

Environmental Monitoring Report

Semestral Report: January – June 2021

July 2021

Project Number: 50064-001

Loan Number: 3520-GEO

Georgia: Batumi Bypass Road Project

Financed by the Asian Development Bank and Asian
Infrastructure Investment Bank

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Batumi, Georgia

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

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Abbreviations

ADB	Asian Development Bank
APs	Affected persons
BOT	Batumi Oil Terminal
BoQ	Bill of Quantities
BR	Bridges
CBP	Concrete batching plant
CSCS	Consultancy Services for the Construction Supervision
CSC	Construction Supervision Consultant
CPT-SPT	Cone Penetration Test - Standard Penetration Test
dB	Decibel
EHS	Environmental Health and Safety
EIA	Environmental Impact Assessment
EIP	Environmental Impact Permits
EMR	Environmental Monitoring Report
EMP	Environmental Management Plan
EMS	Environmental Management System
ENCR	Environmental Non-Conformance Report
EOT	Extension of Time
GI	Geotechnical Investigation
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
HHs	House Holds
HV	High Voltage
IC	Interchange
IPC	Interim Payment Certificate
LARP	Land Acquisition and Resettlement Plan
LV	Low Voltage
MAL	Maximum Allowable Limit

MEP	Mechanical Electrical and Plumbing
NATM	New Austrian Tunneling Method
OHPL	Overhead Power Line
PIU	Project Implementation Unit
POW	Programme of Works
PVD	Prefabricated Vertical Drains
RC	Reinforced Concrete
RD	Road's Department
RoW	Right of way
SSEMP	Site Specific Environmental Management Plan
TBA	To be advised
TOR	Terms of Reference
VAT	Value Added Tax
WPM	Weekly Progress Meeting

1 INTRODUCTION

1.1 Preamble

1. This report represents the Engineer's Semi - Annual Environmental Monitoring Review for **Batumi Bypass Road Project** for the period of January - June 2021.
2. This report is the 8th EMR for the Batumi Bypass Road Project.

1.2 Project Overview

3. Batumi Bypass Road covers the section from Makhinjauri to Chorokhi River. Total length of the road is 14.325km while the width is 14.0m. The Project Road passes through mountainous terrain and includes construction of five tunnels, three bridges, seven viaducts, nine overpasses, fifty-seven culverts and four interchanges.
4. The start section is separated from existing road to detour the villages and crosses the mountainous area by tunnels. There are tunnels and bridges to bypass the dismantled military base and mountainous area in the middle section. The end section is on flat terrain and joins the existing road while bypass the traffic area.
5. Project outline (km.-1+000 - km.13+325):

Classification of road	International highway
Design speed	$V = 100 \text{ km/hr}$
Road length	$L = 14.325 \text{ km}$
Road width	$B = 14 \text{ m}$
Lane numbers	2 lanes

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

6. 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 is constructing two bypass roads around Batumi and Kobuleti to improve traffic flow from these towns.
7. The Project Road, bypassing the city of Batumi to the east, is entirely located in Khelvachauri District. The design alignment goes through the villages of Makhinjauri, Gantiadi, Kapreshumi, Salibauri, Peria, and Makhvilauri. Passing through these villages, the design alignment crosses a diverse landscape including multiple ravines, streams, rivers, hills and hillsides. Thirteen kilometers of road, five tunnels, 19 bridges and four interchanges are planned along the Project alignment.
8. Batumi Bypass Road Project is being co-financed by the Asian Development Bank (ADB) and the Government of Georgia. The Project is classified as category A for the environment under ADB’s Safeguard Policy Statement (2009) so that a full Environmental Impact Assessment Report (EIA) and a Resettlement Action Plan (RAP) were prepared for the Project and disclosed on ADB website on 27 March 2017. Road Department of the Ministry of Regional Development and Infrastructure of Georgia submitted an EIA (IEE) to the Ministry of Environment and Natural Resources Protection 18 August 2017. Approved by MoEPA on 30 August 2017.

Picture 1. Project Location Map



Table 1.

EMPLOYER	ROADS DEPARTMENT (RD) OF THE MINISTRY OF REGIONAL DEVELOPMENT AND INFRASTRUCTURE OF GEORGIA
Funding Source	Asian Development Bank Asian Infrastructure Investment Bank
The Engineer	SMEC International Pty Ltd
Contractor	JV Polatylol & Mapa
Letter of Acceptance	06.07.2017
Signing date of Contract	29.08.2017
Commencement Date of Works	<ul style="list-style-type: none"> • 14 March 2018: section km6+700 – km12+830

	<ul style="list-style-type: none"> • 24 May 2018: section km1+750 – km2+250 • 15 Oct 2018: sections km0+00 – km0+650 and km2+250 – km6+700 • 30 April 2019: section km 0+850 - km 1+750 • 21 October 2019: section km12+830 - km13+325 (excluding land plot with cadastral code: 05.35.22.723) • 12 March 2021: section km0+650 – km0+850
Contract Period	1388 days
Original Completion date	30.08.2020
Time Extension (EOT No. 1)	31.12.2021
Expired time	1205 days
Remaining time	183 days
Defects Notification Period	3 years
Contract Price (GEL)	329,630,734.78 GEL (VAT included)

2.2 Project Contracts and Management

9. 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.

10. The TOR for the CSCS Contract contains the following tasks for the Environmental Specialists:

- a. Ensure that the provisions of the approved Environmental Management Plan are reflected in the Contractor's Site-Specific Environmental Management Plan (SSEMP) prior to its acceptance by the Engineer and the Employer, and thereafter ensure that the Contractor complies in every respect with the provisions of the SSEMP;
- b. Make sure that approved SSEMP is reflected in the Supervision Consultant's monthly and quarterly report for further compliance of the Contractor;
- c. 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 Supervision Consultant's Monthly Report;

- d. Develop a program for hands-on training of Contractor's staff in implementing the SSEMP.
11. 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 **Table 2**.

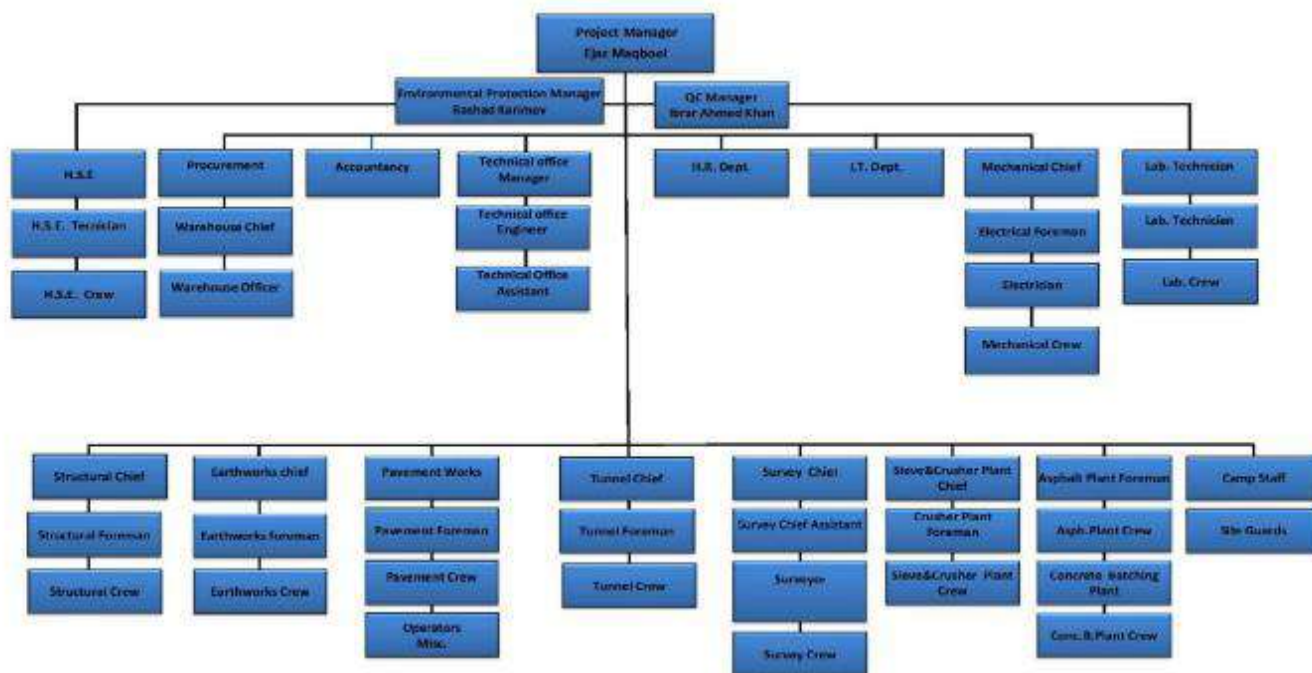
Table 2. Main organizations involved in Project implementation

Asian Development Bank	<p>Shanny Campbell Senior Transport Specialist E-mail: scampbell@adb.org</p> <p>Ninette R. Pajarillaga Environmental Specialist, Country Environmental Focal E-mail: npajarillaga@adb.org</p> <p>Keti Dgebuadze – RETA/ADB International Environmental Consultant E-mail: ketdgeb@yahoo.com; kdgebuadze.consultant@adb.org</p> <p>Nino Nadashvili Associate Safeguards Officer Georgia Resident Mission E-mail: nnadashvili@adb.org</p>
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12. 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.
13. Polatyol & Mapa Joint Venture Project Manager, Mr. Ejaz Maqbool has responsibility for all environmental aspects of construction work undertaken. He will be responsible for strictly monitoring that Polatyol & Mapa Joint Venture services site management team conforms to all environmental aspects in accordance with Polatyol & Mapa Joint Venture environmental access policy and safety plan.
14. 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 in **Figure 1**.

Figure 1. Contractor's Project Management Staff



15. Summary of civil works contracts and works' progress is summarized in Table 3. All awarded contracts included EMPs cleared by ADB and any conditions of applicable national EIA/IEE clearance.

