გაზომვის შედეგი (მგ/მ <sup>3</sup> ) მაქსიმალურად ერთჯერადი	გამოგდის მეთოდი
	1	2	3	4
1	აზოტის დიოქსიდი (NO <sub>2</sub> )	მახვილაური 12-600კმ მიმდებარე ტერიტორია 11:32	0.1	ტექ.რეგლ. N:435-13
2	გოგირდწყალბადი (H <sub>2</sub> S)	მახვილაური 12-600კმ მიმდებარე ტერიტორია 11:32	არ აღმოჩნდა	ტექ.რეგლ. N:435-13
3	გოგირდის დიოქსიდი (SO <sub>2</sub> )	მახვილაური 12-600კმ მიმდებარე ტერიტორია 11:32	არ აღმოჩნდა	ტექ.რეგლ. N:435-13
4	ნახშირბადის ოქსიდი (CO)	მახვილაური 12-600კმ მიმდებარე ტერიტორია 11:32	არ აღმოჩნდა	ტექ.რეგლ. N:435-13
5	მყარი ნაწილაკები (მტვერი)	მახვილაური 12-600კმ მიმდებარე ტერიტორია 11:37	0.15	ГОСТ P ISO 9096-06
6	ნახშირწყალბადები (CnHm)	მახვილაური 12-600კმ მიმდებარე ტერიტორია 11:32	არ აღმოჩნდა	ტექ.რეგლ. N:435-13
<p>შედეგი ვრცელდება წარმოდგენილ ნიმუშზე მასუბისმებელი შემსრულებელი სპეციალისტი: <span style="float: right;">ჯ. ცეხლაძე</span></p>				
<p>საგამოცდო ლაბორატორიის უფროსი: <span style="float: right;">ე. ანტონიშვილი</span></p>				
				
<p>1/1</p>				

<p>საქართველო. აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010. ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p>		<p style="text-align: center;"><b>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE KVEDA SAMEBA.6010 BATUMI GEORGIA TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</b></p>
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**აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)**

გამოკვლევის ოქმი №4731

05.09.2018 წ.

ნიმუშის საიდენტიფიკაციო კოდი - 64-222-1-02-18  
 დამკვეთი --- შპს სს.„ფულათ იოლ იაფი ხანაიი ვე თიჯარეთი“  
 გამოკვლევის ობიექტი, მისამართი - კომპანიის საცხ. ბანაკისა და ოფისის ტერიტორიაზე აღებული ნიმუშების ქ №97  
 ნიმუშის ლაბორატორიაში შემოსვლის თარიღი და დრო - 04.09.18 12:55  
 გამოკვლევის მიზანი - ატმოსფერულ ჰაერში მტერის (მყარი ნაწილაკები), აზოტის დიოქსიდის,  
 გოგირდწყალბადის, გოგირდის დიოქსიდის, ნახშირწყალბადების ჯგუფისა, ნახშირბადის ოქსიდის და  
 ფარდობითი ტენიანობის გაზომვები.

**გაზომვის შედეგი**

N	საკვლევი პარამეტრი	გაზომვის ადგილი, გაზომვის დრო	გაზომვის შედეგი (მგ/მ <sup>3</sup> ) მაქსიმალურად ერთეურად	გამოცდის მეთოდი
1	2	3	4	5
1	აზოტის დიოქსიდი (NO <sub>2</sub> )	ბანაკის ოფისის მიმდებარე ტერიტორია (ეზოში) 10:15	0.1	ტექ.რეგლ.№435-13
2	გოგირდწყალბადი (H <sub>2</sub> S)	ბანაკის ოფისის მიმდებარე ტერიტორია (ეზოში) 10:15	არ აღმოჩნდა	ტექ.რეგლ.№435-13
3	გოგირდის დიოქსიდი (SO <sub>2</sub> )	ბანაკის ოფისის მიმდებარე ტერიტორია (ეზოში) 10:15	არ აღმოჩნდა	ტექ.რეგლ.№435-13
4	ნახშირბადის ოქსიდი (CO)	ბანაკის ოფისის მიმდებარე ტერიტორია (ეზოში) 10:15	არ აღმოჩნდა	ტექ.რეგლ.№435-13
5	მყარი ნაწილაკები (მტვერი)	ბანაკის ოფისის მიმდებარე ტერიტორია (ეზოში) 10:20	0.25	ГОСТ Р ISO 9096-06
6	ნახშირწყალბადები (CnHm)	ბანაკის ოფისის მიმდებარე ტერიტორია (ეზოში) 10:15	0.02	ტექ.რეგლ.№435-13

შედეგი ვრცელდება წარმოდგენილ ნიმუშზე  
 პასუხისმგებელი შემსრულებელი სპეციალისტი:

ჩ. ტეხლაძე

საგამოცდო ლაბორატორიის უფროსი:

ე. ანტონიშვილი





<p>საქართველო. აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.მათუმი 6010. ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p>		<p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE KVEDA SAMEBA.6010 BATUMI GEORGIA TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p>		
<p>აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)</p>				
<p>გამოკვლევის ოქმი N-4733</p>				
<p>05.09.2018 წ.</p>				
<p>ნიმუშის საიდენტიფიკაციო კოდი - 64-224-1-02-18 დამკვეთი --- შპს სს. "ფოლათ იოლ იაფი ხანაი ვე თოჯარეთი" გამოკვლევის ობიექტი, მისამართი - კომპანიის სამშენებლო ბანაკი, ხელვაჩაური სამრეწველო ზონა ნიმუშის ლაბორატორიაში შემოსვლის თარიღი და დრო - 04.09.18 12:55 გამოკვლევის მიზანი - ატმოსფერულ ჰაერში მტვრის (მყარი ნაწილაკები), აზოტის დიოქსიდის, გოგირდწყალბადის, გოგირდის დიოქსიდის, ნახშირწყალბადების ჯგუფისა, ნახშირბადის ოქსიდის და ფარდობითი ტენიანობის გაზომვები.</p>				
<p>გაზომვის შედეგი</p>				
N	საკვლევი პარამეტრი	გაზომვის ადგილი, გაზომვის დრო	გაზომვის შედეგი (მგ/მ <sup>3</sup> ) მაქსიმალურად ერთჯერადი	გამოცდის მეთოდი
	1	2	3	4
1	აზოტის დიოქსიდი (NO <sub>x</sub> )	კომპანიის სამშენებლო ბანაკის მიმდებარე ტერიტორია 10:45	0.1	ტექ.რეგლ. N-435-13
2	გოგირდწყალბადი (H <sub>2</sub> S)	კომპანიის სამშენებლო ბანაკის მიმდებარე ტერიტორია 10:45	არ აღმოჩნდა	ტექ.რეგლ. N-435-13
3	გოგირდის დიოქსიდი (SO <sub>2</sub> )	კომპანიის სამშენებლო ბანაკის მიმდებარე ტერიტორია 10:45	0.1	ტექ.რეგლ. N-435-13
4	ნახშირბადის ოქსიდი (CO)	კომპანიის სამშენებლო ბანაკის მიმდებარე ტერიტორია 10:45	არ აღმოჩნდა	ტექ.რეგლ. N-435-13
5	მყარი ნაწილაკები (მტვერი)	კომპანიის სამშენებლო ბანაკის მიმდებარე ტერიტორია 10:50	0.20	ГОСТ Р ISO 9096-06
6	ნახშირწყალბადები (CnHm)	კომპანიის სამშენებლო ბანაკის მიმდებარე ტერიტორია 10:45	0.02	ტექ.რეგლ. N-435-13
<p>შედეგი ვრცელდება წარმოდგენილ ნიმუშზე პასუხისმგებელი მუშურულზელია სპეციალისტი:</p>				
<p>საგამოცდო ლაბორატორიის უფროსი:</p>				<p>ჯ. ანტონიშვილი</p>
<p>1/1</p>				

საქართველო.  
 აჭარის ავტონომიური რესპუბლიკის  
 სოფლის მეურნეობის სამინისტრო.  
 სსიპ ლაბორატორიული კვლევითი  
 ცენტრი  
 ქ.ბათუმი 6010.ქვედა სამება  
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 ელ.ფოსტა: samebalab@gmail.com



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აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)

Protocol of the Test N:4734

Date 05.09.2018

Identification code of sample - 64-225-1-02-18

Customer - Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia.

The subject of the research, address – Makhvilauri 12+600km., adjacent territory, Khelvachauri.

Date and time of sample entry in the laboratory - 04.09.18 12:55

Purpose of the research – Measurements of dust (solid particles), nitrogen dioxide, hydrogen sulfide, sulfur dioxide, hydrocarbons group, carbon oxide and relative humidity in atmospheric air.

Measurement result

N	Name of substance	Measurement area, measurement time	Measurement result (mg/m <sup>3</sup> )	Name of the Method
	1	2	3	4
1	Nitrogen dioxide (NO <sub>2</sub> )	Makhvilauri 12+600km., adjacent territory 11:32	0.1	Tech. Reg. N:435-13
2	Hydrogen sulfide (H.S)	Makhvilauri 12+600km., adjacent territory 11:32	Did not turn out	Tech. Reg. N:435-13
3	Sulfur dioxide (SO <sub>2</sub> )	Makhvilauri 12+600km., adjacent territory 11:32	Did not turn out	Tech. Reg. N:435-13
4	Carbon oxide (CO)	Makhvilauri 12+600km., adjacent territory 11:32	Did not turn out	Tech. Reg. N:435-13
5	Dust (solid particles)	Makhvilauri 12+600km., adjacent territory 11:37	0.15	GOST P ISO 9096-06
6	Hydrocarbons group (CnHm)	Makhvilauri 12+600km., adjacent territory 11:32	Did not turn out	Tech. Reg. N:435-13

The result spreads only on the presented sample

Responsible performer specialist:

J. Tsetskhladze

Chief of the testing laboratory:

E. Antonishvili





აჭარის ავტონომიური რესპუბლიკის  
სოფლის მეურნეობის სამინისტრო,  
სსიპ ლაბორატორიული კვლევითი  
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აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)

Protocol of the Test N:4733

Date 05.09.2018

Identification code of sample - 64-224-1-02-18

Customer - Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia.

The subject of the research, address – The construction camp of the company, Industrial zone, Khelvachauri.

Date and time of sample entry in the laboratory - 04.09.18 12:55

Purpose of the research – Measurements of dust (solid particles), nitrogen dioxide, hydrogen sulfide, sulfur dioxide, hydrocarbons group, carbon oxide and relative humidity in atmospheric air.

Measurement result

N	Name of substance	Measurement area, measurement time	Measurement result (mg/m <sup>3</sup> )	Name of the Method
	1	2	3	4
1	Nitrogen dioxide (NO <sub>2</sub> )	Adjacent territory of the construction camp of the company (in the yard) 10:45	0.1	Tech. Reg. №435-13
2	Hydrogen sulfide (H <sub>2</sub> S)	Adjacent territory of the construction camp of the company (in the yard) 10:45	Did not turn out	Tech. Reg. №435-13
3	Sulfur dioxide (SO <sub>2</sub> )	Adjacent territory of the construction camp of the company (in the yard) 10:45	0.1	Tech. Reg. №435-13
4	Carbon oxide (CO)	Adjacent territory of the construction camp of the company (in the yard) 10:45	Did not turn out	Tech. Reg. №435-13
5	Dust (solid particles)	Adjacent territory of the construction camp of the company (in the yard) 10:50	0.20	GOST P ISO 9096-06
6	Hydrocarbons group (CnHm)	Adjacent territory of the construction camp of the company (in the yard) 10:45	0.02	Tech. Reg. №435-13

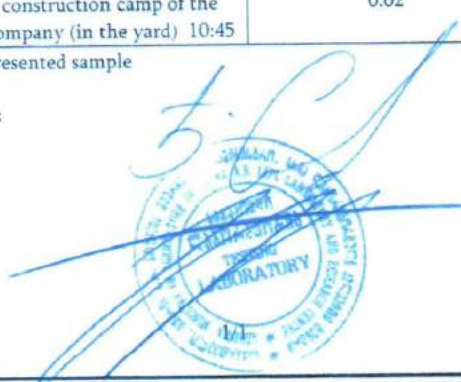
The result spreads only on the presented sample

Responsible performer specialist:

J. Tsetskhladze

Chief of the testing laboratory:

E. Antonishvili





<p>საქართველო. აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010.ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p>		<p style="text-align: center;"><b>GEORGIA</b> <b>MINISTRY OF AGRICULTURE</b> <b>OF THE AUTONOMOUS</b> <b>REPUBLIC OF ABKHAZETI</b> <b>LEPL LABORATORY RESEARCH</b> <b>CENTRE</b> <b>KVEDA SAMEBA. 6010 BATUMI</b> <b>GEORGIA</b> TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p>
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აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)

Protocol of the test №4732

Date 05.09.2018

Identification code of sample-64-223-3-02-18

Date of measurement-04.09.2018

Costumer-Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia. Opizars street №97, Khelvachauri.  
The probable source of noise-The company's residential camp and office area.

Purpose of the research-Determination of noise level.

Method of measurement (test)-GOST 23337-14

Measurement result

Place of measurement	Distance from the probable source	Time of measurement	Characteristic of noise				Maxumim level of sound LA. Maximum db A measurement Result
			Constant noise	Non-permanent noise			
				Fluctuate in time	Intermittent	Impulsive	
Adjacent territory of the camp and office (in the yard)	-----	10:22	-	+	+	-	51,8 db
The construction camp of the company. Industrial zone. khelvachauri.	-----	10:52	-	+	+	-	46,1 db
Makhvilauri. 12+600 km. adjacent territory	-----	11:15	-	+	+	-	71.4 db

Responsible performer specialist:

J. Tsetskhladze

Chief of the testing laboratory:

E. Antonishvili



აჭარის ავტონომიური რესპუბლიკის  
სოფლის მეურნეობის სამინისტრო.  
სსიპ ლაბორატორიული კვლევითი  
ცენტრი  
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აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21)

Protocol of the test N-4731

Date 05.09.2018

Identification code of sample - 64-222-1-02-18

Costumer - Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia.