2.3 Project Activities during Current Reporting Period

15. Total Project Progress at the end of December 2020 was 54.68% against Planned progress of 75.44%. After the extension of time (EOT) and the revised cash flow submission, the recalculation of the cumulative actual progress as of end of June gave 59.88% versus planned of 61.98%, with lag of 2.1%.
16. The Contractor submitted revised Programme of Works (POW) with cash flow on 19 December 2020 with the completion date of 16 February 2022. After the consultations with the Engineer, a Meeting was held in the Employer's Office on 15 February 2021 between the Employer/Engineer/Contractor and a MOM was signed between the parties. The contents of the meeting were translated into a Supplementary Agreement giving an EOT to 31 December 2021 for Completion of all the Works.
17. The Engineer received the Contractor's Revised POW on 23rd March 2021 and after a detailed review the Engineer responded on 13th April, requesting response from Contractor on the 30th April 2021. This final submission response date was mutually extended until 15th May 2021 to allow time for any further comments. During Month of May, Engineer pushed the Contractor to work on the programme in a timely manner, but Contractor requested additional time as Planning Engineer became Covid-19 positive.
18. Contractor submitted Rev.1 of March POW on 29th of May 2021, which the Engineer reviewed and responded with further comments. The Contractor resubmitted revised

- POW on 23 June 2021 and the Engineer after review gave no objection on 29 June 2021 to incorporate this POW into the Contract as all the completion dates were as per Supplementary Agreement No. 2.
19. At the end of the reporting period, land is still to be handed over to the Contractor for section KM 12+870 – KM 12+980, for ramp CL204 at Interchange No. 3 and CL 307 and CL308 at Interchange No. 4.
 20. During the reporting period, the lands for Bridges No. 6A, 6C and 6D, as well as section Km 0+650 – Km 0+850 were handed over to the Contractor. The Employer has also resolved the issues with the residents at Tunnel No. 1 Entrance and Tunnel No. 2 Exit portals together with Ramp CL210 at Interchange No. 3. Acquisition process for Lands for 3Nos. Emergency Exits of Tunnel No. 2, Tunnel No. 3 and Tunnel No 4 has been finalized during the month of June 2021, and the Contractor has been given notice to commence the works.
 21. Regarding the relocation of Utilities, the connecting process of the Gas pipelines 200mm and 500mm to the existing lines have been resolved. The relocation works at the Batumi Oil Terminal has been really slow. The Works were not ongoing during June 2021 and is expected to be resumed in July 2021. The issue with the landowners underneath the overhanging Electrical lines has also been resolved.
 22. In Tunnel No. 1 Exit Portal, through January 2021, the Contractor continued with site surveys inside and outside to check for movement of the graveyard. The Contractor carried out the drilling of 2No Boreholes outside the Tunnel. On 19 March 2021, meeting was held between the Contractor, Employer and the Engineer, and it was agreed to remove graves and relocate the houseowner to mitigate the risks. During May and June, the Employer assisted the Contractor and made agreement with locals. Contractor was instructed to request quotes from Sub-Contractors for this works. The relocation works started at the end of June and is expected to be finished 1st week of July. After this, the Contractor can start NATM works from Exit portal of Tunnel No. 1.
 23. By March 2021, the section Km 0+650 – Km 0+850 has been handed over to the Contractor, but the portal works did not start right away. The Engineer received the Design details for the Tunnel No. 1 Entrance portal on the 8th April, after which the Engineer had further technical meetings with the Contractor. Tunnel No. 1 Entrance portal Design VO was sent to the Employer and in parallel with the Employer's no objection the piling was allowed to start. However, piling works could not start as the piling machine was not available in June.
 24. At Tunnel No. 2 Entrance Portal, the Contractor continues with the NATM Works, however the progress during the reporting period remains slow, NATM excavated length is 41.50m out of 682m.
 25. The Works at Tunnel No. 2 Exit portal have begun with the installation of piles at the portal. It is expected that piling works will be completed by mid-July with 27 piles to be installed before NATM works begin. The Emergency Exit has been determined and the Contractor submitted the Concept Design to the Engineer on the 16th April with the required LA. No Objection has been given for the Emergency Exit Concept Design and on 5 May 2021, the Engineer gave instruction to the Contractor to submit detailed design. No work ongoing at the Emergency Exit.
 26. At Tunnel No. 3 entrance portal the excavation continued during the month of January 2021. During May 2021 the construction of side beam and plinth beam continued with waterproofing membrane installation. During June 2021, the placement of waterproofing membrane and the concrete works for drainage continued. Also, the chemical grouting was used at some locations to stop water leakage.

27. The Emergency Exit Design for Tunnel No. 3 has been approved and the land acquisition was resolved at the beginning of June 2021. The Detailed Design for Tunnel No 3 Emergency Exit is expected. No work ongoing at the Emergency Exit.
28. Tunnel No. 4 concrete lining and the installation of waterproofing membrane continued of January 2021. Regarding the Emergency Exit, the Contractor continued with the excavation to a length of 55m with 13m remaining. The Engineer received the Cut and Cover Design for the Entrance portal of Tunnel No 4 on 28th April and construction on the foundation works for the C/C section was completed 2nd June 2021. Cut and Cover first arc reinforcement placement began on 18th June and continues.
29. Regarding the Emergency Exit of Tunnel No. 4, the process of the Land Aquisition was resolved in June 2021. Portal slope area of Emergency Exit has been concreted and the drilling for the earth anchors will begin early July.
30. At Tunnel No. 5, the Contractor continued with Mechanical and Electrical Works, utility Box installation and the lean concrete for drainage system etc.
31. Regarding Bridge works, during the reporting period the Contractor continued with the installation of the prestressed beams for Bridge No. 11, however in June a situation arose with the lack of steel and works were delayed by 7 days. It is expected to complete the concreting of the last span at beginning of July and the installation of the beams for Bridge No. 10 is expected to begin on the 10th July.
32. The Contractor continued with the installation of Beams and the construction of parapet walls and walkways on the other Bridges of the project. The Contractor has still not mobilized the required resources which are necessary for the construction of the Bridge walkways and parapet walls. The Engineer continued to remind the Contractor to resource the Project with the necessary manpower and Equipment so as to complete the Project by Dec 31st, 2021.
33. The Contractor continued during April 2021 with some earthworks at Interchanges No. 3 and No. 4, but the progress achieved is not adequate to allow completion of Earthworks by end of September 2021 as planned. Works on the Embankment filling on the soft soil section KM12+100 to KM12+600 has reached 9m. As for remaining stone column area adjacent to Bridge No. 12-13, on 19 March 2021 during the tripartite meeting between the parties, it was decided to replace this small section with additional new Bridge, and the Contractor was requested to provide the proposal. In May, the Contractor was also placing fill for the Embankment at Interchange No. 4, height of embankment reached 8 metres.
34. The progress of the E/W in June increased a little, but the Contractor is lacking Plant and Equipment and Manpower and requires adequate resources to work at multiple locations. The sections between Tunnel No. 4 and Bridge No. 9, and Tunnel No. 3 and Bridge No. 7, the Contractor was instructed to submit the proposals in these high cut sections as soon as possible and has been reminded many times in the Weekly Progress Meetings to submit urgently. The Contractor has stated that all these submittals would be submitted at the beginning of July 2021. The Contractor was reminded that the Designs outstanding have to be submitted in a timely manner to the Engineer as the earthworks at high cut sections need to be carried out in the dry summer months.
35. The Engineer has requested by letters and in Meetings for the Contractor to provide the Design Drawings for the Electrical and Mechanical Works for the Tunnels and the Architectural Drawings for the Service Buildings. The Contractor submitted a MEP schedule delivery of MEP Drawings to the Engineer in January 2021.

36. During May 2021, the Engineer had many meetings with the Contractor's MEP Engineers concerning the Design submissions. The only complete package submitted during May was the Firefighting submission, however, Ventilation, lighting etc. are yet to be delivered. The Engineer instructed the Contractor to submit all the complete packages by the 30th June 2021 including the Civil Works Drawings. The Engineer informed the Contractor of serious concerns that no complete packages except Fire Fighting of the MEP for Tunnel No. 4 has been submitted to date. The Contractor has informed the Engineer that the packages of MEP and the Civil Works Architectural and Structural designs will be submitted early July 2021.

Table 3. Construction progress

N	Work Description	Dimension	Design	Actual	%	Note
Setting Out and Site Clearance						
Basic topography and detailed setting out						
1	For main road	km	14.325	13.125	91.62	
	for ramps and secondary roads	km	10.858	8.287	76.32	
	Site cleaning	ha	76.80	36.37	47.35	
	Cutting trees of more than 0.1 m diameter	piece	1,908.00	6,502.0	340.8	
	Demolition of walls	m3	244.00	509.23	208.00	
	Demolition of buildings	m3	92,700.00	52,775.09	56.93	
Earthworks						
2	Topsoil removal	m3	56,000.00	6,308.81	11.26	
	Removal of unacceptable soil at any level, withdrawal at stockpile/embankment area (according to the instruction)	m3	137,520.24	114,098.88	82.96	
	Arrangement of embankment material to design level	m3	603,734.55	265,680.58	44.00	
	Provision, allocation and compaction of acceptable material from the borrow pit at weak and hollow areas	m3	6,890.00	13,789.63	200,13	
	Filling the embankment with soil excavated from Tunnel	m3	320,519.00	94,198.59	29.38	

Water Culverts and Drainage						
3.1	Cast-in-situ RC culvert - sq. m. 6,00 X 5,0m	piece	10	3	30.00	
	Precast RC culvert - sq.2,500 X 2,50m	piece	3	0	0	
	Precast RC pipe - d= 1,50m	piece	28	4	14.29	
	Precast RC pipe - d= 1,00m	piece	7	0	0	
	Precast RC (double) pipe - d= 2X1,50m	Piece	2	1	50	
	Metal pipe - d=0,50m	Piece	4	0	0	
	Lengthening of Cast-in-situ RC culvert - sq. m. 1,30m X 1,80m	Piece	1	0	0	
	Lengthening of Cast-in-situ RC culvert - sq. m. 1,50m X 1,50m	Piece	1	0	0	
Additional Culvert						
3.2	Cast in situ RC culvert – sq.5,000 X 2,50m	piece	1	1	100	
	Cast in situ RC culvert - sq.5,000 X 4,00m	piece	1	1	100	
Design Variation						
3.3	Cast-in-situ RC culvert - sq.1,500 X 1,20m	piece	1	1	100	
	Cast-in-situ RC round culvert d-1.5m	piece	2	2	100	
	Cast-in-situ RC box culvert Section 2,50m X 2,50m	piece	1	1	100	
Slope Stabilization						
RC Retaining Walls						
4.1	km 0+160 - km 0+400	m	340.00	0	0	
	km 3+941 - km 3+951	m	10.00	0	0	
	km 9+340 - km 9+350	m	10.00	0	0	
	km 9+470 - km 9+ 480	m	10.00	0	0	
	km 11+ 530 - km 11+540	m	10.00	10.00	100	
	Km 0+310 – km 0+377 (CL203)	m	73.92	12.10	13.52	