The subject of the research, address – The company's residential camp and office area. Opizs street №97, Khelvachauri.

Date and time of sample entry in the laboratory - 04.09.18 12:55

Purpose of the research – Measurements of dust (solid particles), nitrogen dioxide, hydrogen sulfide, sulfur dioxide, hydrocarbons group, carbon oxide and relative humidity in atmospheric air.

Measurement result

N	Name of substance	Measurement area, measurement time	Measurement result (mg/m <sup>3</sup> )	Name of the Method
	1	2	3	4
1	Nitrogen dioxide (NO <sub>2</sub> )	Adjacent territory of the camp and office (in the yard) 10:15	0.1	Tech. Reg. №435-13
2	Hydrogen sulfide (H <sub>2</sub> S)	Adjacent territory of the camp and office (in the yard) 10:15	Did not turn out	Tech. Reg. №435-13
3	Sulfur dioxide (SO <sub>2</sub> )	Adjacent territory of the camp and office (in the yard) 10:15	Did not turn out	Tech. Reg. №435-13
4	Carbon oxide (CO)	Adjacent territory of the camp and office (in the yard) 10:15	Did not turn out	Tech. Reg. №435-13
5	Dust (solid particles)	Adjacent territory of the camp and office (in the yard) 10:20	0.25	GOST P ISO 9096-06
6	Hydrocarbons group (C <sub>n</sub> H <sub>m</sub> )	Adjacent territory of the camp and office (in the yard) 10:15	0.02	Tech. Reg. №435-13

The result spreads only on the presented sample

Responsible performer specialist:

J. Tsetskhladze

Chief of the testing laboratory:

E. Antonishvili



### Annex 3. Laboratory test for water

ქიმიურ-ბაქტერიოლოგიური ლაბორატორია

F.01


გამოცდის ოქმი № 280

- 20.08.2018 -  
 (ოქმის გაცემის თარიღი)



ნიმუშის დასახელება და რაოდენობა: --- ჭაბურღილის წყალი, 1 ლ.  
 ნიმუშის საიდენტიფიკაციო კოდი: --- 3R5-171-08  
 ნიმუშის აღების ადგილი, თარიღი და დრო: --- ქ. ბათუმი კახაბრის დასახლება, ჭაბურღილი  
 16.08.2018 13<sup>05</sup>  
 დამკვეთის სახელი გვარი და იურიდიული მისამართი: იჯაზ მაქუელი სს „ფოლათ იოლ იაფი  
 სანაი ვე თიჯარეთ“-ის ფილიალი საქართველოში ოპიზრების ქ. №97  
 ნიმუშის აღები პირი: --- მ. ხახუტაიშვილი  
 ანალიზის დაწყებისა და დამთავრების დრო: --- 16.08.2018 - 19.08.2018

№	გამოსაკვლევი მაჩვენებლები	საზომი ერთეული	ნორმატივი არა უმეტეს	მიღებული შედეგი	გამოცდის მეთოდი
1	წყალბადის მაჩვენებელი PH	-	6-9	7,34	ISO 10523:2008
2	სულფატები (SO <sub>4</sub> <sup>2-</sup> )	მგ/ლ	250	13	HACH Method 8051
3	ქლორიდები (Cl <sup>-</sup> )	მგ/ლ	250	4,33	გოსტი 4245-72
4	ნიტრატები (NO <sub>3</sub> <sup>-</sup> )	მგ/ლ	50	4,34	HACH LCK 339
5	სიხისტე	მგ-ექვ/ლ	7-10	4,29	გოსტი 4151-72
6	საერთო მინერალიზაცია (მშრალი ნაშთი)	მგ/ლ	1000-1500	388	გოსტი 18164-72
7	ჰიდროკარბონატები	მგ/ლ	30-400	280,6	გოსტი 31957-2012 (არაკრედიტირებული მეთოდი)

ლაბორატორიის უფროსი:  /ლ. კვუტია/



LDT "Batumi Tskali "

Batumi Takukashvili st 19

Tel 0422 24 22 22

Web.bats.ge

Chemical Bacterial Analysis for Water

Act for testing 280

Type of the sample: well water -1L

Code Of sample: 3R<sub>5</sub>-171-08

Place Data and time – Batumi Kaxaberi , Well- 16.08.2018 13<sup>05</sup>

Customer's Name and Surname and Address: Ijaz Maqbool / Opizrebi st 97

Sample was taken by M . Xaxutaishvili

Testing period -16.08.2018 19.08.2018

N		Measure	No more than	Result	Tested by
<b>Organoleptic index</b>					
1	Hydrogen indicator PH		6-9	7.34	Iso 10523:2008
2	Sulphates SO <sub>4</sub> <sup>2-</sup>	Mg/l	25 0	13	HACH METHOD 8051
3	Chlorides( Cl)	Mg/l	250	4.33	GOST 4245-72
4	Nitrates ( NO <sub>3</sub> )	Mg/l	50	4.3 4	HACH LCK 339
5	Stiffness	Mg/l	7- 10	4.29	GOST 4151-72
6	Mineralization	Mg/l	100 00- 150 0	388	GOST-18164-72
7	Hydro carbonate	Mg/l	30- 400	28 0.6	Gost 31957- 2012

#### Annex 4: List of aggrieved persons with nature and location of grievances

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
1	23.03.2017	Zaur	Tsenteradze	61004021830	593247734	C. Batumi II lane of Tamar Mefe N4	Correction of ownership of affected properties	He stated that during inventory of land plot border were incorrectly demarcated. As a result, 103 sq. m of Mr. Giorgi Chkhenkeli's land plot was identified as his property. He requests to correct the ownership and to give compensation to Mr. Giorgi Chkhenkeli	<b>Was sent to LTD "Geografic" for correction. In favour of AP.</b>	<b>Resolved</b>
2	24.03.2017	Gela	Chkhaidze	61007008711	558281152	Khelvachauri Region, Vil. Tsinsvla	Correction of ownership of affected properties	He stated that his land plot 1042 sq.m is affected by the Project. From this 223 sq. m belongs to his brother. He requests correction of ownership and to give compensation for 223 sq. m to his brother	<b>Was sent to LTD "Geografic" for correction. In favour of AP.</b>	<b>Resolved</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
3	28.03.2017	Emine	Gogiashvili	61006024828	558400233	C. Batumi, IV lane of F. Khalvashi St. N20, flat N1	Request of information	He wants explanation of the criteria according to which his property was assessed. He stated that he already talked to the Chairman G. Seturidze and requested meeting with the head of resettlement division M. Ujmajuridze	<b>The meeting was arranged. He accepted the compensation.</b>  <b>In favour of AP.</b>	<b>Resolved</b>
4	29.03.2017	Roin	Dumbadze	61006057911	557202805	Khelvachauri region, vil. Makhvilauri	Negotiations about mortgaged property	He stated that his affected property is mortgaged. He requests negotiations about receiving compensation so that to enable him to close mortgage.	<b>Statement was sent to RD for action. Agreement was signed.</b>  <b>In favour AP.</b>	<b>Resolved</b>
5	29.03.2017	Neli	Jortmendadze	61006038407	557606774	Khelvachauri region, vil. Tsinsvla	Request of information	She stated that land plot owned by her and her son is impacted. She wants information for submission to different state bodies	<b>Statement was sent to RD for action. Agreement was signed.</b>  <b>In favour of AP.</b> <b>Information.</b>	<b>Resolved</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
6	29.03.2017	Roman	Zoidze	37001011607	555538529	C. Batumi, IV lane of F. Khalvashi St. N20, flat N8	Request to be involved in distribution of compensation for common property	He is member of co-partnership "Mshenebeli". He requested involvement of the representative of RD in distribution of compensation for common property, such as: loft and land plot	<b>He was explained that issues connected with co-partnership should be solved by the members and relevant decision should be issued.  Information.</b>	<b>Resolved</b>
7	30.03.2017	Nunu	Dumbadze	61006025129	555418220	C. Batumi, F. Khalvashi St. N212	Request of information	Request of information about the time of transmission of compensation amount under contracts concluded on February 21, 2017 and March 1, 2017	<b>He was explained that payment process shall start from April.  Information</b>	<b>Resolved</b>
8	30.03.2017	Ramaz	Tsulukidze	61006009052	591970808	C. Batumi, Makhvilauri St. N5	Negotiations about mortgaged property	He stated that his affected property is mortgaged. He requests negotiations about receiving compensation so that to enable him to close mortgage.	<b>Statement was sent to RD for action. Agreement was signed.  In favour of AP.</b>	<b>Resolved</b>



SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
9	31.03.2017	Irakli	Bolkvadze	61001006526	595911034	Khelvachauri region, vil. Qveda Sameba	Submission of letter	Due to absence Georgian Post failed to hand over letter to Mrs. Leila Bolkvadze. He received letter which is reply to the letter of Mrs. Leila Bolkvadze's N03/01.	<b>Copy of the document (3 pages) was handed over to him.</b>  <b>Infomration</b>	<b>Resolved</b>
10	04.04.2017	Liana	Gogiashvili	61006038377	C. Batumi, F. Khalvashi St. N212		Request of information	He requested information on the following: 1. When the issue of lofts will be solved? 2. Issues connected with co-partnership 3. Allocation of additional sums.	<b>Telephone conversation with the head of resettlement division of RD was organized.</b> <b>Information</b>	<b>Resolved</b>
11	04.04.2017	Emzar	Akhvlediani	61007001733	555353767	Batumi, Borough Makhinjauri	Request of additional compensation	He does not agree with the compensation amount and requests 1000 GEL per sq.m.  (Verbal complaint)	<b>He was expropriated.</b>	<b>Resolved</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
1 2	05.04.2017	Irakli	Jaliashvili	60001021831	593209474	Batumi, Opizrebi St. N15	Request of additional compensation	He does not agree with the compensation amount. Requests additional compensation to buy same area at the territory of Batumi	<b>Statement was sent to RD for action.</b>  <b>Finally, the Contract was signed. He accepted the compensation</b>	<b>Resolved</b>
1 3	07.04.2017	Haidar	Chijavadze	61007003938	568754974	Makhinjauri	Potential hazard to residential house	He stated that near to residential house project tunnel will be constructed. Tunnel excavation requires blasting that puts in danger residential house.	<b>Statement was sent to RD for action.</b>  <b>It will be under supervision.</b>	<b>Open</b>
1 4	07.04.2017	Teimuraz	Tsintsadze	61007002244	568423459	Makhinjauri	Potential hazard to residential house	He stated that near to residential house project tunnel will be constructed, that puts in danger residential house.	<b>Statement was sent to RD for action.</b>  <b>It will be under supervision.</b>	<b>Open</b>
1 5	10.04.2017	Nani	Shainidze	61009027833	Batumi, Rurua St. N2b	Khelvachauri, Aghmashenebeli St. 16b	Request to stop acquisition	Nani Shainidze is daughter of Mr. Zurab Shainidze and is his authorized representative. She requested to stop acquisition of	<b>She was verbally explained that acquisition of real estate owned by co-partnership can be done only based on relevant decision (minutes</b>	<b>Resolved</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
								land plot owned by co-partnership "Otsneba"	<b>of meeting) signed by each member of co-partnership</b>	
1 6	11.04.2017	Gela	Goradze	61006026006	557496596	Batumi, Opizrebi St. 59, flat N28- 28a	Request of information	He requested information about area of his flat and relevantly compensation rate per sq. m	<b>Telephone conversation with the representative of Geographic LTD was arranged during which he was given detailed information about sq. m and compensation rate per sq. m. He was also explained procedures how he can invite alternative audit.</b>  <b>Acquired. Agreement was signed on 17.05.2017</b>	<b>Resolved</b>
1 7	11.04.2017	Lamara	Ebraldze	61006028661	Batumi, IV lane of F. Khalvashi St. N20	Batumi, IV lane of F. Khalvashi St. N20	Request of information	She is authorized representative of Teona Ebraldze. She wants to sent statement to RD for requesting information about	<b>She was explained where to submit statement. Photo copy of the statement is also kept in GRM.</b>	<b>Resolved</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
								compensation rate per sq. m of her property.	<b>Acquired.</b>	
18	13.04.2017	Ruslan	Dumbadze	61007001650	579196131	Batumi, vil. Salabauri	Correction of ownership of affected properties	He stated that during inventory of land plot border were incorrectly demarcated. As a result 16 sq.m of Mr. Niaz Chanidze land plot was identified as his property. He requires correction of ownership.	<b>Was sent to LTD "Geografic" for correction</b>	<b>Resolved</b>
19	24.04.2017	Nodar	Tamazashvili	61001000283	577424455 0422274455	Makhinjauri, III lane of Tamar Mefe St.	Providing information	As an authorized person of Mrs. Leila Abashidze, he provided information about territory of his residential house (enclosure 12 pages).	<b>Statement was sent to RD for action.</b>  <b>Agreement was signed.</b>	<b>Resolved</b>
20	24.04.2017	Tsira	Ivanadze	61006046197	593252115	Batumi, F. Khalvashi St. N224, flat N5	Re-measurement /re-assessment of property	He does not agree with previous measurement. Requests re-measurement	<b>Re-measurement was conducted. Agreement was signed.</b>	<b>Resolved</b>
21	28.04.2017	Nodar	Sakandelidze	61006027006	558197220	Batumi vil. Feria	Inclusion in affected list	He verbally requested new commission. Under his	<b>Re-measurement was done. Due to design changes acquisition of his</b>	<b>Resolved</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
								residential land plot project tunnel will be constructed. He requests assessment and acquisition land plot and house.	<b>land plot will not be necessary.</b>	
2 2	03.05.2017	Marad	Gorgadze	28001090708	599401302	Batumi, Opizrebi St. N59, flat N10	Request of information	He requested information about compensation amount for his property. After getting information he expressed dissatisfaction	<b>He was explained what procedures he can follow to request recalculation of compensation.</b>	<b>Resolved</b>
2 3	05.05.2017	Irine	Mamuladze	61006025655	Batumi, lane of F. Khalvashi St.	Batumi, lane of F. Khalvashi St.	Negotiations about mortgaged property	She stated that her affected property is mortgaged. She requests negotiations about receiving compensation so that to enable her to close mortgage.	<b>Statement was sent to RD for action. Agreement was signed</b>	<b>Resolved</b>
2 4	08.05.2017	Tsitsino	Gatenadze	61002003621	593728885	Makhinjauri	Negotiations about mortgaged property	She stated that her affected property is mortgaged. She requests negotiations about receiving compensation so	<b>Statement was sent to RD for action. Agreement was signed</b>	<b>Resolved</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
								that to enable her to close mortgage.		
25	15.05.2017	Maia	Tsintsadze	61008011684	577137374	Batumi, vil. Feria	Correction of ownership of affected properties	She stated that she has co-owners of her property. She requires payment of compensation to all co-owners.	<b>Statement was sent to RD for action. Agreement was signed</b>	<b>Resolved</b>
26	15.05.2017	Nargiz	Abashidze		557601266	Batumi	Re-measurement /re-assessment of property	She stated that during inventory of land plot border her son wrongly indicated borders. She requests re-measurement.	<b>Statement was sent to LTD "Geografic" for correction. Agreement was signed</b>	<b>Resolved</b>
27	15.05.2017	Roin	Kontselidze	61006017540	599575344	Batumi, vil. Makhvilauri	Correction of ownership of affected properties	He stated that 603 sq. m of land plot 353 belongs to Fati Kontselidze	<b>Statement was sent to LTD "Geografic" for correction. Agreement was signed.</b>	<b>Resolved</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
28	15.05.2017	Fati	Kontselidze	61006036881		Batumi	Re-measurement /re-assessment of property	She stated that during inventory of land plot plants were not counted. She requests inventory and assessment of plants.	<b>Statement was sent to LTD “Geografic” for action.</b>  <b>Agreement was signed</b>	<b>Resolved</b>
29	15.05.2017	Levan	Mukutadze			Batumi	Request of information	He stated that during inventory mistake was made and 678 sq. m of his land plot belongs to Tamaz Dumbadze	<b>Statement was sent to LTD “Geografic” for action.</b>  <b>Agreement was signed</b>	<b>Resolved</b>
30	23.05.2017	Davit	Beridze	61007502935	557585801	Batumi, borough Makhinjauri	Re-measurement /re-assessment of property	He stated that he was not attending inventory and assessment of his land plot and house. He requests re-measurement and re-assessment	<b>Statement was sent to LTD “Geografic” for action.</b>  <b>Case was sent to court for expropriation.</b>	<b>Open</b>
31	24.05.2017	Nona	Chkhaidze	61006053056	558722714	Batumi	Negotiations about mortgaged property	She stated that her affected property is mortgaged. She requests negotiations about receiving compensation so that to enable her to close mortgage.	<b>Statement was sent to RD for action. Agreement was signed</b>	<b>Resolved</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
3 1 <sup>1</sup>	24.05.2017	Davit	Samnidze	61006011838	555321092	Batumi, F. Khalvashi St. 234-238	Re- measurement /re- assessment of property	He stated that his property was not fully inventoried and assessed. On May 22 meeting was arranged between Davit Samnidze, Project Coordinator of ADB – Archil Jorbenadze, Consultant of ADB – Medgar Chelidze and representative of Geographic, Ltd. At place comparison of Mr. Samnidze's property with the preliminary inventory and assessment was done.	<b>The doubt of Mr. Samnidze was not confirmed.</b>  <b>By investigation it was assumed that Mr. Samnidze's property is fully inventoried and assessed.</b>	<b>Resolved</b>
3 2	25.05.2017	Resan	Kvirikadze	61001001211	Batumi, Pushkini St. N3 599191485	Batumi	Recalculation of compensation	We informed him about compensation amount for his property. He does not agree with the compensation amount and requires assessment of property by market rate.	<b>He was explained what legal steps he can take to solve this issue.</b>  <b>Agreement was signed</b>	<b>Resolved</b>



SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
33	30.05.2017	Revaz	Nijaradze	61006005604	593656538	Khelvachauri	Inclusion in affected list	He stated that 237 sq. m of the total area 351 sq. m is under acquisition. He requests acquisition of the remaining portion of land plot.	<b>Statement was sent to RD for action.</b>  <b>Agreement was signed</b>	<b>Resolved</b>
34	27.06.2017	Maia	Dumbadze	61005002358	599377123	Khelvachauri, vil. Gantiadi	Submission of letter	She provided reply letter of Mr. Avtandil Makharadze to the Chairman of RD Al. Tevdoradze. He verbally explained that copy of letter is sent to RD.	<b>The letter was received.</b>	<b>Resolved</b>
35	28.06.2017	Indira	Safaridze	610060070419	599379850	Batumi	Correction of ownership of affected properties	Requested division of his land plot and separate payment.	<b>Statement was sent to RD for action.</b>  <b>Agreement was signed</b>	<b>Resolved</b>
36	01.09.2017	Nodar	Kvirikadze	61006047118	577534427	Batumi	Inclusion in affected list	He requested acquisition of his residential house as it appeared close to the project road.	<b>Statement was sent to RD for action.</b>	<b>Open</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
3 7	19.09.2017	Irakli	Jaliashvili	61001021831	593209474	C. Batumi, Opizrebi St. N5	Recalculation of compensation	He was not satisfied with compensation amount and was requesting additional amount.	<b>He was given inventory of his property with compensation rates.  Agreement was signed</b>	<b>Resolved</b>
3 8	29.09.2017	Miranda	Nakashidze	61006077460	593030701	I lane of Hortenzia St. N5	Request of information	Two letters of Mrs. Miranda Nakashidze was received. Both letters are written to the Chairman of RD. She is requesting assessment criteria of her property.	<b>Statement was sent to RD for action.  The case was sent to court for expropriation.  Negotiations are on-going.</b>	<b>Open</b>
3 9	06.10.2017	Roman	Meskhidze		Batumi, vil. Gantiadi	Batumi	Correction of ownership of affected properties	He stated that Giuli Mkheidze is using part of his land plot as land user.	<b>We explained that there is no border and none of the citizens can indicate the border on electronic map. We recommended him to prepare drawing and send statement to RD.</b>	<b>Resolved</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
4 0	17.10.2017	Davit	Gurgenidze	6100006069	Batumi, F. Khalvashi St. N37	Batumi	Inclusion in affected list	He is requesting compensation for business as the land plot acquired by RD from the owner was rented by him for business purposes.	<b>He received relevant compensation.</b>	<b>Resolved</b>
4 1	27.10.2017	Davit	Beridze	61007007369	557217811	Makhinjauri	Re- measurement /re- assessment of property	He stated that 2500 sq. m of his property was affected by the project. He received compensation only for 555 sq. m. He requests invitation of commission for re-measuring the land plot.	<b>Statement was sent to LTD “Geografic” for action.</b>  <b>His case is sent to Court for expropriation</b>	<b>Open</b>
4 2	08.02.2018	Madlena	Jjavadze	61007006993	558994749	Batumi Krasnovi St. N7	Inclusion in affected list	He is requesting acquisition of his land plot and real estate. Meeting was conducted with the presence of Director of Road Department of A. R. Adjara.	<b>We verbally clarified the criteria of acquisition and the scope of road corridor. We explained why his property was not included in acquisition list.</b>  <b>Not acquired.</b>	<b>Resolved</b> .

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
4 3	13.02.2018	Manvelita	Bzেকnava	61003003461	First Street of Tsinvla N32, Khelvachauri  558444420	First Street of Tsinvla N32, Khelvachauri	Inclusion in affected list	She is the daughter in law of Valiko Jorbenadze. She is requesting to identify distance between RoW and her house. She requests acquisition.	<b>The information was sent to RD and Supervising Team for studying.</b>  <b>She was explained that construction works will not affect her property.</b>	<b>Resolved</b> .
4 4	25.05.2018	Irma	Shatirishvili	33001077202	551002380  Muskhelishvili St. N20, Batumi	km12 of Project road	Inclusion in affected list	Due to construction activities the family is disturbed by excess air pollution (emission, dust) and noise. They request acquisition of the property,	<b>The information was sent to RD requesting the commission to study the case. May 30, 2018</b>  <b>Commission instructed to conduct monitoring environmental parameters nearby the house. August 8, 2018</b>  <b>Monitoring data was sent to RD and final decision is awaited. Dec. 6, 2018.</b>	<b>Open</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
									The house will be acquired.	
4 5	05.03.2018	Vakhtang	Surmanidze	19001049141	Batumi, Makhvilauri	km11-km12	Inclusion in affected list	Due to close location to RoW, his living conditions will worsen during construction as well as commissioning of Project road. He requests acquisition of the property,	<b>The information was sent to RD requesting the commission to study the case. June 18, 2018</b>  <b>The house will be acquired.</b>	<b>Open</b>
4 6	05.03.2018	Aslan	Abashidze	61009003292	Muskhelishvili St. N31, Batumi ri	km11-km12	Inclusion in affected list	Due to close location to RoW, his living conditions will worsen during construction as well as commissioning of Project road. He requests acquisition of the property.	<b>The information was sent to RD requesting the commission to study the case. June 18, 2018</b>	<b>Denied</b>  <b>Sept. 28, 2018</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
47	05.03.2018	Manana	Abashidze	882016556285	Batumi, Makhvilauri	km11-km12	Inclusion in affected list	Due to close location to RoW, his living conditions will worsen during construction as well as commissioning of Project road. He requests acquisition of the property.	<b>The information was sent to RD requesting the commission to study the case. June 18, 2018</b>  <b>The house will be acquired.</b>	
48	31.07.2018	Irakli	Chogadze	61006015403	N214 F. Khalvashi St, Batumi  577428230	km13+040	Inclusion in affected list	Houses are being demolished around him. He is disturbed by dust and dirt in his yard. Moreover, water supply to his house is stopped. He requires acquisition. During studying the case Engineer observed that on-going demolition activities was conducted by the neighbours of Mr. Chogadze and did not have any connection with construction activities as the mentioned section	<b>The information was sent to RD requesting the commission to study the case. July 31, 2018</b>	<b>Open</b>



SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
								is not handed over to the Contractor yet. Moreover, the house is located at the adjacent of interchange with distance 10-14m from RoW. Considering negative impact of construction works Engineer sent this case with relevant documents for further decision.		
4 9	11.08.2018	Zviad	Jakeli	61007001123	Borough Makhinjauri, Aghmashenebel i St. N24 577781939	Km2+100	Inclusion in affected list	Construction activities are on-going nearby his house. As a result, he is facing landslide hazard. Moreover, he is concerned by vibration caused as a result of movement of heavy equipment.	<b>During studying the issue, it was revealed that the mentioned problems are not caused by construction of Batumi bypass road.</b>  <b>As the house is located close to RoW with the distance 14-27m relevant documents were prepared and sent to RD, requesting the commission to study the case.</b>	<b>Open</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
									August 22, 2018	
50	20.08.2018	Tamaz	Kirkitadze	61001064519	Batumi, Nijaradze lane N22	Km7+460	Inclusion in affected list	As his house is located close to RoW, his family members and residential house are affected by construction activities. Moreover, he will not have access to his house because of Project activities.	<b>During studying it was observed that access road to his house will remain and flow under the Project bridge. However, still as the house is located close to RoW with distance 12-20m from RoW, relevant documents were prepared and sent to RD requesting the commission to study the case. Sept. 5, 2018</b>	<b>Open</b>
51	25.08.2018	Gela Madlena	Jijavadze	61007006791 61007006993	Borough Makhinjauri, Krasnovi St. N7  558994749	Km0+520	Inclusion in affected list	The house from the North is bordered by existing Kobuleti-Batumi road, while from another side (east) construction works of Batumi bypass road is	<b>After measurement it was assumed that both roads are in the distance of approximately 30m from the residential house.</b>	<b>Open</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
								planned. She requires acquisition.	<b>Relevant documents were prepared and sent to RD requesting the commission to study the case. Sept. 5, 2018</b>	
52	10.09.2018	Mamud	Makhachadze	61006009336	Vil. Mnatobi Khelvachauri Municipality	Km8+820	Inclusion in affected list	His residential house and land plot were acquired in the scope of the Project from which he had access to his remaining land plot. Due to not having access the land plot becomes unviable for him. He requires acquisition.	<p><b>Engineer studied the issue at place. It was observed that construction of access to the plot is impossible due to complex relief and private property surrounding the land plot.</b></p> <p><b>Case was sent to RD requesting commission to study it. Sept. 11, 2018</b></p> <p><b>By additional study some alternatives for road construction were revealed and RD assigned the Consultant to prepare drawing. Nov. 19, 2018</b></p>	Open

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
									The Contractor was instructed to provide detailed design with cost estimation Nov. 26, 2018	
53	19.09.2018	Roin	Beridze	610006040261	N196b Bagrationi St., Batumi	Km11+200 P19 of BR-11	Compensation for destroyed land plot/Inclusion in affected list	During construction activities the Contractor violated borders of RoW and destroyed his private property. Due to it whole land plot became unviable for him. Moreover, after construction of Bridge, he thinks that he will not have access to his land plot.	<b>He was explained that construction of access road to his land plot is possible and will be considered during construction works. As for the damage the Contractor takes the responsibility to compensate it. Leasing Agreement was prepared and duly signed.</b>	Open
54	27.09.2018	Nodar	Beridze	61001000493	N4 Tsereteli St., Batumi	Km6+500, Tunnel N3, Shaft N2	Inclusion in affected list	Exit of shaft N2 of Tunnel N3 is in his land plot. He requests acquisition.	<b>The case with all supporting documents were sent to RD requesting the commission to study it. Oct. 19, 2018</b>	Open