Gabion Wall						
4.2	km 0+230 - km 0+265	m	35.00	0	0	CL 103
	km 0+850 - km 0+904	m	54.00	0	0	CL 103
	km 12+475 - km 12+725	m	250.00	0	0	
	km 12+814	m	50.00	0	0	Left
	km 12+814	m	48.00	0	0	Right
	km 12+831	m	50.00	0	0	Left
	km 12+831	m	54.00	0	0	Right
	km 13+940 - km 14+120	m	180.00	0	0	
"Terramesh " System						
4.3	"Terramesh " system arrangement	m	2769.00	0	0	
Design Variation						
4.4	Slope stabilization by soil nailing at section km10+102 - km10+340	m	238.00	238.00	100	
4.5	Drilled and filled RC pile wall at section km 11+ 460 - km 11+503	m	43.00	43.00	100	
4.6	Reinforced concrete supporting wall at section km 11+513 - km 11+585	m	72	72	100	
4.7	RC Retaining Wall (CL 203) at Km 0+310 – Km 0+377		73.6	67.0	91.03	
4.8	Drilled and filled RC pile wall at section km 9+244 - km 9+340	m	96	96	100	
4.9	Drilled and filled RC pile wall at section km 9+340 - km 9+440	m	100	100	100	
4.10	Slope strengthening by earth anchors at section km9+440 – km9+520	m	80	80	100	
4.11	RC Retaining Wall at Km0+080-Km0+110	m	38.85	38.85	100	
Bridges						
5	Bored piles: BR-01 - BR-05; BR-07 - BR-12/13; BR-14; BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A	Unit	1,452.00	1,283.00	88.36	

	Pile cap: BR-01 - BR-05; BR-07 - BR-12/13; BR-14: BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A	Unit	132.00	125.00	94.70	
	Column: BR-01 - BR-05; BR-07 - BR-12/13; BR-14: BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A	Unit	272.00	238.00	87.50	
	Crossbar: BR-01 - BR-05; BR-07 - BR-12/13; BR-14: BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A	Unit	115.00	105.00	91.30	Construction in progress
	Back wall and wingwall: BR-01 - BR-05; BR-07 - BR-12/13; BR-14: BR- 03.1: BR-06A; BR-6B; BR- C: BR-6D; BR-08A	Unit	32.00	24.00	75.00	Construction in progress
	Installation RC beams: BR-01 - BR-05; BR-07 - BR-12/13; BR-14: BR- 03.1: BR-06A; BR-6B; BR- 6C: BR-6D; BR-08A	Unit	628	418	66.64	
	Unification of prestressed beams by cast in situ RC concrete slab	m	4,414.0	2,809.0	63.64	Construction in progress
5.1	Construction of cast in situ sidewalk	m	4,414.0	2,809.0	63.64	
5.2	Construction of cast in situ rails	m	4,414	591.0	13.39	
Tunnels						
Tunnel No. 3						
6	Construction of pile wall system at the exit portal				100	
	Construction of pile wall system at the entrance portal	u	101	101	100	
	Soil excavation at the exit portal				100	
	Tunnel excavation and installation temporary lining	m	769.0	769.00	100	
	Construction of permanent lining	m	767.0	505.0	66.0	
Tunnel No. 4						

7	Construction of pile wall system at the exit portal	u	203	203	100	
	Soil excavation at the entrance portal	1000 m3	51.25	51.25	100	
	Tunnel excavation and installation temporary lining	m	843.0	831.0	98.5	
	Construction of permanent lining	m	843.0	831.0	98.6	
Tunnel No. 5						
8	Tunnel excavation and installation of temporary lining				100	
	Portal excavation				100	
	Installation of waterproofing	m2	20,650.0	20,650.0	100	
	Installation perforated PVC pipes	m	1,084.00	1,084.0	100	
	Filter concrete (C12/15)	m3	8.0	8.0	100	
	Cast-in-situ concrete for drainage	m3	20,030.0	20,030	100	
	Installation reinforcement frame	t	323.0	323.0	100	
	Tunnel lining (permanent lining)	m	542	542	100	
	Construction of portal part	m	45	45	100	
	Communication Channel	m	1084	1084	100	
	Arrangement of Drainage System	m	587	587	100	
Tunnel No. 1						
9	Construction of pile system wall at the exit portal	u	131	131	100	
	Tunnel excavation and construction of temporary lining	m	503	4	0,8	
Tunnel No. 2						
10	Construction of pile system wall at the entrance portal	u	119	119	100	
11	Tunnel excavation and construction of temporary support	m	720	36.0	5.0	

12	Construction of pile system wall at the exit portal	u	96	76.0	79.2	
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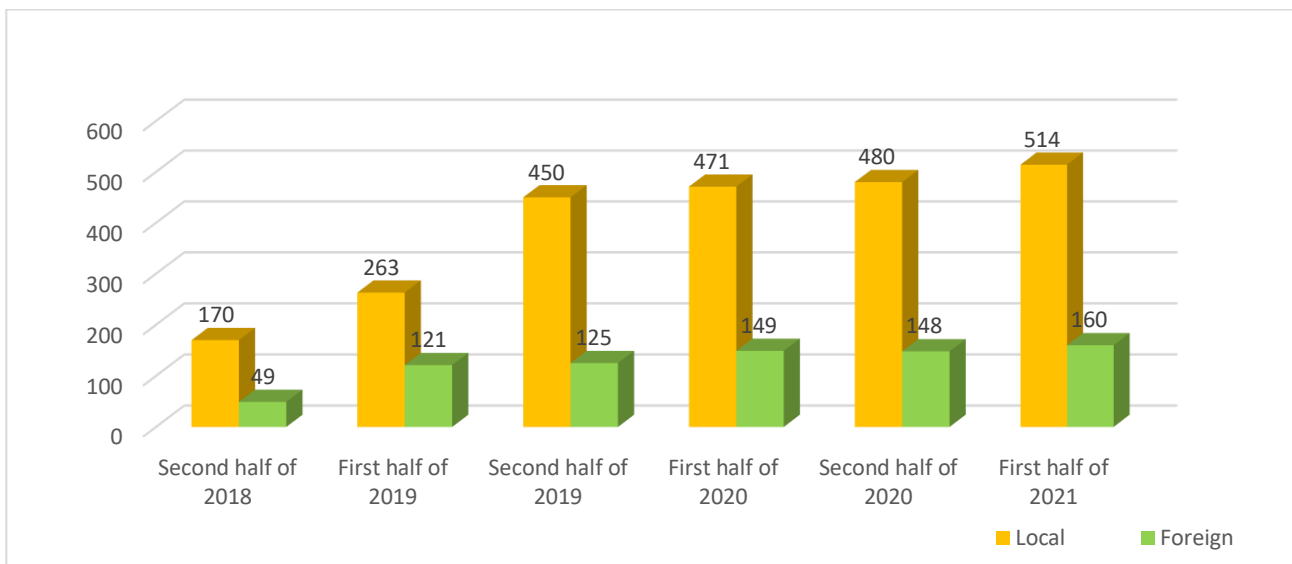
37. In December 2020, the total number of Contractor's personnel was 628, 148 of whom were foreigners and 480 were local (Georgian) employees, in June 2021 the total number of personnel is 674, 160 of whom are foreigners and 514 are locals (**Table 4**).

Table 4. Contractor's personnel as of June 2021

N	POSITION	POLATYOL		SUB-CONTRACTORS		SUM
		Foreign	Local	Foreign	Local	
1	Project Manager	1	0	0	0	1
2	Site Manager	1	0	0	0	1
3	Engineer staff	10	0	0	0	10
4	Technical office	4	2	0	0	6
5	Technicians	7	0	0	0	7
6	Skilled Labour	9	24	0	0	33
7	Unskilled Labour	0	41	0	0	41
8	Driver	1	57	0	49	107
9	Operator	6	20	0	17	43
10	Finance & Administration	7	11	0	0	18
11	HSE Team	2	7	0	0	9
12	Environmental Manager	1	0	0	0	1
13	Foreman	9	0	0	0	9
14	Repairman	19	45	0	0	64
15	Security	0	49	0	0	49
16	Forest Expert	0	0	0	0	0
17	Mechanical Department	8	14	0	0	22
18	Designer	0	0	3	0	3
19	Tunnel works Subcontractor	0	0	17	40	57
20	Blasting works (Subcontractor)	0	0	0	3	3
21	Concrete works (Subcontractor)	0	0	30	72	102

N	POSITION	POLATYOL		SUB-CONTRACTORS		SUM
		Foreign	Local	Foreign	Local	
22	Pile construction team (Subcontractor)	0	0	2	6	8
23	Stone column works (Subcontractor)	0	0	0	0	0
24	Pre-cast beam (Subcontractor)	0	0	18	45	63
25	Catering Service Subcontractor	0	0	5	12	17
	Total	85	270	75	244	674

Figure 2. Contractor's Personnel as of June 2021



2.4 Changes to Project Design and Agreed Construction methods

38. The list of Variations made to the Project is outlined in **Table 5:**

Table 5. List of Variation Orders

Variation No	Description of the Variation Orders
001	Design Change for all Bridges [to D & B by Contractor]
002	Omit PVD and replace with Stone columns
003	Slope stabilization work at tunnel No. 5 portal exit (south side)
004	Excavation with Outside Blasting and Soil Nailing System as slope protection at section KM10+101.905-KM10 +340
005	Transportation of cut trees