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
5 5	01.10.2018	Vakhtang	Mukutadze	61007002924	Vil. Gantiadi	Km4+180	Inclusion in affected list	His residential house and land plot were acquired in the scope of the Project from which he had access to his remaining land plot. He requests construction of access road or acquisition of land plot	<p><b>Engineer studied the case and observed that construction of access road to the house is impossible. The case was sent to RD requesting the commission to study it. Oct. 19, 2018.</b></p> <p><b>By additional study some alternatives for road construction were revealed and RD assigned the Consultant to prepare drawing. Nov. 19, 2018</b></p> <p><b>The Contractor was instructed to provide detailed design with cost estimation Nov. 22, 2018.</b></p>	<b>Open</b>

SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
56	01.10.2018	Suliko Tamila	Khalvashi	61007006557	House N5, Tamar Mefe lane N3, Batumi	Km2+280	Inclusion in affected list	Suliko Khalvashi acting on behalf of Tamila Khalvashi requesting construction of access road to his land plot. In case construction of access road is impossible he requires acquisition.	<b>By visual inspection Engineer assumed that construction of access road is possible. The case will be processed during construction activities.</b>	<b>Open</b>
57	05.11.2018	Satenik Albert	Kurdogliani	61007006436	Salibauri, house N4  555754758 557003732	Km5+520	Inclusion in affected list	During construction activities the Contractor cut trees in his land plot. The land plot is not acquired and is location within RoW which was handed over to the Contractor on Oct. 5, 2018	<b>Contractor's and Consultant's representatives together with AP counted the trees and concluded relevant act which was sent to RD together with measurement drawing.</b>	<b>Open</b>
58	20.12.2018	Giorgi	Dumbadze	61006050325	C. Batumi, Makhvilauri Settlement N89	Tunnel N5	Possible damage of residential structure	Vibration as a result of blasting caused development cracks in his house	<b>Contractor was instructed to conduct vibration monitoring.</b>	<b>Open</b>



SI No/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
59	24.12.2018	Tengiz	Kondaridze		Vil. Salibauri 577242877	Km5+440	Inclusion in affected list	During construction activities the Contractor cut trees in his land plot. The land plot is not acquired and is location within RoW which was handed over to the Contractor on Oct. 5, 2018	<b>Contractor's and Consultant's representatives together with AP counted the trees. Measurement drawing is being prepared.</b>	<b>Open</b>
60	16.01.2019	Tamaz	Chkhikvadze	61006018121	C. Batumi, Makhvillauri St. N71 599269488	Adjacent of tunnel N5	Possible damage of residential structure	Vibration as a result of blasting caused development cracks in his house	<b>Contractor was instructed to conduct vibration monitoring.</b>	<b>Open</b>
61	17.01.2019	Natela	Veliadze	61009022316	C. Batumi, Muskhelishvili St N24a  598094774	Km12+600	Possible damage of residential structure	Movement of construction equipment caused development of cracks in her house. She is also disturbed by noise caused by construction activities.	<b>The vibration of the movement of heavy equipment cannot cause any damage to the houses as they are 65-70m away from the RoW. Currently, Contractor is only implementing stone column construction activities for improvement soft soil.</b>	<b>Open</b>

SI N o/	Date of Grievance	Aggrieved Persons		National ID Number	Address / Contact No.	Location of Grievance	Nature of grievances	Description	Measures Taken	Remarks
		Name	Surname							
									Vibration will be monitored during construction of embankment.	

## Annex 5. Vibration monitoring data and devices

## Calibration Certificate

Part Number: 721A0201  
Description: MicroMate Linear Mic (2-250Hz)

Serial Number: UL3245  
Calibration Date: FEB 28 2018  
Calibration Equipment: 714J7401


*Instantel certifies that the above product was calibrated in accordance with the applicable Instantel procedures. These procedures are part of a quality system that is designed to assure that the product listed above meets or exceeds Instantel specifications.*

*Instantel further certifies that the measurement instruments used during the calibration of this product are traceable to the National Institute of Standards and Technology; or National Research Council of Canada. Evidence of traceability is on file at Instantel and is available upon request.*

*The environment in which this product was calibrated is maintained within the operating specifications of the instrument.*

*Please note that the sensor check function is intended to check that the sensors are connected to the unit, installed in the proper orientation and sufficiently level to operate properly. This function should not be confused with a formal calibration, which requires the sensors be checked against a reference that is traceable to a known standard. Instantel recommends that products be returned to Instantel or an authorized service and calibration facility for annual calibration.*

Calibrated By: \_\_\_\_\_

  
Ninh Nguyen

Instantel

 Instantel®



## Calibration Certificate

Part Number: 721A2501  
Description: Micromate ISEE Base Unit


Serial Number: UM13228  
Calibration Date: FEB 28 2018  
Calibration Equipment: 714J7403

*Instantel certifies that the above product was calibrated in accordance with the applicable Instantel procedures. These procedures are part of a quality system that is designed to assure that the product listed above meets or exceeds Instantel specifications.*

*Instantel further certifies that the measurement instruments used during the calibration of this product are traceable to the National Institute of Standards and Technology; or National Research Council of Canada. Evidence of traceability is on file at Instantel and is available upon request.*

*The environment in which this product was calibrated is maintained within the operating specifications of the instrument.*

*Please note that the sensor check function is intended to check that the sensors are connected to the unit, installed in the proper orientation and sufficiently level to operate properly. This function should not be confused with a formal calibration, which requires the sensors be checked against a reference that is traceable to a known standard. Instantel recommends that products be returned to Instantel or an authorized service and calibration facility for annual calibration.*

Calibrated By:   
Xiaoming Yang

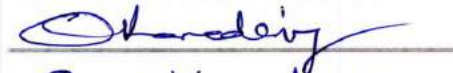
 **Instantel**

SEISMOGRAPH OPERATOR'S REPORT

Client Polatpol & Mapa Joint Venture  
Project Batumi Bypass Road  
Date 17-01-2019 Time of Blast 12.17 Blast Number 2  
Seismograph Make & Model Instantel Micromak Serial Number UM 13228  
Trigger Source Tunnel Blasting Trigger Level 85.60  
Range Selected \_\_\_\_\_ Record Duration \_\_\_\_\_  
Sensor Test Results (at set-up) Passed  
Geophone Location KM 9+960  
Witnesses (if any) Dimitri Gvantseladze  
Additional Comments In order to monitor the ground vibration generated from blast, seismograph was installed at Mr. Dumbadze's yard.

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:



Omur Karadeniz  
(printed name)  
ORICA-NITRO EXPLOSIVES  
(company) MANUFACTURING CO.



**Date/Time** Vert at 18:12:17 January 17, 2019  
**Trigger Source** Geo: 0.300 mm/s, Mic: 33.00 dB(A)  
**Range** Geo: 254.0 mm/s  
**Record Time** 4.125 sec (Auto=1Sec) at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory1.MMB

**Serial Number** UM13228 V 10-88 Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** February 28, 2018 by InstanTel  
 N/A  
**File Name** UM13228\_20190117181217.IDFW

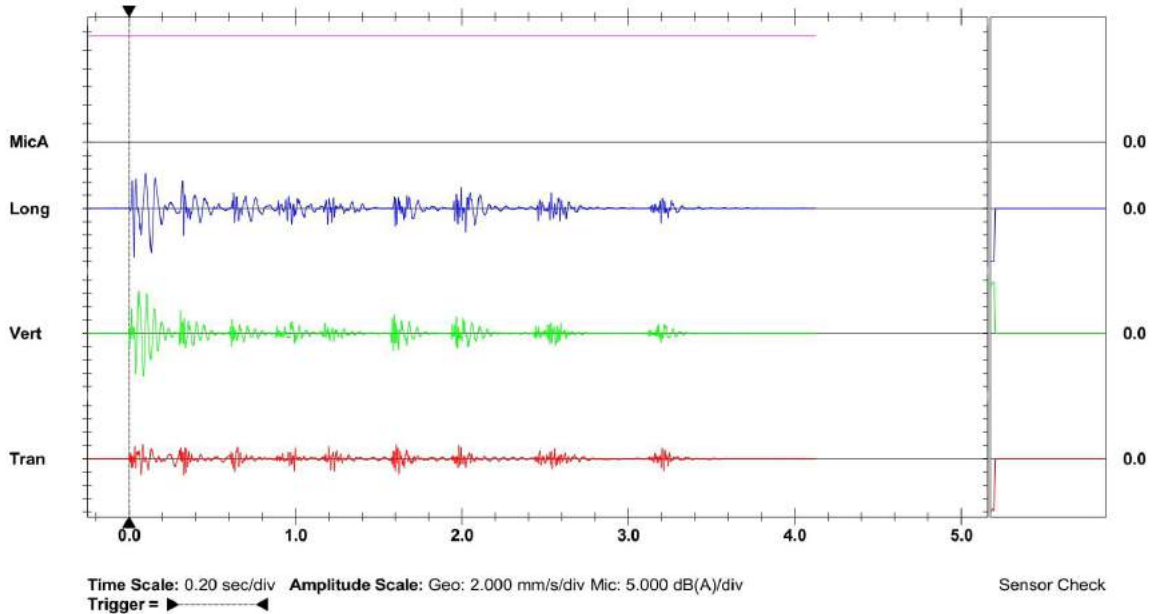
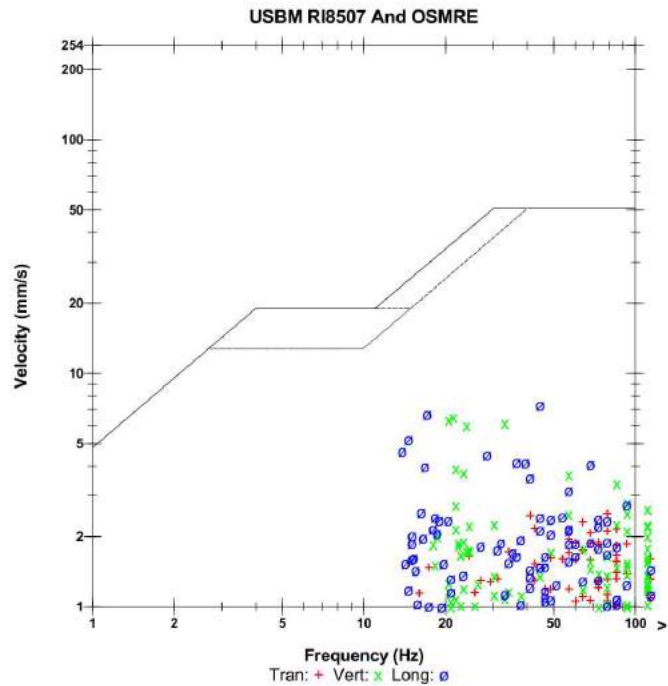
**Notes**

Location:  
 Client:  
 User Name:  
 General:

**Microphone** 'A' Weight - Slow  
**LMax** <30 dB(A) at -0.250 sec  
**Sound (dB)** LMin <30 L10 <30 L90 <30 Leq <30  
**Channel Test** Check ( Amp = 3826 mv )

	Tran	Vert	Long	
PPV	2.506	6.510	7.306	mm/s
ZC Freq	79	21	45	Hz
Time (Rel. to Trig)	0.329	0.087	0.031	sec
Peak Acceleration	0.135	0.186	0.225	g
Peak Displacement	0.011	0.046	0.057	mm
<b>Sensor Check</b>	Passed	Passed	Passed	
Frequency	7.1	7.5	6.9	Hz
Overswing Ratio	4.6	4.5	5.0	

**Peak Vector Sum** 7.713 mm/s at 0.133 sec



	<b>Project Batumi Bypass Road</b> <b>Section km-1+000—km- 13+325</b>	
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TUNNEL 5 EXIT BLASTING REPORT		
Blasting for tunnel progression		
<b>GENERAL</b>		
Blast Date	17-01-19	Time : 12:17 p.m
Portal	North	South
Tunnel	North	South <b>X</b>
Rock Mass Class		
<b>TUNNEL FACE BLASTING</b>		
	KM: 10+040	
BLASTING AREA	64	m <sup>2</sup>
LENGTH		mm
WIDTH	13000	mm
DEPTH	1.5	m
<b>DRILLING EQUIPMENT</b>		
TYPE OF MACHINE	Atlas Copco jumbo	
DRILL STEEL LENGTH	4.3	m.
MAX HOLE LENGTH	4	m
NUMBER OF BOOMS	2	no
<b>DRILLING DATA</b>		
HOLE DIAMETER	45	mm
CUT TYPE	<b>V - CUT</b>	
LARGE HOLE	45	mm
NUMBER OF HOLES	81	no
HOLE LENGTH	1500	mm
DRILLED METERS	121.5	drm
ADVANCE	—	mm
PULL LENGTH	—	%
ROCK VOLUME PER ROUND	96	m <sup>3</sup>
SPECIFIC DRILLING	1.26	drm/m <sup>3</sup>
<b>DRILLING TIME</b>		
TYPE OF ROCK	TUFF BRECCIA	
PENETRATION	2.5	m/min
DRILLING RATE	2.33	m/min
REAMING PENETRATION	0	m/min
REAMING TIME	0	min
DRILLING TIME	56	min
SETUP+DISMOUNT+REMOVE	62	min
DRILLING CYCLE	200	min
<b>CHARGING TIME</b>		
CHARGE TOTAL	92	kg
SPECIFIC CHARGE	0.96	kg/m <sup>3</sup>
CHARGING CREW	3	men
SETUP TIME	40	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	60	min/round
<b>BLASTING PATTERN</b>		
Attached	Date: 17.01.2019	

PREPARED BY :Hamit Ismailoglu  
DATE : 17-01-2019

SEISMOGRAPH OPERATOR'S REPORT

Client Polatyor & Mapa Joint Venture  
Project Batumi Bypass Road  
Date 16.01.2019 Time of Blast 11.23 a.m Blast Number S 5  
Seismograph Make & Model Instantel, Micromate Serial Number UM 13228  
Trigger Source Geo: 0,500 mm/s Trigger Level 88,50  
Range Selected Geo: 254 mm/s Record Duration 1,994 sec at 1024 sps.  
Sensor Test Results (at set-up) passed  
Geophone Location Red House, distance to blasting area: 165 m.  
Witnesses (if any) \_\_\_\_\_  
Additional Comments Seismograph was installed at predetermined  
distance from the blast site, at distance  
of 165 m.. Blasting location at KM 10+220

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:



Omur Karadeniz

(printed name)

ORICA-NITRO EXPLOSIVES

(company)

MANUFACTURING CO.

opey 1.2



### Event Report

**Date/Time** Vert at 11:23:06 January 16, 2019  
**Trigger Source** Geo: 0.500 mm/s  
**Range** Geo: 254.0 mm/s  
**Record Time** 1.994 sec (Auto=1Sec) at 1024 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory1.MMB

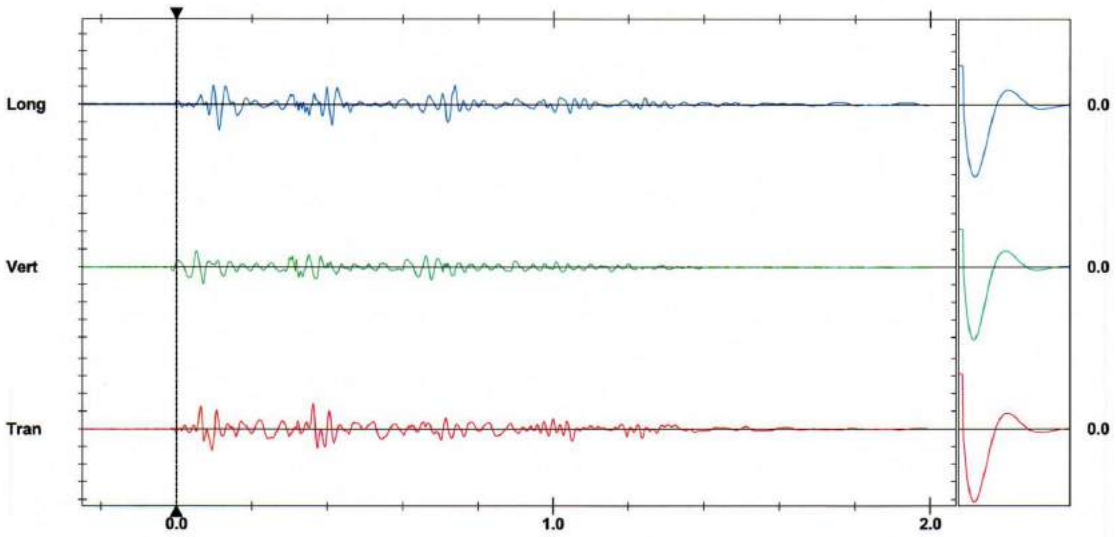
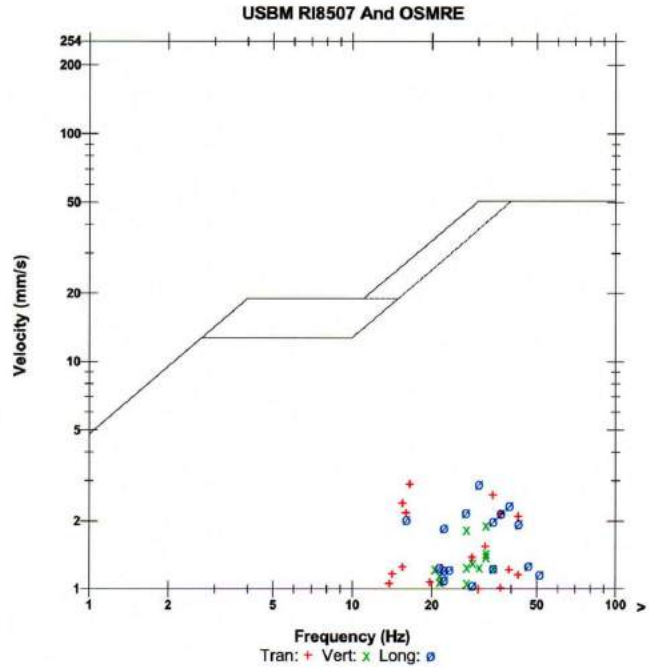
**Serial Number** UM13228 V 10-88 Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** February 28, 2018 by Instantel  
**File Name** \_\_TEMP.EVT

**Notes**

Location:  
 Client:  
 User Name:  
 General:

	Tran	Vert	Long	
PPV	2.901	1.923	2.908	mm/s
ZC Freq	17	32	30	Hz
Time (Rel. to Trig)	0.363	0.071	0.113	sec
Peak Acceleration	0.085	0.078	0.063	g
Peak Displacement	0.019	0.010	0.014	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.5	6.9	Hz
Overswing Ratio	4.6	4.4	5.0	

Peak Vector Sum 3.225 mm/s at 0.363 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div  
 Trigger = >

Sensor Check



**Project Batumi Bypass Road  
Section km-1+000—km- 13+325**



<b>TUNNEL 5 EXIT SLOPE PROTECTION, BLASTING REPORT</b>		
Blasting for slope protection		
<b>GENERAL</b>		
Blast Date	16/01/2019	Time : 11.23 am
Portal	North <input type="checkbox"/>	South <input checked="" type="checkbox"/>
Tube	North <input type="checkbox"/>	South <input type="checkbox"/>
Rock Mass Class		
<b>PORTAL SLOPE BLASTING</b>		
	10+220	
BLASTING AREA	48	m <sup>2</sup>
LENGTH	6000	mm
WIDTH	8000	mm
DEPTH	4.5	m
<b>DRILLING EQUIPMENT</b>		
TYPE OF MACHINE	Atlas Copco	
DRILL STEEL LENGTH	6	m.
MAX HOLE LENGTH	4.5	m
NUMBER OF BOOMS	1	no
<b>DRILLING DATA</b>		
HOLE DIAMETER	89	mm
CUT TYPE	V - CUT	
LARGE HOLE	89	mm
NUMBER OF HOLES	27	no
HOLE LENGTH	4500	mm
DRILLED METERS	121	dm
ADVANCE		mm
PULL LENGTH		%
ROCK VOLUME PER ROUND	300	m <sup>3</sup>
SPECIFIC DRILLING	1.27	dm/m <sup>3</sup>
<b>DRILLING TIME</b>		
TYPE OF ROCK	TUFF BRECCIA	
PENETRATION	2.5	m/min
DRILLING RATE	2.33	m/min
REAMING PENETRATION	0	m/min
REAMING TIME	0	min
DRILLING TIME	56	min
SETUP+DISMOUNT+REMOVE	62	min
DRILLING CYCLE	200	min
<b>CHARGING TIME</b>		
CHARGE TOTAL	165	kg
SPECIFIC CHARGE	1.8	kg/m <sup>3</sup>
CHARGING CREW	3	men
SETUP TIME	40	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	60	min/round
<b>BLASTING PATTERN</b>		
Attached	Date: 16.01.2019	

NAME :Hamit Ismailoglu  
DATE : 16-01-2019

SIGNATURE : Hamit Ismailoglu



SEISMOGRAPH OPERATOR'S REPORT

Client Polatyol & Mapa Joint Venture  
Project Batumi Bypass Road  
Date 16.01.2019 Time of Blast 15.22 p.m. Blast Number S2  
Seismograph Make & Model INSTANTEL, Micromate Serial Number UM13228  
Trigger Source Geo: 0,500 mm/s Trigger Level 88,90  
Range Selected Geo: 254 mm/s Record Duration 2,411 sec. at 1024 sps  
Sensor Test Results (at set-up) Passed  
Geophone Location S2, 110 meters away from blasting area.  
Witnesses (if any) \_\_\_\_\_  
Additional Comments Sismograph was installed at predetermined distance from blasting area (KM 10+200)

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:



Omur Karadeniz  
(printed name)

ORICA-NITRO EXPLOSIVES  
(company) MANUFACTURING CO.



open 1.3



### Event Report

**Date/Time** Vert at 15:22:51 January 16, 2019  
**Trigger Source** Geo: 0.500 mm/s, Mic: 50.00 dB(A)  
**Range** Geo: 254.0 mm/s  
**Record Time** 2.411 sec (Auto=1Sec) at 1024 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory1.MMB

**Serial Number** UM13228 V 10-88 Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** February 28, 2018 by InstanTel  
**File Name** UM13228\_20190116152251.IDFW

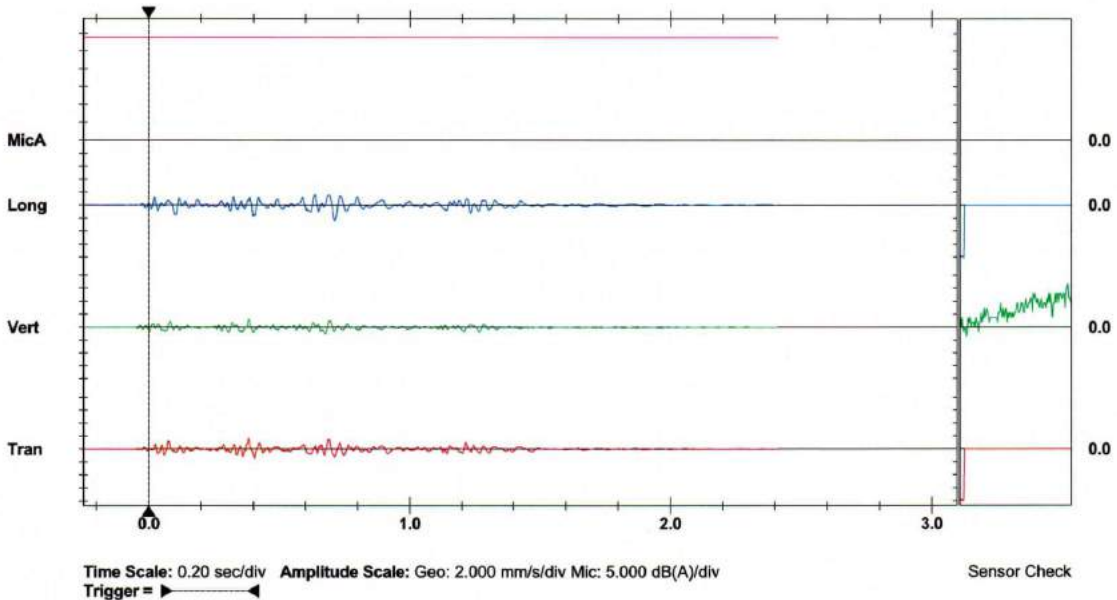
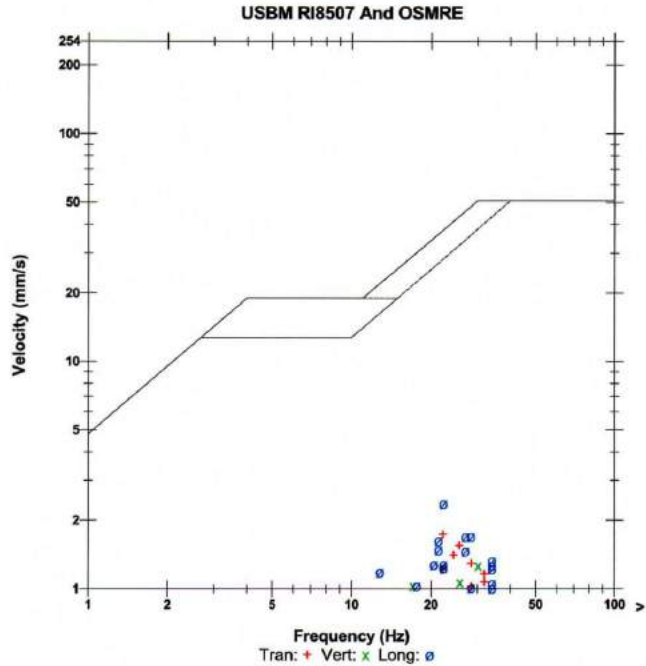
**Notes**

Location:  
 Client:  
 User Name:  
 General:

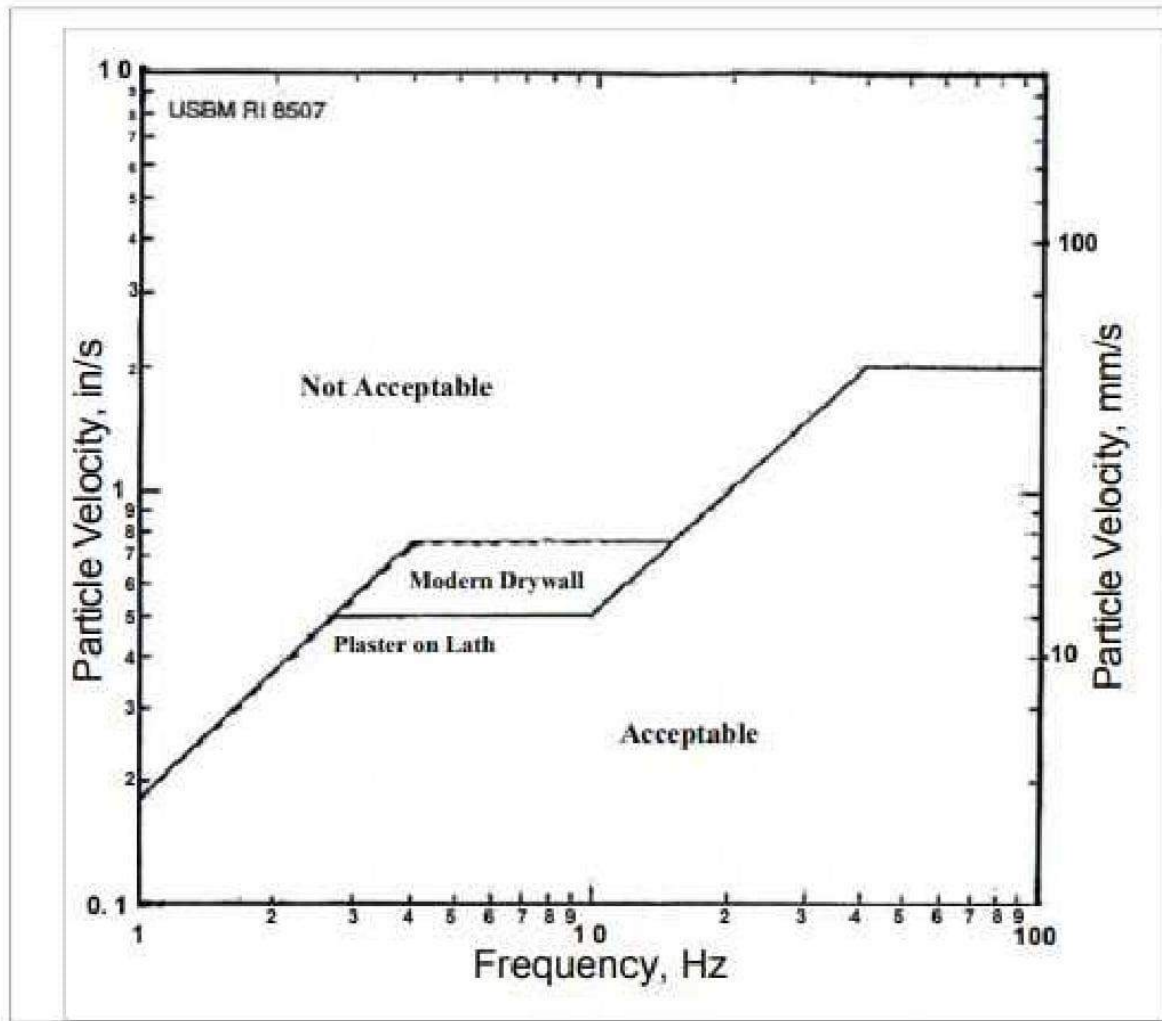
**Microphone** 'A' Weight - Fast  
**LMax** <30 dB(A) at -0.250 sec  
**Sound (dB)** LMin <30 L10 <30 L90 <30 Leq <30  
**Channel Test** Check ( Amp = 3496 mv )