006	Replacement of Terramesh System with RC Bored Piles+Wall at section KM 11+460 - KM 11+503
007	Tunnel No. 3 Exit Portal at section KM 6+779 - KM 6+799
008	Replacement of Terramesh System and No 30 & 31 pipe culverts at section KM 11+528 - KM 11+590 with RC retaining wall and box culverts (1.2mx1.5m); Arrangement of additional pipe culvert No 31A (d=1.5m)
009	Design change for Tunnel No.4 North (Entrance) Portal
010	CPT-SPT tests within stone column area
011	Replacement of No. 38 and No.39 RC Box Culverts (section 5.0mX6.0m, Length=90.0m) with Double RC Box Culvert, Length=77.50m (section 5.0mX6.0m) (referred as Culvert No.38/39)
012	Replacement of Teramesh System with Soil Nailing and Shotcrete at sections Km 9+440 - Km 9 473 and Km 9+480 - Km 9+520
013	Additional Geotechnical Investigations
014	Replacement of the Terramesh System with Reinforced Piled Walls at Section Km 9+340 – Km 9+440
015	Replacement of the Terramesh System with Reinforced Piled Walls at Section Km 9+244 – Km 9+340
016	Grouting of Mine Rocks at Tunnel No. 5 - Actual Quantities
017	Design Variation of the Existing Slope Stabilization at Cut and Cover Section of the Tunnel No 4 (km 8+530 - km 8+730; L= 200m)
018	Relocation of Utilities - Gas, Electrical and BOT
019	Tunnel No. 1 Exit Portal - Replacement of Ground Vertical Cementation with Pile System
020	Precast Pipe Culvert No. 27
021	Tunnel No. 2 Entrance Portal - Replacement of Ground Vertical Cementation with Pile System
022	Water Systems Relocation Works at Br. 4, 7 and 9
023	Stone Columns adjacent to Br. 12/13
024	Tunnel No. 2 Exit Cut and Cover and Slope Protection
025	Tunnel No. 5 Service Building Relocation & Culvert No. 28
026	BoQ Item 1019 - Filling Cementation Backwards (Back Grouting) of the Concrete Lining (C 12/15)
027	RC Retaining Wall at the left side of the Design Road CL100 adjacent to Abutment A2 of Bridge No. 10

028	Replacement of vertical Jet Grout and Anchorage of ground with Piling System and RC Retaining Walls at Entrance Portal of Tunnel No. 3 (CI100)
029	RC Retaining Wall at the right side of the Design Road CL100 adjacent to Abutment A1 of Bridge No. 11
030	Combining Bridges No. 12 and No. 13
031	RC Retaining wall at Box Culverts No. 42 & 38-39
032	Construction of RC Retaining Wall for Embankment Slope between A2–P5 of BR-8
033	Water Supply to Makhvilauri and Salibauri
034	Replacement of the Tender Design Embankment, Road Pavement and Drainage Culvert with New Bridge No. 3.2 at section Km 3+060- Km 3+240
035	Replacement of the Terramesh System with RC Retaining Wall adjacent to Tunnel No. 2 (Section Km 2+178.45 – Km 2+215.00)
036	Replacement of the Terramesh System with the Monolithic RC Retaining Wall adjacent to the Bridge No. 03.1 (Section Km 3+362.15 – Km 3+440)
037	Replacement of Terramesh with Retaining wall at km 11+590 - 11+680
038	Design change for Culvert No. 24
039	Design change for Culvert No. 25
040	Tunnel No. 1 Entrance Portal - Replacement of Ground Vertical Cementation with Pile System

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

39. During daily monitoring, the Engineer's environmental specialists Mr. Michael Holics (International), Mr. Tengiz Lagidze (National) and Mr. Giorgi Shiukashvili (National) assess the environmental impacts caused by the Contractors activities and their compliance with the Project's environmental requirements.
40. Where non-compliance is detected (with photo evidence) it is recorded, and the Contractor is informed in writing, in order to take corrective actions. If the Contractor fails to take corrective actions in a timely manner, an Environmental Non-Conformance Reports (ENCR) is issued and sent to the Contractor. The letters sent to the Contractor by the Engineer, where above-mentioned environmental issues are described and the copies of the ENCRs are enclosed in **Annex 5** of this report.
41. The Engineer's environmental specialists prepare monthly, quarterly and semi-annual reports which are submitted to the Roads Department. These reports summarise the Engineer's monitoring of all construction activities and their environmental impact (if any).
42. HSE specialists Mr. Ayaz Abdurahmanov (Local), Mr. Mirza Kokobinadze (Local) and Mr. Fatih Capan (Local) of the Contractor and the Engineer conduct mutual weekly site visits (as required) to monitor the situation on Site.
43. Contractor's environmental specialist Mr. Rashad Kerimov (International) was unable to visit Georgia due to travel restrictions.

3.2 Site Monitorings/Inspections

43. In the first half of 2021 (January–June) the Engineer's specialists Tengiz Lagidze and Giorgi Shiukashvili conducted monitoring of the following Project sites:
 - ▶ Office and accommodation camp of the Contractor;
 - ▶ Construction camp of the Contractor;
 - ▶ Access roads to Bridges and Tunnels;
 - ▶ Tunnel No 1;
 - ▶ Tunnel No 2;
 - ▶ Tunnel No 3;
 - ▶ Tunnel No 4;
 - ▶ Tunnel No 5;
 - ▶ Bridges Nos 3, 4, 5, 6B, 7, 8, 8A, 9, 10, 11, 12/13;
 - ▶ Road sections;
 - ▶ Interchanges;
 - ▶ Precast yard;
 - ▶ Concrete mixing plant
44. The International Environmental Specialist Mr. Michael Holics was unable to mobilise during this time because of COVID travel restrictions. Local environmental specialists share photos, ENCRs and letters with international specialist and mitigation measures and quarterly and semi-annual reports are planned and composed jointly.

3.3 Issues Tracking

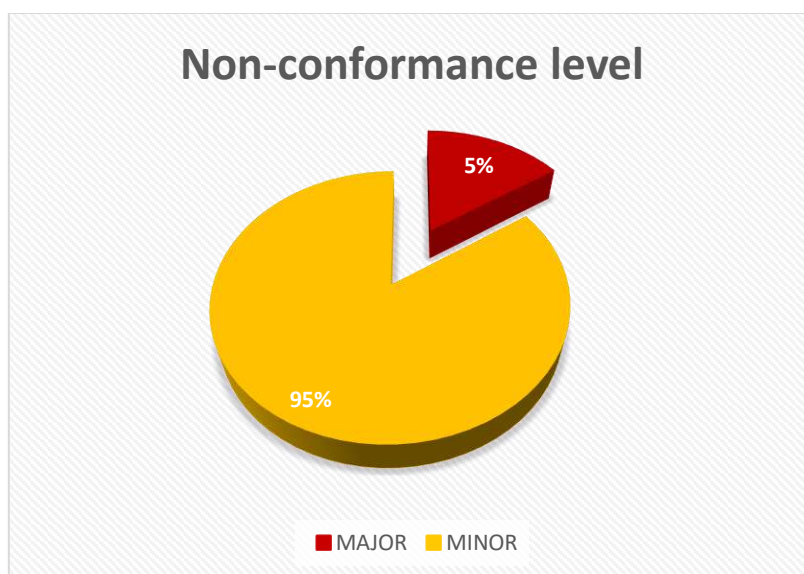
45. Issues are tracked via letters and Non-Conformance notices, which is summarized below in the Table 6 for the current reporting period.

Table 6. Summary of Issues Tracking Activity for Current Period

Total Number of Issues for Project to date	178
Number of Open Issues	0
Number of Closed Issues	178
Percentage Closed	100%
Issues Opened This Reporting Period	20
Issues Closed This Reporting Period	20

46. Further to the **Table 6**, **Figure 3** differentiates environmental issues by level of significance from Minor to Major.

Figure 3. Summary of Environmental Issues by Non-Conformance



47. From the mentioned non-conformances, all 20 are already closed. The latter issues have been followed up by the Environmental Non-Conformance Reports (ENCR) letters of the Engineer with established deadlines for implementation of corrective actions. More details of non-conformances are given in the **Chapter 5.2, Table 15**.
48. Copies of issued ENCR's can be found in **Annex 5**.
- ### 3.4 Non-Conformance Notices
49. **Table 7** lists the non-conformances which occurred during the reporting period.

50. The Contractor was informed about the pending environmental problems and an action plan was prepared to implement corrective actions and timeline for mitigation of non-conformances.

Table 7. Environmental non-conformances for January-June 2021 reporting period

Affected Project Component	Date	Raised Issues	Mitigation Measures	Timeframe for Completion of Mitigation Measure	Current Progress
T4 portal 1	January 2021	Sedimentation basins are overfilled and fails to perform their function. Running water and water bed are polluted ENCR 95	Timely cleaning is required	January	Completed
T4 portal 1	January 2021	Household waste, food containers ENCR 96	Waste should be cleaned	January	Completed
T3 portal 2	January 2021	Bad housekeeping ENCR 97	Construction site should be cleaned and arranged properly	January	Completed
T3 portal 2	January	Empty oil barrels are stored incorrectly without covering ENCR 98	Should be covered	January	Completed
T3 portal 2	January	Oil spill on the ground from damaged vehicle. ENCR 99	Drip tray should be arranged. Contaminated soil should be removed from construction site	January	Completed
Plant yard	February	Household waste, food containers ENCR 100	Waste should be cleaned	February	Completed
Plant yard	February	Violation of hazardous waste/materials storage rules ENCR 101	Materials should be covered and stored accordingly	February	Completed

Affected Project Component	Date	Raised Issues	Mitigation Measures	Timeframe for Completion of Mitigation Measure	Current Progress
Precast yard	February	Household waste, food containers ENCR 102	Waste should be cleaned	February	Completed
T4 portal 1	February	Household waste, food containers ENCR 103	Waste should be cleaned	February	Completed
T4 portal 1	February	Sedimentation basins are overfilled ENCR 104	Sedimentation basins should be cleaned	February	Completed
Km12-Km13	March	Household waste, food containers ENCR 105	Waste should be cleaned	March	Completed
Interchange N3	March	Household/construction waste ENCR 106	Waste should be cleaned	March	Completed
Br.4 P6-P7	April	Plastic Waste ENCR 107	Site should be cleaned from waste	April	Completed
Br.8 P2-P3	April	Plastic Waste ENCR 108	Site should be cleaned from waste	April	Completed
Br.8 A1	April	Household waste ENCR 109	Site should be cleaned from waste	April	Completed
Br.1 A1	April	Oil spill ENCR 110	Contaminated soil needs to be disposed according to the rules. Training is required.	April	Completed
Batching plant	May	Fuel station barrier has a hole and leaks oil ENCR 111	The station should be well insulated	May	Completed
Batching plant	May	Violation of hazardous waste/materials	Should be stored properly	May	Completed

Affected Project Component	Date	Raised Issues	Mitigation Measures	Timeframe for Completion of Mitigation Measure	Current Progress
		storage rules ENCR 112			
T2 Portal 2	June	Contaminated water flows on the slope ENCR 113	Sedimentation basin should be arranged	June	Completed
Km12-Km13	June	Household waste, food containers ENCR 114	Waste should be removed	June	Completed

51. There are no non-conformances pending from the previous Semi-Annual Environmental Monitoring Report.
52. While the Contractor responds to the Engineer’s recommendations regarding environmental mitigation measures, and generally implements the required measures in a timely manner, they do not take a pro-active approach to environmental management. If such an approach were adopted, many of the environmental issues from the Project could be avoided without the need to constantly take corrective actions.