	Tran	Vert	Long	
PPV	1.742	1.269	2.372	mm/s
ZC Freq	22	30	22	Hz
Time (Rel. to Trig)	0.383	0.383	0.711	sec
Peak Acceleration	0.039	0.027	0.045	g
Peak Displacement	0.009	0.008	0.017	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.7	6.9	Hz
Overswing Ratio	4.6	4.4	5.0	

Peak Vector Sum 2.709 mm/s at 0.712 sec



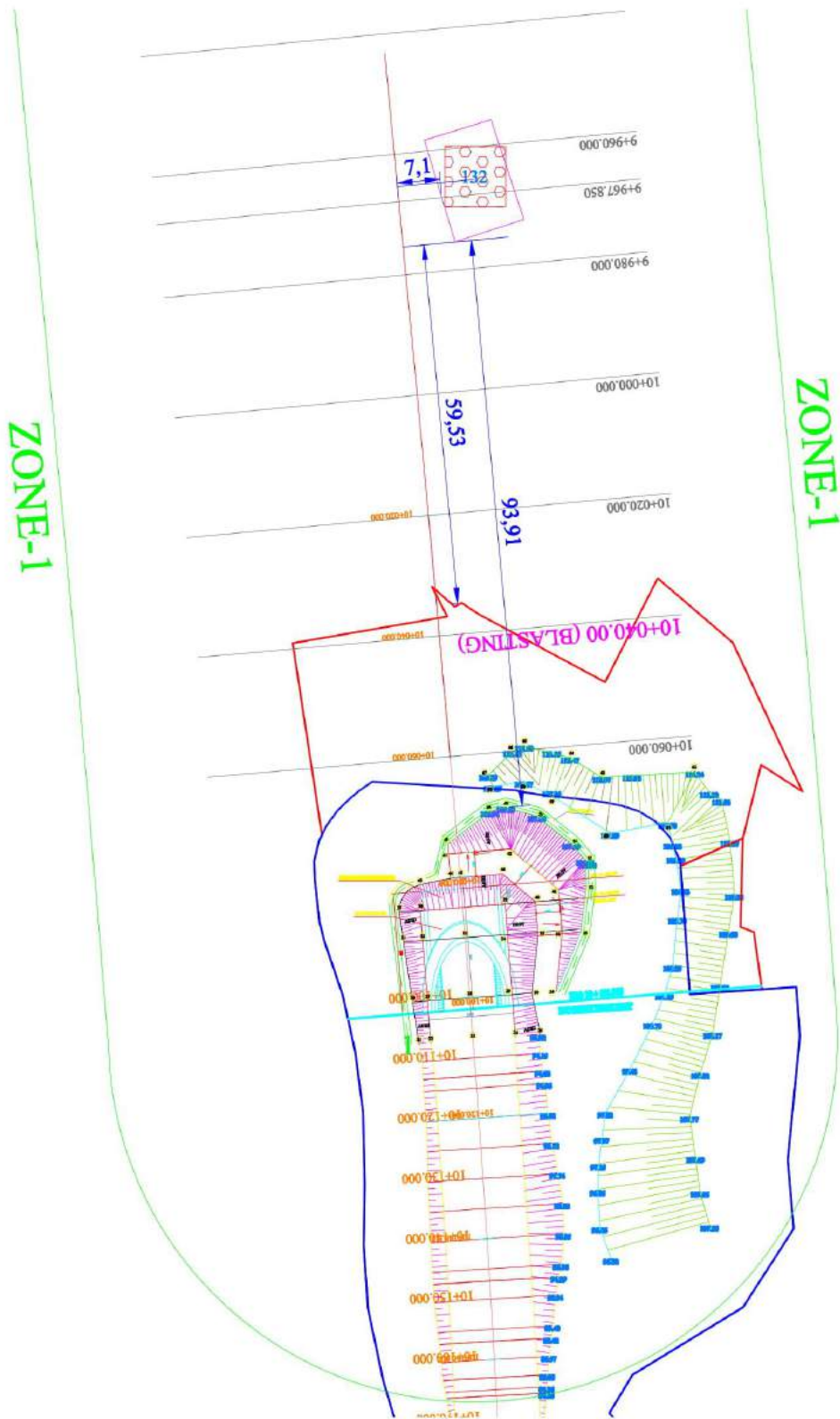
<b>TUNNEL 5 BLASTING REPORT</b>		
<b>GENERAL</b>		
<b>Blast Date</b>	16.01.2019	<b>Time : 15.22 a.m.</b>
<b>Portal</b>	North <input type="checkbox"/>	South <input checked="" type="checkbox"/>
<b>Tube</b>	North <input type="checkbox"/>	South <input type="checkbox"/>
<b>Rock Mass Class</b>		
<b>OPEN SURFACE BLASTING</b>		
	KM: 10+200	
BLASTING AREA	48	m <sup>2</sup>
LENGTH	6000	mm
WIDTH	8000	mm
DEPTH	4.5	m
<b>DRILLING EQUIPMENT</b>		
TYPE OF MACHINE	Atlas Copco	
DRILL STEEL LENGTH	6	mm
MAX HOLE LENGTH	4.5	mm
NUMBER OF BOOMS	1	no
<b>DRILLING DATA</b>		
HOLE DIAMETER	89	mm
CUT TYPE	Mixed	
LARGE HOLE	89	mm
NUMBER OF HOLES	25	no
HOLE LENGTH	4500	mm
DRILLED METERS	120	drm
ADVANCE	-	mm
PULL LENGTH	-	%
ROCK VOLUME PER ROUND	270	m <sup>3</sup>
SPECIFIC DRILLING	1.27	drm/m <sup>3</sup>
<b>DRILLING TIME</b>		
TYPE OF ROCK	TUFF BRECCIA	
PENETRATION	2.5	m/min
DRILLING RATE	2.33	m/min
REAMING PENETRATION	0	m/min
REAMING TIME	0	min
DRILLING TIME	94	min
SETUP+DISMOUNT+REMOVE	30	min
DRILLING CYCLE	200	min
<b>CHARGING TIME</b>		
CHARGE TOTAL	141	kg
SPECIFIC CHARGE	1.91	kg/m <sup>3</sup>
CHARGING CREW	5	men
SETUP TIME	30	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	50	min/round
<b>BLASTING PATTERN</b>		
Attached	Date:16.12.2018	



The safe limit for

----- Modern Homes

\_\_\_\_\_ Older Homes





## Vibration, Noise and Air Overpressure Monitor for Regulatory Compliance

### Range of Applications:

- Blast monitoring for compliance
- Near field monitoring
- Sound monitoring
- Pile driving
- Compaction
- Construction activity
- Dynamic compaction monitoring
- Demolition activity
- Heavy transportation
- Environmental monitoring
- Tunnel and subway monitoring
- Bridge monitoring
- Structural monitoring and analysis
- Remote access monitoring

### Monitoring Redefined

With **Micromate**, InstanTel has redefined industry standards for functionality and ease of use. **Micromate** provides reliable regulatory compliance monitoring with an ISEE or DIN Triaxial Geophone and ISEE Linear Microphone or Sound Level Microphone. Small enough to fit in your hand, **Micromate** is the first monitor in the industry to provide a touch screen interface. Support of USB 2.0 allows use of memory sticks and approved external devices such as USB hubs, modems, printers and GPS (sold separately). Ruggedness and reliability are the cornerstone attributes of InstanTel products.

### Communications

**Micromate** supports USB 2.0 on both the host and device ports, operating up to 12 MB/s. External memory sticks, an InstanTel compatible printer, modem and a host of optional USB peripherals (sold separately) are supported. Supported peripherals are automatically identified when connected, and associated commands and functions are made available (in much the same manner that you are accustomed to with your laptop and computer). **Micromate** supports InstanTel's **AutoCall Home™** feature; when an event occurs the event is immediately captured and is automatically transmitted to your computer (there is no need to prompt the unit to transmit data). Event data can also be sent to **Vision™**, InstanTel's cloud-based data hosting application automatically.

### Easy to Use

With the use of a color touch screen and icon based user interface, InstanTel sets a new industry standard for efficiency and ease of use. A key pad complements the user interface. Whether you prefer touch screens, key pads, or a combination of both, you'll find the **Micromate** intuitive to use and easy to learn. A full display touch screen keyboard makes entry of data and notes convenient and easy. Of course, the unit can be interfaced to a laptop or computer as well. Connectors are color coded for easy identification and installation.

### Saving Events

Events and unit settings are saved in a reliable on-board, non-volatile memory with ample storage capacity for most applications and up to 1,000 events (with additional optional memory capacity available). Data can be transferred for off-unit storage or off-unit data manipulation to a computer

or laptop via the convenient USB interface or via use of a compatible modem. Data retrieval can be as simple as copying events to an external USB memory stick (no laptop or computer is required).

### Rugged and Reliable

Simply put, the **Micromate** is built to last. It's built to be reliable, every day and all day – for years! The base unit comes with a fully sealed top panel, non-corrosive industrial grade connectors and fully sealed electronics. The base unit housing and connectors provide a water resistant seal. The custom molded housings for the geophone and base unit are made of superior impact polycarbonate. An optional protective "boot" complete with faceplate provides the highest level of durability and ruggedness available in InstanTel's product line.



### Key Features

- USB 2.0 with Host and Device support
- USB support for memory sticks, and InstanTel compatible field printer, modem and GPS devices (sold separately)
- Synchronizes Class 1 noise monitoring and vibration data on the same monitoring unit
- Large, high resolution, color graphics touch screen. Easy to read and navigate menu structure
- Context Sensitive Icons: Icons are only shown if they are relevant to what you are doing
- Short Cut Icons: Fast, one touch access to the most commonly used features
- Integrated Keypad: Large 10-key interface with dedicated function keys
- Supports InstanTel's **Auto Call Home** for remote automated data reporting/transmission
- Monitor Scheduler: Assign different setup files, scheduled self checks, scheduled Auto Call Home times and when to start and stop monitoring
- Small enough to be hand-held
- Rugged and reliable: Field rugged and durable design with a fully sealed top panel, non-corrosive connectors, and sealed electronics to enhance water resistance
- Storage capacity for 1,000 events (additional capacity optional)
- Printer for immediate in-field printing of reports (sold separately)
- 10 day battery life (standard), 15 days (optional)

# Micromate®

## General Specifications

Channels	Microphone and Triaxial Geophone (ISEE or DIN)	
Geophone	Up to 254 mm/s (10 in/s)	
Range	ISEE Seismograph Specification or DIN 45669-1	
Response Standard	0.00788 mm/s (0.00031 in/s)	
Resolution	2 to 250 Hz, within zero to -3 dB of an ideal flat response / 1 to 315 Hz	
Frequency Range (ISEE/DIN)	+/- 5% or 0.5 mm/s (0.02 in/s), whichever is larger, between 4 and 125 Hz / DIN 45669-1 Standard	
Accuracy (ISEE/DIN)	2.2 g/cc (137 lbs/ft <sup>3</sup> )	
Transducer Density	1,000 m (3,250 ft)	
Maximum Cable Length (ISEE/DIN)		
Microphone (Sold separately)	<b>ISEE Linear Microphone</b>	<b>Sound Level Microphone</b>
Weighting Scales	ISEE Linear Microphone	A-Weight or C-Weight
Response Standard	ISEE Seismograph Specification (2011)	Fast (125 ms) or Slow (1 s)
Range	2 to 500 Pa (0.00029-0.0725 psi [88 to 148 dB])	30 to 140 dB A or C
Resolution	0.0156 Pa (2.2662x10 <sup>-4</sup> psi)	0.05 dB (Display limit 0.1dB)
Frequency Response	2 to 250 Hz between -3 dB roll off points	10 Hz to 20 kHz
Accuracy	+/- 10% or +/- 1dB, whichever is larger, between 4 and 125 Hz	IEC 61672 Class 1
Maximum Cable Length	75 m (250 ft)	75 m (250 ft)

## Waveform Recording

Record Modes	Waveform, Waveform Manual
Seismic Trigger	0.13 to 254 mm/s (0.005 to 10 in/s)
Linear Acoustic Trigger	2.0 to 500 Pa (100 to 148 dB)
Sample Rate	1,024, 2,048, 4,096 S/s per channel (independent of record time)
Record Stop Mode	Fixed record time, <b>Instantel AutoRecord™</b> record stop mode
Record Time	1 to 90 seconds (programmable in one-second steps) plus a pre-trigger at 0.25, 0.50, 0.75, or 1.0 second
<b>AutoRecord Time</b>	Event is recorded until activity remains below trigger level for duration of auto window, or until available memory is filled
Cycle Time	Recording uninterrupted by event processing, monitoring, or communication - zero dead time
Storage Capacity	
Full Waveform Events	1,000, 1 second events at 2,048 S/s sample rate (memory upgrade optional)

## Histogram Recording

Record Modes	Histogram and <b>Instantel Histogram Combo™</b> (monitor captures triggered waveforms while recording in Histogram mode)
Recording Interval	2 to 30 seconds in 1 second increments, and 30 seconds to 30 minutes in 30 second increments
Histogram Storage Capacity	Approximately 220,000 intervals. Examples: 5 days at 2 second intervals, or 150 days at 1 minute
Histogram Combo Storage Capacity	Example: 30 Days of Histogram recording at 1 minute intervals, and over 900 1 second waveform events

## Physical Specifications

Dimensions	101.6 x 135.1 x 44.5 mm (4.15 x 5.32 x 1.75 in)
Weight	0.5 kg (1.1 lbs)
Battery	10 day rechargeable lithium ion (optional 15 day battery upgrade available)
User Interface	10 domed tactile keys, colour touch screen, and full display keyboard with dedicated icons for common functions
Display	QVGA, 320 x 240 color touch screen
Printer (sold separately)	Precision high-resolution
PC Interface	USB
Auxiliary Inputs and Outputs (Optional)	External trigger, Remote alarm
Environmental	
LCD Operating Temperature	-10 to 55°C (14 to 131°F)
Operating Temperature Supporting USB Sensors	-40 to 45°C (-40 to 113°F)
Operating Temperature Without USB Sensors	-40 to 55°C (-40 to 131°F) *NOTE: LCD screen saver must be enabled and set to a maximum time out of 2 minutes.
Remote Communications	Compatible with these supported modems; Sierra Wireless™ Airlink® Raven Series X, XT, GX400, or LS300
Electrical Standard	CE Class B - The Micromate has been tested and passed IEC (CB scheme test report available) 61010-1



**Corporate Office:**  
309 Legget Drive,  
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StanleyBlack&Decker

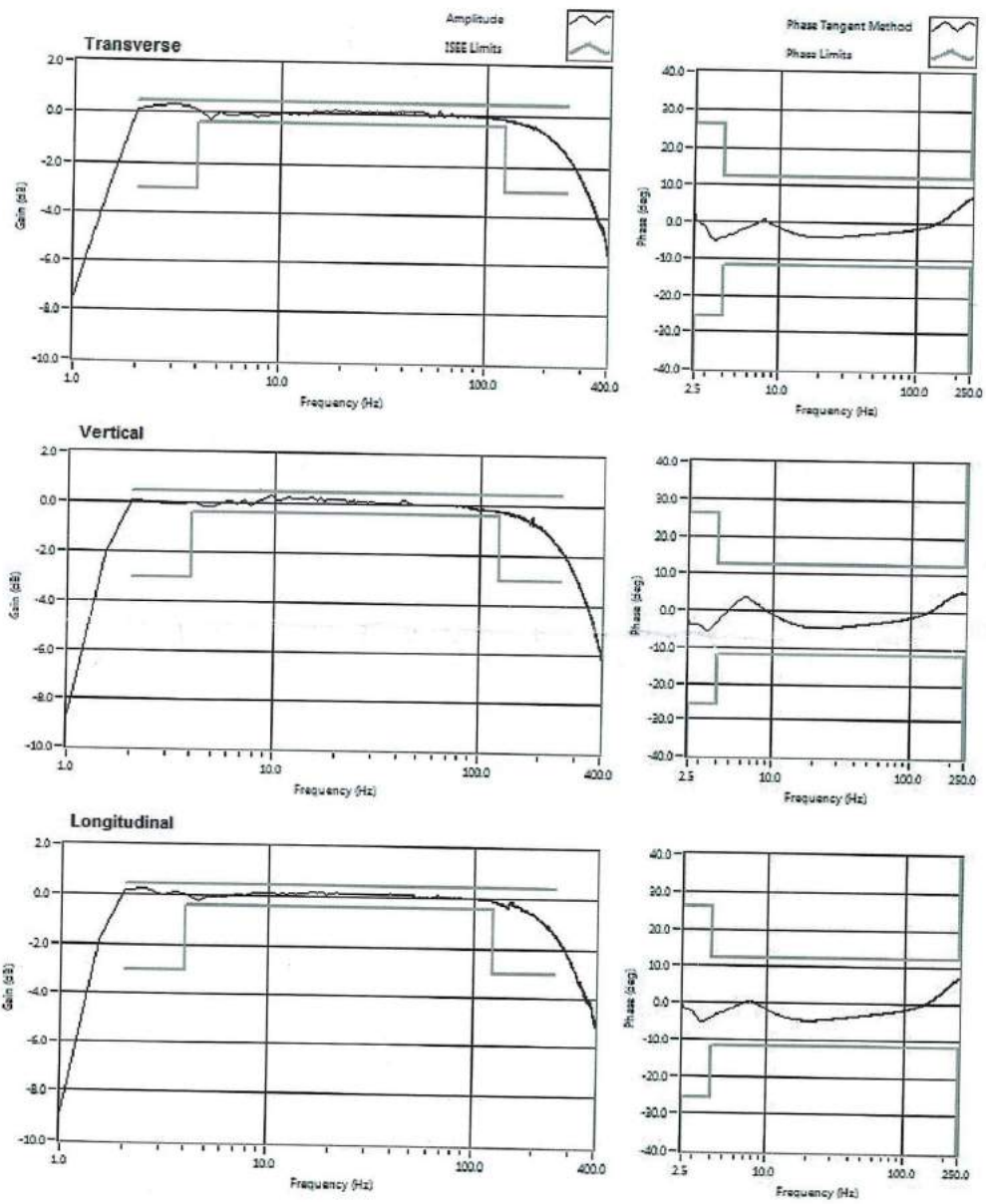
9980-721001-000 Rev. 11 - Product Specifications are Subject to Change

The World's Most Trusted Monitors — Vibration · Noise · Air Overpressure

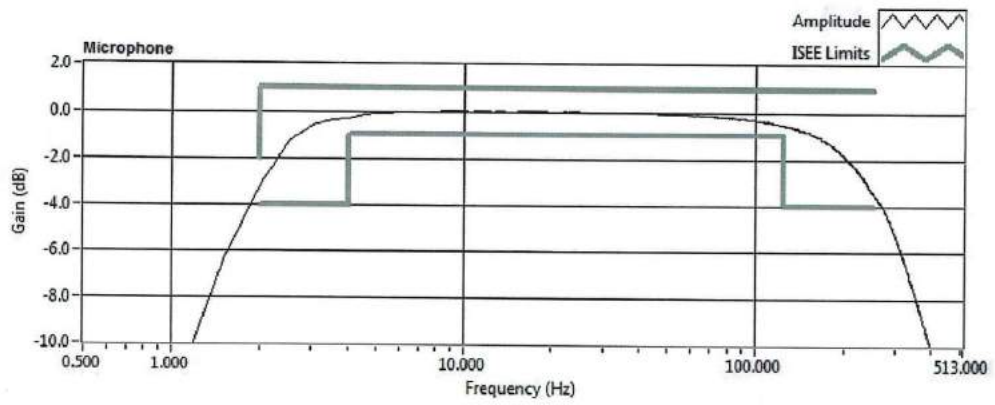
www.instantel.com



# Frequency Response of UM13228



### Amplitude Frequency Response of UL3245





# Annex 6. Borrow pit information

საქართველო  
აჭარის ავტონომიური რესპუბლიკის  
ფინანსთა და ეკონომიკის სამინისტრო

GEORGIA  
AUTONOMOUS REPUBLIC OF AJARA  
MINISTRY OF FINANCE AND ECONOMY

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6018 ქ. კაბუში, კობახიძის ქ. №119 ბაღიკლდანი (04 22) 27 35 16 (162) ფაქსი: (04 22) 27 66 7  
6018 №119 Kobakhidze str, Batumi, Georgia Tel: (04 22) 27 35 10 (162) Fax: (04 22) 27 66 7

347-01-4-201707211602



BADRI BALASTGI

21/07/2017

07.2017

ბრძანება N 01-3/347



**შპს „გოდერძი“-ზე (ს/ნ 445482264) სასარგებლო წიაღისეულის მოპოვების  
ლიცენზიის გაცემის შესახებ**

„ლიცენზიებისა და ნებართვების შესახებ“ საქართველოს კანონის მე-5 მუხლის, მე-7 მუხლის პირველი პუნქტის, „აჭარის ავტონომიური რესპუბლიკის ფინანსთა და ეკონომიკის სამინისტროსათვის ლიცენზიის გაცემის უფლებამოსილების დელეგირების შესახებ“ საქართველოს მთავრობის 2008 წლის 12 აპრილის №98 დადგენილებით, საქართველოს მთავრობის 2005 წლის 11 აგვისტოს №136 დადგენილებით დამტკიცებული „სასარგებლო წიაღისეულის მოპოვების ლიცენზიის გაცემის წესისა და პირობების შესახებ დებულების“, „სასარგებლო ლიცენზიის გაცემის შინაით აუქციონის გამართვის, სარგებლობის ლიცენზიის გაცემის საწყისი ფასის განსაზღვრისა და ანგარიშსწორების წესის შესახებ დებულების დამტკიცების თაობაზე“ სსიპ გარემოს ეროვნული სააგენტოს უფროსის 2017 წლის 20 მარტის N11/ნ ბრძანების, 2017 წლის 05 ივნისის ჩატარებული ელექტრონული აუქციონისა და ქონების მართვისა და პრივატიზების დეპარტამენტის უფროსის 2017 წლის 18 ივლისის N01-22/17 წარმოსტეხებითი ბარათის საფუძველზე:

**გ ბ რ ძ ა ნ ე ბ ა :**

1. გაიცეს შპს „გოდერძი“-ზე (ს/ნ 445482264) ქედის მუნიციპალიტეტში, სოფელ ზვარეს მიმდებარედ, „მდ. აჭარისწყლის ქეიმა-ხრეშის გამოვლინები“-ს მეექვსე უბანზე სასარგებლო წიაღისეულის მოპოვების ლიცენზია 1 წლის ვადით, შემდეგი პირობების გათვალისწინებით:
  - ა) დაუწყესდეს მიწისა და სამთო მინაკუთვნი (ფართობით 10 886 კვ.მ) დანართი N1-ით განსაზღვრული X და Y კოორდინატების ფარგლებში;
  - ბ) სასარგებლო წიაღისეულის ჯამური მოპოვება ლიცენზიის მოქმედების პერიოდში განისაზღვროს 21 772 მ<sup>3</sup>-ის ოდენობით, 2,0 მეტრიანი სისქის პროდუქტული შრის მოპოვების უფლებით;
  - გ) ობიექტის დამუშავება უნდა მოხდეს ქვეყანაში მოქმედი სამთო საქმისათვის მიღებული უსაფრთხოების წესების დაცვით;
  - დ) ლიცენზიის მფლობელმა დაიცვას „ტექნიკური რეგლამენტების - წიაღით სარგებლობასთან დაკავშირებული სალიცენზიო პირობების დაცვის შესახებ ანგარიშგების (საინფორმაციო ანგარიში) წესის, წიაღით სარგებლობის პროექტების, საბადოთა დამუშავების ტექნოლოგიური სქემებისა და სამთო სამუშაოთა განვითარების გეგმების



შედგენის წესისა და სტატისტიკური დაკვირვების ფორმების (№1-01, 1-02, 1-03, 1-04) დამტკიცების თაობაზე" საქართველოს მთავრობის 2014 წლის 4 აპრილის №271 და „კარიერების უსაფრთხოების შესახებ ტექნიკური რეგლამენტის დამტკიცების თაობაზე" საქართველოს მთავრობის 2013 წლის 31 დეკემბრის №450 დადგენილებებით გათვალისწინებული მოთხოვნები;

ე) ლიცენზიის მფლობელი ვალდებულია სასარგებლო წიაღისეულის მოპოვების დაწყებამდე შეადგინოს წიაღით სარგებლობის საპროექტო დოკუმენტაცია ამ ბრძანების პირველი პუნქტის „დ“ ქვეპუნქტში მითითებული ტექნიკური რეგლამენტის მოთხოვნების შესაბამისად;

ვ) ლიცენზიის მფლობელმა ყოველწლიურად 1 აპრილიდან 1 მაისამდე საქართველოს გარემოსა და ბუნებრივი რესურსების დაცვის სამინისტროს სახელმწიფო საქვეყნებო დაწესებულების გარემოსდაცვითი ზედამხედველობის დეპარტამენტში წარადგინოს წერილობითი ანგარიშგება სალიცენზიო პირობების დაცვის შესახებ;

ზ) ლიცენზიის მფლობელი ვალდებულია ლიცენზიის გაცემიდან ერთი თვის ვადაში ლიცენზიის გამეფს დასამტკიცებლად წარუდგინოს სასარგებლო წიაღისეულის ათვისების შესაბამისი გეგმა (ყოველწლიურად ასათვისებელი მოცულობის მითითებით).

2. ლიცენზიის მფლობელმა შეასრულოს საქართველოს მოქმედი კანონმდებლობით, მათ შორის „გარემოს დაცვის შესახებ“, „წიაღის შესახებ“, „წყლის შესახებ“, „ბუნებრივი რესურსებით სარგებლობისათვის მოსაკრებლების შესახებ“ საქართველოს კანონებით და შესაბამისი კანონქვემდებარე აქტებით დადგენილი მოთხოვნები, ასევე აჭარის ავტონომიური რესპუბლიკის გარემოს დაცვისა ბუნებრივი რესურსების სამმართველოს 24.01.2017 წ. №08/56 წერილის საფუძველზე დადგენილი სხვა პირობები.