3.5 Trends

53. Most of the violations by the Contractor are related to the spread of plastic waste by the workers at site. The Contractor delivers food to the workers using plastic lunch boxes which is very commonly observed at various sites. The latter violations are gradually fixed and after the Engineer’s observations, the Contractor takes mitigation measures to resolve the issues.
54. Compared to the last reporting period number of issued ENCRs is significantly decreased. Thirty five ENCRs were issued in the second half of 2020 and 20 ENCRs in the first half of 2021, and the nature of the violations remains the same (plastic food containers). The damage caused to the environment by oil products has been significantly reduced, as the control over construction equipment increased and consequently the oil spill from damaged equipment decreased.

3.6 Unanticipated Environmental Impacts or Risks

55. Taking into account the unanticipated event of outbreak of pandemic infectious disease of COVID 19 causing large number of people sick and reported deaths, travel restrictions, lockdowns, workplace hazard and facility closures, CC updated SEMP by including one section related to COVID-19 and “COVID-19 Outbreak Management Plan”.

56. A total of 56 people became infected with the coronavirus 10 Engineers and 46 of the Contractor's workers. Urgent measures were taken according to the recommendations of the Ministry of Health of Georgia and the World Health Organization. Non of the cases was lethal, all recovered and returned to work.

4 RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Contractor’s Monitoring Conducted during Current Period

57. During the reporting period the Contractor engaged an independent laboratory “Batumis Tskali” Ltd. to conduct chemical-bacteriological analysis of water samples from rivers near the Project. The location of water sampling sites and parameters measured is in accordance with the SSEMP. The Georgian version as well as English translation of the lab results can be found in **Annex 3**. The results of water quality tests are within Georgian Maximum Permissible Concentrations as well as with IFC standards/requirements (see **Table 8**).

4.1.2 Water Quality Monitoring

Table 8. Chemical and-bacteriological analysis of river water

N	Water Quality Parameters Measured	Unit	Akhalsheni River Km7+500	Benze River Km4+700	Salibauri River Km5+300	Gantiadi River Km3+490	Makhinjauri River	Makhvilauri River Km11+500	GEO Maximum Allowable Levels
1	Chlorides	mg/l	12.82	12.74	9.8	10.78	12.0	13.84	-
2	Sulphates	mg/l	4.50	5.0	5.0	4.0	5.0	5.0	-
3	Poliphosphate	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	5
4	Nitrate	mg/l	0.17	0.21	0.26	0.610	0.41	0.28	25
5	Alkalinity	mg/l	1.42	0.70	1.04	0.660	1.11	0.66	-
6	Lead	mg/l	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	5
7	Zinc	mg/l	0.04	0.05	0.04	0.05	0.06	0.03	5

4.1.3 Noise, Air Quality and Vibration Monitoring

58. The contractor hired an independent laboratory LEPL “Laboratory Research Centre” to conduct noise (**Annex 3**) and air quality analysis. Monitoring results do not exceed the national norms for atmospheric pollution as well as IFC/WB standards (**Tables 9-10**).

59. Main source of vibration in the Project is tunnel blasting. During blasting activities, noise and vibration measured from different receptors (residential houses). The Contractor uses tunnel blasting sub-contractors equipment to monitor vibration.

Vibration monitoring data are given in **Annex 4**. According to the approved SSEMP noise is measured on a quarterly basis or according to the engineers requirement in case of any claim or where there is likely to be high noise.

60. Blasting time is strictly controlled and it is allowed only during daytime to avoid disturbance of local residents and comply with requirements of SSEMP and EIA. Also all residents are informed about blasting time in advance by text messages and phone calls. Explosives and discharge power are reduced to minimise and adverse effects on the sensitive receptors due to vibration or noise. According to the international standards, the maximum allowable PPV (Peak Particle Velocity) value is 25, and according to the EIA of Batumi Bypass Road Project it is limited to 5. As the discharge force is unchanged, vibration testing is conducted at different locations and ranged within PPV 0-5 and are within the limits set for the Project.

Table 9: Noise measurement results

Place of measurement	Features	Average (dB) 15.03.2020 (day time)
Contractor's campsite	Intermittent noise	47.6
Makhvilauri	Intermittent noise	40.9
Gorodoki	Intermittent noise	48.1
Gantiadi	Intermittent noise	43.0
Benze	Intermittent noise	44.5
Salibaure	Intermittent noise	45.4
Makhinjauri	Intermittent noise	46.1

61. Certified laboratory LEPL has measured the parameters of atmospheric air at the Contractor's office/accommodation camp and several construction sites according to the construction activities. Results of tests are enclosed as **Annex 3** to the report. The result of air quality tests is 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 10**).

Table 10. Air quality parameters measured at the Contractor's office/accommodation camp

No.	Parameter Measured	Measurement result (mg/m ³) maximal unit	Georgian Standard	IFC Guideline Value (Limit (mg/m ³))	Name of method
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1	Nitrogen Dioxide (NO ₂)	N/A	0.85	0.2 / 1 Hour 0.04 /1 Year	Tech.Reg.N435-13
2	Hydrogen Sulfide (H ₂ S)	N/A	0.008	N/A	Tech.Reg.N435-13
3	Sulfure Dioxide (SO ₂)	0.01	0.5	0.5 / 10 min	Tech.Reg.N435-13
4	Carbon Monoxide CO	N/A	5.0	N/A	Tech.Reg.N435-13
5	Dust (solid particles)	0.21	0.3	(*IFC does not have a standard for "inorganic dust". Instead IFC applies standards for PM _{2.5} and PM ₁₀). PM ₁₀ – 0.02/1 Year 0.05/24 Hour PM ₂ , 5-0.01/1 Year 0.025/24 Hour	GOST P ISO9096-06
6	Hydrocarbons (C _n H _m)	0.01	–	N/A	Tech.Reg.N435-13

4.2 Summary of Monitoring Outcomes

62. To regularly monitor and control the parameters for air quality, level of noise and vibration, the Contractor has purchased the equipment for measuring level of noise and vibration. The Contractor has concluded the agreement with the Independent Laboratory, based on which the Independent Laboratory provides such services as measuring noise level, air and water quality.
63. The results of the monitoring show that the existing mitigation measures are effective and Air, Noise and Water quality testing results meet the norms established by the legislation of Georgia and IFC norms.

4.3 Material Resources Mobilisation

64. As for June 2021 the following materials were mobilized on site by the Contractor:

Table 11. Material mobilization

N	MATERIALS	UNIT	QUANTITY
1	Gravel from Quarry Site	m ³	352507.4
2	Reinforcement	T	1808.78
3	Cement	T	6469.08
4	Sand	T	-
5	Additives	T	124
6	Explosives	T	0

65. For storing and utilization scrap material the Contractor is using its construction campsite. Periodicaly scrap material it is sold to different companies according to the market price of metal.

4.4 Waste Management

66. The Contractor has prepared a 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 (see **Table 12**).

Table 12 – Waste management

No.	Domestic/Hazardous Waste & Sewage	Estimated Volume	Storage Area	Licensed Company
1	Wastewater, including sewage	11 m ³	Camp septic tanks	LTD “Batumi Tskali”
2	Domestic waste	40 m ³	Camp and Plant Yard wastebaskets	“Sandasuftaveba” LTD
3	Used tires	50 pcs	Workshop designated area	“Sandasuftaveba” LTD
4	Used batteries	10 pcs	Workshop designated area	“Sandasuftaveba” LTD
5	Hydraulic and used oil	745 litre	Oil Change designated area	“Sandasuftaveba” LTD
6	Paints and other chemicals	0,1 m ³	Workshop designated area	“Sandasuftaveba” LTD

7	Chemical additive tanks	20 pcs	Plant yard designated area	"Sandasuftaveba" LTD
8	Oil drums	18 pcs	Plant yard designated area	LTD "San – Dasuftaveba
9	Used food oil	3 litre	Camp separate wastebaskets	LTD "San – Dasuftaveba
10	Bulbs, cartridges	1 pcs	Camp separate wastebaskets	LTD "San – Dasuftaveba
11	Medical waste	0 m ³	Camp separate wastebaskets	LTD "San – Dasuftaveba

67. The main source that generates a large amount of waste is earthworks, specifically: excavation of the soil and rock material excavated from the tunnels. Part of the material is used for temporary service roads and excess material is disposed to the approved dumpsite.
68. The dumpsite area which is located at Airport and Kakhaberi settlement is agreed with the Ministry of Finance and Economy of Ajara and a copy of the agreement was submitted to the Engineer (**Annex 7**).

4.5 Health and Safety

69. The Contractor has appointed an accident prevention officer Mr. Ayaz Abdurahmanov at the Site on a full time bases, who is responsible for maintaining safety and protection against accidents. He is available on site every day.
70. The Engineer has mobilised new local HS specialist – Mr. Papuna Afxazava who replaced Mr. Mikheil Bagauri.

4.5.2 COVID-19

- 71. Due to COVID-19 the Engineer has taken the following measures to avoid the spread among its employees:**
1. HSE has conducted the informational meeting with Staff to inform them about the virus and its threats, as well as preventive measures to be taken to avoid contracting COVID-19;
 2. All necessary materials including Thermometers, Hand Sanitizers, Anti-Bacterial hand wash and face masks were acquired;
 3. Hand sanitizer was installed at the entrance for all the visitors entering the Office;
 4. Thermo screening is ensured for the visitors as well as Questionnaire is filled in;
 5. Temperature Registry was created for all the Employees;
 6. Employees over 65 were working from home;
 7. Number of personnel working from Office has been reduced by way of working in shifts;
 8. Weekly Progress and HSE meetings were conducted fortnightly with minimum number of participants to ensure physical distance of 2 meters;
- These changes have not affected the supervision of the works on site.

72. Measures taken by the Contractor against COVID-19:

1. General campsite, offices, dining rooms and kitchen entrances has been provided with related notice boards and posters;
2. Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company;
3. All welfare facilities such as hand wash stations, toilets, dining rooms, kitchen etc. has been provided with necessary liquid soap and medical alcohol;
4. All kitchen staff has been supplied with necessary protective equipment;
5. All contractor and sub-contractor workers were continuously instructed about COVID-19;
6. All the vehicles have been disinfected;
7. Drivers and workers have been instructed to use protective mask;
8. Infrared thermometer has been provided at entrance of Contractor's camp.



Hygiene products (soap, napkins, and hand sanitizers, including individual use) have been provided at frequent movement areas



Hygiene products (soap, napkins, and hand sanitizers, including individual use) have been provided at frequent movement areas



General camp, offices, dining rooms and kitchen entrances has been provided with related notice boards and posters



General camp, offices, dining rooms and kitchen entrances has been provided with related notice boards and posters



General camp, offices, dining rooms and kitchen entrances has been provided with related notice boards and posters



General camp, offices, dining rooms and kitchen entrances has been provided with related notice boards and posters



Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company



Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company



Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company



Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company



Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company



Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company

4.5.3 Community and Worker Health and Safety

73. Descriptions of the incidents and accidents that occurred during the reporting period are described in below **Table 13**.

Table 13. Incidents and Accidents Log

N	DATE	DESCRIPTION	MEASURES TAKEN	FOLLOW UP
1	16.10.2020	<p>During the transportation of gravel in the night shift, from the quarry to km 12+800, dump truck with P/N: EE-547-ZZ driven by Amiran Mikeladze (Polatyol driver) made a contact with OHPL. The dump truck drove under the OHPL with raised tipper bed, that caused an incident. As a result of this, the OHPL was damaged and later the dump truck lost the contact with OHPL. Driver did not receive any injury and was lucky to survive. Only dump truck tires were damaged due to the electric shock.</p>	<p>According to the investigation, the reason of incident was driver's negligence. For some reason, driver did not lower the tipper bed during the transportation, that resulted in the Near Miss incident.</p>	<p>The Contractor was instructed on control measures necessary for prevention of similar Near Miss incident in the future:</p> <p>Toolbox talk with all the drivers targeting OHPL hazards.</p> <p>Provision of warning signs or goal posts at all OHPL locations, where required.</p>
2	17.04.2021	<p>During the transportation of gravel in the night shift, from Chorokhi quarry the gravel storage area, dump truck driver Oleg Mukutadze fell asleep and collided with the Polat dump truck, driver by Zaza Kalandadze, who also was transporting gravel from the same Chorokhi quarry. As a result of the incident, none of drivers received any injury but both dump trucks were damaged significantly.</p> <p>Traffic police was immediately informed about the incident and arrived on the scene later.</p>	<p>As a result of the incident investigation, The Contractor has developed control measures and submitted Incident Investigation Report No. 007 but was instructed to resubmit report due to inaccurate information and ineffective control measures. Resubmitted Incident Investigation Report provided following control measures: Alcohol test and toolbox talk with the drivers prior to start of night shift. Permanent and close monitoring of the transportation process, during the night shift by</p>	<p>Report provided following control measures: Alcohol test and toolbox talk with the drivers prior to start of night shift.</p> <p>Permanent and close monitoring of the transportation process, during the night shift by transport supervisor.</p>

N	DATE	DESCRIPTION	MEASURES TAKEN	FOLLOW UP
			transport supervisor.	

74. Trends related to the incidents and accidents are outlined below in **Table 13**.

Table 14. Health and Safety Trends

Incident	Reporting Period (January – June 2021)	Project Total to Date
Near Miss	1	7
Accident Minor	0	12
Accident Major	1	4
Incident Minor	0	9
Incident Major	0	4

4.6 Contractor's Training

74. According to requirements of SSEMP, toolbox meetings were carried out with all site workers and mixer drivers on health and safety awareness and on protection of environmental value and during the different construction process and milestones on 17 February, 20 March, 03 June and 18 June 2021.
75. According to requirements of SSEMP and Community Liaison Plan (CLP), public liaison meetings were conducted at Makhinjauri on 12 January 2021 and on 17 June 2021.
76. The general discussion topic each liaison was mainly about the information and instruction of different stage of construction activities, noise, vibration, grievances etc.

4.7 Grievance Redress Mechanism (GRM) and Complaints

77. A total of 182 persons have submitted 11 categories of grievances to the GRC out of which 102 grievances have been resolved as of 30 April 2021. People now mostly (63 Nos.) applied for damage to their assets caused by construction activities out of which 21 have been completed. 39 Aps request inclusion of their residential structures or land plots in the acquisition list, out of which 26 cases are finalized. 28 APs express dissatisfaction due disturbance by noise/vibration and dust out of which 13 cases completed. 11 cases are from the tunnel N2, N3 and tunnel N4 areas. Cases from Tunnel blasting zones will be finalized upon completion tunnel construction activities.
78. For other details please see **Table 15** below.

Table 15. Summary of the grievances by category

N	NATURE OF GRIEVANCES	NO OF TOTAL GRIEVANCES	RESULT		REMARKS
			Measures Taken	Resolved	
1	Inclusion in LARP	39	13	26	
2	Compensation Rate	12	0	12	
3	Registration/ownership status	7	0	7	
4	Damage to infrastructure/Assets	63	42	21	16 cases are from tunnel blasting zones.
5	Disturbance by noise/vibration/dust/flood	28	15	13	9 cases are from tunnel blasting zones.
6	Crop Compensation	3	0	3	
7	Loss of access road	10	7	3	
8	Recruitment/Employment	1	1	0	
9	Road upgrading	1	1	0	
10	Loss of Business	1	0	1	
11	Other	17	1	16	
	Total	182	80	102	

5 FUNCTIONING OF THE SSEMP

5.1 SSEMP Review

79. SSEMP 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. In March 2019 the Contractor submitted an updated SSEMP to the Engineer which considered ADB, RD and Engineer's comments. 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.
80. As per Engineer's request (Letter Ref. 5015001/2/1138 dated 15 November 2019), the Contractor updated the SSEMP in 18.04.2021 and additionally prepared EMPs for Stone Column area, N2 Concrete Batching Plant and separate EMPs for each tunnel and bridge.

6 GOOD PRACTICE

6.1 Good Practice

81. At most sites the Contractor arranged temporary waste bins.
82. The Contractor pays good attention to improvement of personnels' hygienic conditions in accommodation campsite.
83. During dry weather, the Contractor ensures regular watering of local roads to lower dust emission.
84. The Contractor arranges traffic warning signs at crossing section with local roads to improve safety.
85. The Contractor arranged flagmens where the Project road crosses local roads.

7 SUMMARY AND RECOMMENDATIONS

7.1 Summary

- 86. During the reporting period, work carried out by the Contractor for Environmental Protection was assessed “mostly” positively by the Engineer.
- 87. Information provided in the Contractor’s monthly and quarterly reports still needs further improvement.

7.2 Recommendations

- 88. More attention should be paid to timely waste disposal from the construction site – during Q3, 2021.
- 89. Contractor and Engineer should continue to conduct periodic measurements of noise, vibration, air quality, etc – during Q3-Q4 2021.

8 ANNEXES

Annex 1. Project Photos

Photo 1 Tunnel 3 Oil spill



Photo 2 T4 contaminated watercourse



Photo 3 Tunnel 4 Sedimentation basin



Photo 4 T4 contaminated watercourse



Photo 5 Tunnel 3 Improper oil storage



Photo 6 Tunnel 3 Bad housekeeping



Photo 7 Tunnel 3 Improper oil storage



Photo 8 Tunnel 3 Bad housekeeping



Photo 9 Bridge 1 Foundation works



Photo 10 Bridge 3 Concrete works



Photo 11 Laboratory, concrete waste



Photo 12 Plant yard Metal scrap



Photo 13 T4 Plastic waste



Photo 14 T2



Photo 15 Bridge 6 Waste burn



Photo 16 Tunnel 4 Bad housekeeping



Photo 17 T4 Sedimentation basing



Photo 18 Precast yard oil storage



Photo 19 Precast yard Plastic waste



Photo 20 Plant yard Hazardous waste



Photo 21 Used tires



Photo 22 Surface water



Photo 23 T4 Waste burn



Photo 24 Precast yard cut down trees



Photo 25 Km12-km13 Waste



Photo 26 Km14 Mud



Photo 27 Km12-Km13 Waste



Photo 28 Km14 Dirty road



Photo 29 Bridge 3 Concrete waste



Photo 30 Km14 Dirty road



Photo 31 Office camp



Photo 32 T1 Damaged bamboo



Photo 33 T2 Sedimentation Trap



Photo 34 T2 Metal Scrap



Photo 35 T3 Polluted water



Photo 36 Surface Water



Photo 37 Pre-cast Yard



Photo 38 Interchange No.4 Polluted Road



Photo 39 Polluted Road



Photo 40 Laboratory yard



Photo 41 T2 Leaked concrete



Photo 42 Br.10-11 Stone Bulks



Photo 43 Tunnel 3 Construction waste



Photo 44 Tunnel 3 Construction waste



Photo 45 Tunnel 3 Construction waste



Photo 46 T3 reinforcement



Photo 47 T2 metal scrap



Photo 48 T3 metal scrap



Photo 49 T3 metal scrap



Photo 50 T3 unsanitary in the toilets



Photo 51 Waste incineration



Photo 52 Extract of material at quarry



Photo 53 T2 sedimentation trap



Photo 54 T3 sedimentation trap



Photo 55 Construction camp, Empty metal barrels



Photo 56 Pre-cast yard, overfilled containers



Photo 57 Pre-cast yard, cut tree timbers



Photo 58 Pre-cast yard, cut tree timbers



Photo 59 Surface Water



Photo 60 Surface Water



**Photo 61
SurfaceWater**



**Photo 62 T1 Cut Bamboo
waste**



Photo 63 Laboratory



Photo 64 T3 Oil spill



Photo 65 Oil spill



Photo 66 Br. 8 Waste



Photo 67 T3 Waste



Photo 68 T3 Waste



Photo 69 T5 Scrap



Photo 70 T5 Waste



Photo 71 T5 Waste



Photo 72 Precast yard scrap



Photo 73 Precast yard waste



Photo 74 Plant yard used tires



Photo 75 Precast yard used tires



Photo 76 T3 Chemical waste



Photo 77 T3 Chemical waste containers



Photo 78 T2 Cement water



Photo 79 Cut tree timbers



Photo 80 Cut tree branches



Photo 81 Cut Trees



Photo 82 Tree branches



Photo 83 Scrap



Photo 84 Scrap



Annex 2. Air Quality and Noise monitoring results

2.1 Atmospheric air test

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The Protocol of the Test №657

Date: 16.03.2021

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia.