3. ამ ბრძანების ასლი გაეგზავნოს შპს „გოდერძი“-ს.

4. დაევალოს ქონების მართვისა და პრივატიზების დეპარტამენტს სალიცენზიო მოწმობის გაცემის უზრუნველყოფა ამ ბრძანების პირველი პუნქტის შესაბამისად.

5. ეს ბრძანება შეიძლება გასაჩივრდეს საქართველოს გარემოსა და ბუნებრივი რესურსების დაცვის სამინისტროში (ქ. თბილისი, გულუას ქ.№6), ამ ბრძანების ძალაში შესვლიდან ერთი თვის ვადაში.

6. ბრძანება ძალაშია ხელმოწერის დღიდან.

რამაზ ბოლქვაძე

მინისტრი





საქართველო  
 აჭარის ავტონომიური რესპუბლიკის  
 ფინანსთა და ეკონომიკის სამინისტრო  
 სასარგებლო წიაღისეულის მოპოვების ლიცენზია

№ 000174

2017 წლის 21 ივლისი  
 (ლიცენზიის უწყებრივ სალიცენზიო რეესტრში გატარების თარიღი)

გაცემულია: შპს „გოდერძი“ შპს (ს/რ 445482264)

(თურთაღი ან ფიზიკური პირის დასახელება / ვინაობა, მონაცემები მის შესახებ)  
 საფუძველი: აჭარის ავტონომიური რესპუბლიკის ფინანსთა და ეკონომიკის  
 მინისტრის 2017 წლის 21 ივლისის № 01-3/347 ბრძანება.

ლიცენზიით გათვალისწინებული ტერიტორიის მდებარეობა და ფართობი:  
 ქედის მუნიციპალიტეტში, სოფელ ზვარეს მიმდებარედ  
 „ბა აჭარისწყლის ქვიშა-ბრემსს გამოვლინების“ მეექვსე უბანი  
 მიწისა და საბითონო მინაკუთვნი - 10 886 კვ/მ.

20 000



მოსაკრებელი წილისფურცლის სახეობა და მოცულობა:  
სასარგებლო წილისფურცლის (ქვიშა-ხორეში) უკონტინგენტო მითითება  
21 772 ანაზორი/მმტრი.

სალიცენზიო პირობები: ბანასაჯარტულია აკაპის ავტონომიური რესპუბლიკის ფინანსთა  
და მართლმართის მინისტრის 2017 წლის 21 ივლისის № 01-3347 ბრძანებით.

ლიცენზიის მოქმედების ვადა - 1 წელი 21/07/2017 დას 21/07/2018. მდე

აკაპის ავტონომიური რესპუბლიკის  
ფინანსთა და უკონტინგენტო სამინისტროს  
წარმომადგენელი



გავედანი ლიცენზიის პირობებს და  
ვიღებ ვასუბისმგებლობას მათ  
შესრულებასზე  
(ლიცენზიის მფლობელი)



*(Handwritten signature)*  
(ხელმოწერა)

დამკვეთი: აკაპის ავტონომიური რესპუბლიკის ფინანსთა და უკონტინგენტო სამინისტრო  
დამსახურებელი: შპს „კაბალენი“  
სისს-ს რეგისტრაციის № 17 3991



დანართი (1 გვ)

დამტკიცებულია

საქართველოს რესპუბლიკის  
გარემოსდაცვითი რესურსების  
მინისტრის  
2017 წლის 11 ივლისის № 113/17 ბრძანებით

ქედის მუნიციპალიტეტი, სოფელ ზვარეს მიმდებარე ტერიტორიაზე, „მდ. აჭარისწყლის ქვიშა-ზრემის გამოვლინების“ მე-VI უბნის ადგილმდებარეობის

X და Y კოორდინატები

VI - უბანი		
№	X	Y
0	249042	4613645
1	249110	4613577
2	248945	4613607
3	249009	4613519
S=10 886 კვ/მ		
WGS-1984		

10.886 მ<sup>2</sup>



**საქართველოს მთავრობის  
განკარგულება**

N 586 2018 წლის 14 მარტი ქ. თბილისი

**შპს „ენგური – 2015-ის“ სასარგებლო წიაღისეულის მოპოვების  
ლიცენზიისაგან გათავისუფლების თაობაზე**

1. „სასარგებლო წიაღისეულის მოპოვების ლიცენზიის გაცემის წესისა და პირობების შესახებ დებულების დამტკიცების თაობაზე“ საქართველოს მთავრობის 2005 წლის 11 აგვისტოს №136 დადგენილებით დამტკიცებული დებულების 7<sup>+</sup> მუხლის მე-4 – მე-7 პუნქტების საფუძველზე, ხელვაჩაურის მუნიციპალიტეტში, მდ. აჭარისწყლის მიმდებარე ტერიტორიების დატბორვის საშიშროების არსებობის გამო, მდინარის კალაპოტში არსებული ჭარბი ინერტული ნატანის აკუმულირების უბნებიდან ჭარბი ინერტული მასალის ამოღების მიზნით, შპს „ენგური – 2015“ (ს/ნ: 419997622) 5 თვის ვადით გათავისუფლდეს სასარგებლო წიაღისეულის მოპოვების ლიცენზიისაგან და მიეცეს უფლება, მოიპოვოს 48 450 (ორმოცდარვა ათას ოთხას ორმოცდაათი) მ<sup>3</sup> ინერტული მასალა (ქვიშა-ხრეში) შემდეგი X და Y კოორდინატების საზღვრებში:

საქართველოს მთავრობისგან	ფს
დასავლეთი განთავსების სამსახური	
შეარსების №	4676/05
1603	2018
39	შეასაძრ



№	X	Y
1	730030.05	4603208.57
2	730140.51	4603190.05
3	730224.52	4603151.02
4	730322.41	4603084.88
5	730359.46	4603061.06
6	730393.19	4603010.79
7	730503.65	4602965.81
8	730604.2	4602917.53
9	730575.75	4602896.36
10	730418.33	4602974.41
11	730330.35	4603039.23
12	730245.68	4603022.04
13	730173.59	4603069.66
14	730028.73	4603191.37
S = 3.23 კა		
WGS 1984.		

2. ლიცენზიისაგან გათავისუფლებული პირი - შპს „ენგური - 2015“ ვალდებულია:

ა) უზრუნველყოს 2017 წლის 4 ოქტომბრის გეოსაინფორმაციო პაკეტით განსაზღვრული პირობებისა და საქართველოს რეგიონული განვითარებისა და ინფრასტრუქტურის სამინისტროს გამგებლობაში არსებული სახელმწიფო საქვეუწყებო დაწესებულების - საქართველოს საავტომობილო გზების დეპარტამენტის მოთხოვნის შესრულება;

ბ) უზრუნველყოს ბუნებრივი რესურსებით სარგებლობის მოსაკრებლის გადახდა „ბუნებრივი რესურსებით სარგებლობისათვის მოსაკრებლების შესახებ“ საქართველოს კანონით დადგენილი ოდენობით;

გ) სასარგებლო წიაღისეულის მოპოვების ვადის გასვლიდან ორი კვირის ვადაში საქართველოს ეკონომიკისა და მდგრადი განვითარების სამინისტროს სსიპ - წიაღის ეროვნულ სააგენტოს წარუდგინოს ინფორმაცია მოპოვებული ბუნებრივი რესურსის ოდენობის შესახებ.

პრემიერ-მინისტრი

გიორგი კვიციანი





## Order of the Government of Georgia

14<sup>th</sup> March, 2018 N586 Tbilisi

### Ltd „Enguri-2015” relief from the license of acquisition of minerals

1. „Rule of issuing a license and conditions regarding to mining minerals referring to regulations on approval order” in 11th August 2005 N136 based on the provisions of clauses 4 and 7 of the regulation approved by the resolution, in the Khelvachauri municipality, due to the danger of flooding adjacent territories of Adjaristskali, in order to remove the excess inert materials from the accumulation sites of the inert sediment in the riverbed, ltd „Enguri-2015” (s/n: 419997622) will be released for 5 months from the license of acquisition of minerals and to be given the right, to obtain 48 450 (forty-four thousand four hundred and fifty) m<sup>3</sup> inert material (Sand gravel) following X and Y coordinates borders:

N	X	Y
1	730030.05	4603208.57
2	730140.51	4603190.05
3	730224.52	4603151.02
4	730322.41	4603084.88
5	730359.46	4603061.06
6	730393.19	4603010.79
7	730503.65	4602965.81
8	730604.2	4602917.53

*forty eight*

9	730575.75	4602896.36
10	730418.33	4602974.41
11	730330.35	4603039.23
12	730245.68	4603022.04
13	730173.59	4603069.66
14	730028.73	4603191.37
S=3.23 ჰს		
WGS1984		

2. A released person from the license \_ltd "Enguri\_2015" is obliged:

a) To ensure the terms and conditions defined by the GeoInformation package of 4th October 2017 and the State Subordinated Institution of the Ministry of Regional Development and Infrastructure of Georgian Road Department's requirement;

b) Provide natural resources to ensure payment of the use of „natural resources" by the amount established by the Law of Georgia on Fees for Use of Natural Resources;

g) Within two weeks after expiration of the period to obtain natural resources, submit to the National Agency for the Ministry of Economy and Sustainable Development of Georgia with the amount of extracted natural resources.

Prime Minister

George Kvirikashvili

**Georgia**

**Autonomous Republic of Ajara**

**Ministry of Finance and Economy**

**347-01-4-201707211602**

**21/07/2017**

**Order #013/347**

Regarding the issuing the license to the "Goderzi" Ltd (i/c 445482264) for obtaining the minerals

According to the First Item of Clause 7 "about delegation the right of issuing the license by the Ministry of Finance and economy of Autonomic Republic of Ajara", and Clause 5 of the Georgian Law regarding "Licenses and permissions", according to the resolution #98 of the Georgian Government dated 12 April 2018, according to "decree regarding issuing rules and conditions for the obtaining minerals" approved by Georgian government with the resolution #136 dated 11 August 2005, on the basis of the order the head of the Environmental national agency #1/N dated 20 March 2017 regarding "holding the auction for the purpose of issuing the usage license, and identifying the initial price for issuing the license and payment", on the basis of the explanatory note #01-22/1144 of the head of the property management and privatization department and based on the electronic auction held on 5<sup>th</sup> of June 2017:

I order

1. The license for 1 year to be issued to the "Goderzi" ltd for obtaining minerals in Qeda municipality, in the vicinity of village Zvare", on the section #6 of river "Ajaristskali" where the sand-gravel material is revealed, taking the following conditions into consideration:
  - a) The land and mining belonging to be identified according to the attached X and Y coordinates (10886m2)
  - b) The total volume of the minerals to be obtained during the period of the license no more than 21772m3, with the 2m thickness productive layer obtaining right.
  - c) The Site to be treated according to the acting Safety rules accepted for the mining works in Georgia

- d) The owner of the license should protect the requirements of the resolutions #271 and #450 of the Georgian Government dated 4 April 2014 and 31 December 2013 relevantly related to the rules of obtaining minerals, designs for the usage of the material, technological schemes for the treatment of the quarry, about approval of the rules of drawing up the plan of development the works and the forms of the static observation (N1-01, 1-02, 1-03, 1-04)
  - e) The owner of the license is obliged to create the design documentation of obtaining the minerals before starting the works in accordance with technical conditions identified in the sub-clause d of the item 1;
  - f) The owner of the license should submit the reports about the protection of the license conditions to the environmental supervision department belonging to the Ministry of Environmental and Natural Recourae Protection yearly from 1 April till 1 May
  - g) The owner of the license is obliged to submit the associated usage plan to the license issuing authority for approval within one month period since issuing the license
2. The owner of the license should protect all the requirements identified by the acting Georgian Legislation, including the laws and associated resolutions regarding "Environmental Protection", "Minerals", "Water", "Fee for usage with the national recourses", also follow the other technical conditions required by the letter ref #08/56 dated 24.01.2017 of the Environmental Protection and Natural Recourse Protection Department of the autonomous Republic of Ajara.
  3. The Copy of this order to be sent to "Goderzi" ltd
  4. The Department of Property Management and Privatization to be instructed to issue the License Certificate in accordance with the Item #1 of this order.
  5. This order can be appealed in the ministry of Environmental and Natural recourse Protection Ministry (#6, Gulua Street, Tbilisi, Georgia) within one month after this order will become valid
  6. The order is valid since the day of the signature

Ramaz Bolkvadze

Minister

Georgia

Ministry of Finance and Economy of Adjara

Borrow Pit license

N000174

21 July

2017year

( registration date )

Issued to ----- "Goderdzi " LTD ( I/D 445482264)

(name of the organization or private person /ID data )

Based on order N 01-3/247 from Ministry of Finance and Economy of Adjara 21th of July 2017

Location and area according to the License -- -----

Qeda Municipality, near village Zvare ,section six "RV Ajaristskali-" sand gravel-10886kg/m

Type and amount Borrow pit material -Borrow pit (sand –gravel) material total amount is 21 772m3

License conditions- Determined according to the order N 01-3/247 from Ministry of Finance and Economy of Adjara 21th of July 2017

Valid period is 1 year ---- 21.07.2018 from till 21.07.2018 year

Representative

Owner of the license

Ministry of Finance and Economy of Adjara

Stamp/ signature

( stamp/ signature )



Enclosure: approved by ministry of Finance and Economy of Adjara

Data : 21.07.2018 order 01-3/347

Qeda Municipality village Zvare

Sang gravel Borrow pit X-Y coordinates

	VI section	
N	X	Y
0	249042	4613645
1	249110	4613577
2	248945	4613607
3	249009	4613519
S=10886kg/2		
WGS-1984		