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Garodoki 7+400 km 15.03.2021 14:35

Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 15.03.2021 15:20

Place and date of performance of laboratory activity: Batumi, Garadoki 7+400 km 15.03.2021 and Lepi – Laboratory Research Center, Batumi, Svishevski st No.80 15.03.2021-16.03.2021

Sample № (Identification)	Research parameter	Measurement result	Method of research
Appeal №:74 Registration №657	Nitrogen dioxide (NO ₂)	0.1mg/m ³	Tech. Reg .435-13
	Hydrogen sulfide (H ₂ S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO ₂)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0.20 mg/kg	ISO 9096-2017
	Hydrocarbons (CnHm)	0.02 mg/m ³	Tech. Reg .435-13

The result spreads only on the presented sample

Responsible performer specialist:

J. Tsetskhladze

Head of the Testing Laboratory:

E. Antonishvili



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The Protocol of the Test №653

Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapi Sanayi Ve Ticaret” in Georgia. Date: 16.03.2021
Description of the samples, condition: Atmospheric air
The place of sampling, date: Batumi, Benze region km 4-750 15.03.2021 12.25
Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.
Date of sample entry in the laboratory: 15.03.2021 15:20
Place and date of performance of laboratory activity: Batumi, Benze region km 4-750 15.03.2021 and Lepl – Laboratory Research Center, Batumi Svishevski st. No.80 15.03.2021-16.03.2021

Sample № (Identification)	Research parameter	Measurement result	Method of research
Appeal №70 Registration №653	Nitrogen dioxide (NO ₂)	0.1mg/m ³	Tech. Reg .435-13
	Hydrogen sulfide (H ₂ S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO ₂)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0.22 mg/m ³	ISO 9096-2017
	Hydrocarbons (CnHm)	0.01 mg/m ³	Tech. Reg .435-13

The result spreads only on the presented sample




Responsible performer specialist:



J. Tsetskhladze




Head of the Testing Laboratory:

E. Antonishvili

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<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapı Sanayi Ve Ticaret” in Georgia.</p>		<p>Date 16.03.2021</p>	
<p>Description of the samples, condition: Atmospheric air</p>			
<p>The place of sampling, date: Batumi, Makhvilauri region 2+250 km 15.03.2021 11:58</p>			
<p>Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p>			
<p>Date of sample entry in the laboratory: 15.03.2021 15:20</p>			
<p>Place and date of performance of laboratory activity: Batumi, Makhvilauri region 2+250 km 15.03.2021 and Lepl – Laboratory Research Center, Batumi Swishevski st No.80, 15.03.2021 -16.03.2021</p>			
<p>Sample № (Identification) Appeal №69 Registration №652</p>	<p>Research parameter</p> <p>Nitrogen dioxide (NO₂)</p> <p>Hydrogen sulfide (H₂S)</p> <p>Sulfur dioxide (SO₂)</p> <p>Carbon oxide (CO)</p> <p>Dust</p> <p>Hydrocarbons (C_nH_m)</p>	<p>Measurement result</p> <p>Not detected</p> <p>Not detected</p> <p>0.1mg/m³</p> <p>Not detected</p> <p>0.18 mg/m³</p> <p>0.01 mg/m³</p>	<p>Method of research</p> <p>Tech. Reg. 435-13</p> <p>Tech. Reg. 435-13</p> <p>Tech. Reg. 435-13</p> <p>Tech. Reg. 435-13</p> <p>ISO 9096-2017</p> <p>Tech. Reg. 435-13</p>
<p>The result spreads only on the presented sample</p>			
<p>Responsible performer specialist:</p>			<p>J. Tsitskhladze</p>
<p>Head of the Testing Laboratory:</p>			<p>E. Antonishvili</p>
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<p>The Protocol of the Test №651</p>			
		<p>Date: 16.03.2021</p>	
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapı Sanayi Ve Ticaret“ in Georgia.</p>			
<p>Description of the samples, condition: Atmospheric air</p>			
<p>The place of sampling, date: Batumi, Makhinjauri Settlement 0+550 15.03.2021 11:27</p>			
<p>Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p>			
<p>Date of sample entry in the laboratory: 15.03.2021 15:20</p>			
<p>Place and date of performance of laboratory activity: Batumi Makhinjauri Settlement 0+550km 15.03.2021 and LepI – Laboratory Research Center, Batumi Svishevski st No.80- 15.03.2021-16.03.2021</p>			
<p>Sample № (Identification)</p>	<p>Research parameter</p>	<p>Measurement result</p>	<p>Method of research</p>
<p>Appeal №:68 Registration №651</p>	<p>Nitrogen dioxide (NO₂)</p>	<p>0,1mg/m³</p>	<p>Tech. Reg. 435-13</p>
	<p>Hydrogen sulfide (H₂S)</p>	<p>Not detected</p>	<p>Tech. Reg. 435-13</p>
	<p>Sulfur dioxide (SO₂)</p>	<p>0,1mg/m³</p>	<p>Tech. Reg. 435-13</p>
	<p>Carbon oxide (CO)</p>	<p>Not detected</p>	<p>Tech. Reg. 435-13</p>
	<p>Dust</p>	<p>0,17 mg/m³</p>	<p>ISO 9096-17</p>
	<p>Hydrocarbons (CnHm)</p>	<p>0,02 mg/m³</p>	<p>Tech. Reg. 435-13</p>
<p>The result spreads only on the presented sample</p>			
<p>Responsible performer specialist:</p>			<p>J. Tsetskhladze</p>
<p>Head of the Testing Laboratory:</p>			<p>E. Antonishvili</p>
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<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.</p>		<p>Date: 16.03.2021</p>																								
<p>Description of the samples, condition: Atmospheric air</p>																										
<p>The place of sampling, date: Batumi, Batching Plant: 15.03.2021 13:40</p>																										
<p>Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL - Laboratory Research Center, who is responsible for sampling and transportation.</p>																										
<p>Date of sample entry in the laboratory: 15.03.2021 15:20</p>																										
<p>Place and date of performance of laboratory activity: Batumi, Batching Plant: 15.03.2021 and LepI - Laboratory Research Center, Batumi, Svishevski st No.80 015.03.2021 -16.03.2021</p>																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Sample № (Identification)</th> <th style="width: 25%;">Research parameter</th> <th style="width: 25%;">Measurement result</th> <th style="width: 25%;">Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="6" style="vertical-align: top;">Appeal №:73 Registration №656</td> <td>Nitrogen dioxide (NO₂)</td> <td style="text-align: center;">0.1mg/m³</td> <td>Tech. Reg .435-13</td> </tr> <tr> <td>Hydrogen sulfide (H₂S)</td> <td style="text-align: center;">Not detected</td> <td>Tech. Reg .435-13</td> </tr> <tr> <td>Sulfur dioxide (SO₂)</td> <td style="text-align: center;">0.1mg/m³</td> <td>Tech. Reg .435-13</td> </tr> <tr> <td>Carbon oxide (CO)</td> <td style="text-align: center;">Not detected</td> <td>Tech. Reg .435-13</td> </tr> <tr> <td>Dust</td> <td style="text-align: center;">0.27 mg/m³</td> <td>ISO 9096-2017</td> </tr> <tr> <td>Hydrocarbons (CnHm)</td> <td style="text-align: center;">0.02 mg/m³</td> <td>Tech. Reg .435-13</td> </tr> </tbody> </table>				Sample № (Identification)	Research parameter	Measurement result	Method of research	Appeal №:73 Registration №656	Nitrogen dioxide (NO ₂)	0.1mg/m ³	Tech. Reg .435-13	Hydrogen sulfide (H ₂ S)	Not detected	Tech. Reg .435-13	Sulfur dioxide (SO ₂)	0.1mg/m ³	Tech. Reg .435-13	Carbon oxide (CO)	Not detected	Tech. Reg .435-13	Dust	0.27 mg/m ³	ISO 9096-2017	Hydrocarbons (CnHm)	0.02 mg/m ³	Tech. Reg .435-13
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	Sulfur dioxide (SO ₂)	0.1mg/m ³	Tech. Reg .435-13																							
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13																							
	Dust	0.27 mg/m ³	ISO 9096-2017																							
	Hydrocarbons (CnHm)	0.02 mg/m ³	Tech. Reg .435-13																							
<p>The result spreads only on the presented sample</p>																										
<p>Responsible performer specialist:</p>			<p>J. Tsetskhladze</p>																							
<p>Head of the Testing Laboratory:</p>			<p>E. Antonishvili</p>																							
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 The Protocol of the Test №655

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia. Date: 16.03.2021
 Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Opizrebi 97 camp area 15.03.2021 13-25

Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 15.03.2021 15:20

Place and date of performance of laboratory activity: Batumi Opizrebi 97 camp area 15.03.2021 and Lepi – Laboratory Research Center, Batumi Svishevskiy st No 80 – 15.03.2021 -16.03.2021

Sample № (Identification)	Research parameter	Measurement result	Method of research
Appeal №72 Registration №655	Nitrogen dioxide (NO ₂)	Not detected	Tech. Reg. 435-2013
	Hydrogen sulfide (H ₂ S)	Not detected	Tech. Reg. 435-2013
	Sulfur dioxide (SO ₂)	0.1mg/m ³	Tech. Reg. 435-2013
	Carbon oxide (CO)	Not detected	Tech. Reg. 435-2013
	Dust	0.21 mg/m ³	ISO 9096-2017
	Hydrocarbons (CnHm)	0.01 mg/m ³	Tech. Reg. 435-2013

The result spreads only on the presented sample

Responsible performer specialist:




J. Tsetskhladze

Head of the Testing Laboratory:



E. Antonishvili

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<p>აკრედიტაციის მოწმობა /ACREDITATION CERTIFICATE - GAC-TL-0219 სსიპ იმოსიკე 17015:2017/2018 06.04.2020-20.11.2021 The Protocol of the Test №654</p>			
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.</p>		<p>Date: 16.03.2021</p>	
<p>Description of the samples, condition: Atmospheric air</p>			
<p>The place of sampling, date: Batumi, 12+400 15.03.2021 13:00</p>			
<p>Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p>			
<p>Date of sample entry in the laboratory: 15.03.2021 15:20</p>			
<p>Place and date of performance of laboratory activity: Batumi, 12+400km and Lepl – Laboratory Research Center, Batumi Svishevskis No.80 15.03.2021 -16.03.2021</p>			
<p>Sample № (Identification) Appeal №:71 Registration №654</p>	<p>Research parameter</p> <p>Nitrogen dioxide (NO₂)</p> <p>Hydrogen sulfide (H₂S)</p> <p>Sulfur dioxide (SO₂)</p> <p>Carbon oxide (CO)</p> <p>Dust</p> <p>Hydrocarbons (CnHm)</p>	<p>Measurement result</p> <p>0.1mg/m³</p> <p>Not detected</p> <p>0.1mg/m³</p> <p>Not detected</p> <p>0.25 mg/m³</p> <p>0.02 mg/m³</p>	<p>Method of research</p> <p>Tech. Reg. 435-2013</p> <p>Tech. Reg. 435-2013</p> <p>Tech. Reg. 435-2013</p> <p>Tech. Reg. 435-2013</p> <p>ISO 9096-2017</p> <p>Tech. Reg. 435-2013</p>
<p>The result spreads only on the presented sample</p>			
<p>Responsible performer specialist:</p>			<p>J. Tsetskhladze</p>
<p>Head of the Testing Laboratory:</p>			<p>E. Antonishvili</p>
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2.2 Noise test

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<p>აკრედიტაციის სიწმინდა /ACREDITATION CERTIFICATE - GAC-TL-0219 სტ. იმპორტი 17025-2017/2018 06.04.2020-20.11.2021</p>																																			
<p>The Protocol of the Test №650</p>																																			
<p>Date: 16.03.2021</p>																																			
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia</p>																																			
<p>Description of the samples, condition: Noise level determination</p>																																			
<p>Place and date of performance of laboratory activity: Batumi Opizrebi Str.97 15.03.2021</p>																																			
<table border="1"> <thead> <tr> <th>Measurement area</th> <th>Features</th> <th>Test result (Sounds max. level 1.A max. db A</th> <th>Test result</th> </tr> </thead> <tbody> <tr> <td>Makhinjauri Settlement 0+550 11:15</td> <td>Intermittent noise</td> <td>46,1 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Makhinjauri Settlement 2+250 11:45</td> <td>Intermittent noise</td> <td>43,0 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Benze 4+750 12:20</td> <td>Intermittent noise</td> <td>44,5 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Batumi 12+400 12:55</td> <td>Intermittent noise</td> <td>40,9 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Camp 13:20</td> <td>Intermittent noise</td> <td>45,5 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Batching Plant 13:45</td> <td>Intermittent noise</td> <td>47,6 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Gorodoki 7+400 14:30</td> <td>Intermittent noise</td> <td>48,1 db</td> <td>GOST 23337-14</td> </tr> </tbody> </table>				Measurement area	Features	Test result (Sounds max. level 1.A max. db A	Test result	Makhinjauri Settlement 0+550 11:15	Intermittent noise	46,1 db	GOST 23337-14	Makhinjauri Settlement 2+250 11:45	Intermittent noise	43,0 db	GOST 23337-14	Benze 4+750 12:20	Intermittent noise	44,5 db	GOST 23337-14	Batumi 12+400 12:55	Intermittent noise	40,9 db	GOST 23337-14	Camp 13:20	Intermittent noise	45,5 db	GOST 23337-14	Batching Plant 13:45	Intermittent noise	47,6 db	GOST 23337-14	Gorodoki 7+400 14:30	Intermittent noise	48,1 db	GOST 23337-14
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Annex 3. Water quality results

<p>საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, სვისhevskის ქ. №80 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, SWISHEVSKY ST. №80.6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p>																											
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<p>The Protocol of the Test №766</p>																													
<p>Date: 25.03.2021</p>																													
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret“ in Georgia.</p>																													
<p>Description of the samples, condition : River water 2L in Plastic Bottle</p>																													
<p>Place of taking the examination sample (s), date: st. Gorodok settlement 7 + 500 section. 23.03.2021 11:20 -11:25</p>																													
<p>Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.</p>																													
<p>Date of taking the examination sample (s) 23.03.2021 13:50</p>																													
<p>Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski st No.80 23.03.2021 -25.03.2021</p>																													
<table border="1"> <thead> <tr> <th>Sample № (identification)</th> <th>Research parameter</th> <th>Measurement result</th> <th>Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Registration №766 Protocol of the Test №85</td> <td>Chlorides</td> <td>12.82 mg/l</td> <td>P,II 52. 24. 407-2006</td> </tr> <tr> <td>Sulfates</td> <td>4.5 mg/l</td> <td>GOST 4389-72</td> </tr> <tr> <td>Polyphosphate</td> <td><0,01 mg/l</td> <td>GOST 18309-2014</td> </tr> <tr> <td>Nitrates</td> <td>0,17mg/l</td> <td>GOST 33045-2014</td> </tr> <tr> <td>Alkalinity</td> <td>1.42 mg/l</td> <td>GOST 31957-2012</td> </tr> <tr> <td>The Lead</td> <td>< 0,001 mg/l</td> <td>GOST 31870-2012</td> </tr> <tr> <td>Zinc</td> <td>0,04 mg/l</td> <td>GOST 31870-2012</td> </tr> </tbody> </table>	Sample № (identification)	Research parameter	Measurement result	Method of research	Registration №766 Protocol of the Test №85	Chlorides	12.82 mg/l	P,II 52. 24. 407-2006	Sulfates	4.5 mg/l	GOST 4389-72	Polyphosphate	<0,01 mg/l	GOST 18309-2014	Nitrates	0,17mg/l	GOST 33045-2014	Alkalinity	1.42 mg/l	GOST 31957-2012	The Lead	< 0,001 mg/l	GOST 31870-2012	Zinc	0,04 mg/l	GOST 31870-2012			
Sample № (identification)	Research parameter	Measurement result	Method of research																										
Registration №766 Protocol of the Test №85	Chlorides	12.82 mg/l	P,II 52. 24. 407-2006																										
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	Polyphosphate	<0,01 mg/l	GOST 18309-2014																										
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	Alkalinity	1.42 mg/l	GOST 31957-2012																										
	The Lead	< 0,001 mg/l	GOST 31870-2012																										
	Zinc	0,04 mg/l	GOST 31870-2012																										
<p>Results are given only for the sample (s) submitted.</p>																													
<p>Responsible person :</p>		<p>N. Ghatjava Q. Tsertsvadze E. Tsvadze L. Verulidze</p>																											
<p>Head of Exam Lab:</p>		<p>E. Antonishvili</p>																											
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<p>The Protocol of the Test №767</p>			
<p>Date: 25.03.2021</p>			
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.</p>			
<p>Description of the samples, condition : River water 2L in Plastic Bottle</p>			
<p>Place of taking the examination sample (s), date: Salibauri settlement 5 + 300 section, 23.03.2021 11:40 -11:45</p>			
<p>Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure", Resolution of the Government of Georgia No. 26, January 3, 2014.</p>			
<p>Date of taking the examination sample (s): 23.03.2021 13:50</p>			
<p>Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski st No.80 23.03.2021 -25.03.2021</p>			
<p>Sample № (Identification) Registration №767 Protocol of the Test №86</p>	<p>Research parameter</p>	<p>Measurement result</p>	<p>Method of research</p>
	Chlorides	9,8 mg/l	PD 52. 24. 407-2006
	Sulfates	5,0 mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,26 mg/l	COST 33045-2014
	Alkalinity	1,04 mg/l	COST 31957-2012
	The Lead	<0,001 mg/l	COST 31870-2012
	Zinc	0,04 mg/l	COST 31870-2012
<p>Results are given only for the sample (s) submitted.</p>			
<p>Responsible person :</p>	 <p>N.Ghatjva Q.Tsertsvadze E.Tsivadze L.Verulidze</p>		
<p>Head of Exam Lab:</p>	 <p>E. Antonishvili</p>		
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სოფლის მეურნეობის სამინისტრო.
სსიპ ლაბორატორიული კვლევითი
ცენტრი
ქ.ბათუმი 6010. სვიშევსკის ქ. №80
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The Protocol of the Test №768

data: 25.03.2021

Name of the customer and contact information; Branch of foreign enterprise „JSC Polat Yof Yapi Sanayi Ve Ticaret“ in Georgia.

Description of the samples, condition : River water 2L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi Benze settlement 4 + 700 section., 23.03.2021 12:05 -12:10

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of taking the examination sample (s): 23.03.2021 13:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No.80 23.03.2021 -25.03.2021

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №768 Protocol of the Test №87	Chlorides	12,74 mg/l	PD 52. 24. 407-2006
	Sulfates	5,0 mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,21 mg/l	COST 33045-2014
	Alkalinity	0.70 mg/l	COST 31957-2012
	The Lead	<0,001 mg/l	COST 31870-2012
	Zinc	0,05 mg/l	COST 31870-2012

Results are given only for the sample (s) submitted.

Responsible person :

Handwritten signatures and initials in blue ink.

N.Ghatjava
Q.Tsertsvadze
E.Tsivadze
L.Verulidze

Head of Exam Lab:



E. Antonishvili

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The Protocol of the Test №769 Data: 25.03.2021

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.

Description of the samples, condition : River water 2L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi Gantiadi 3 + 900 section. 23.03.2021 12:35-12:40

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of taking the examination sample (s): 23.03.2021 13:50

Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski st No.80 23.03.2021 -25.03.2021

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №769 Protocol of the Test №88	Chlorides	10.78 mg/l	РД 52. 24. 407-2006
	Sulfates	4.0 mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,61 mg/l	COST 33045-2014
	Alkalinity	0,66 mg/l	COST 31957-2012
	The Lead	0,001 mg/l	COST 31870-2012
	Zinc	0,05 mg/l	COST 31870-2012

Results are given only for the sample (s) submitted.




Responsible person :

 N.Ghatjava
 Q.Tsertsvadze
 E.Tsivadze
 L.Verulidze

Head of Exam Lab:

 E. Antonishvili

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<p>The Protocol of the Test №770</p>																													
<p>Date 25.03.2021</p>																													
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.</p>																													
<p>Description of the samples, condition : River water 2L in Plastic Bottle</p>																													
<p>Place of taking the examination sample (s), date: Makhinjauri 1 + 950 section, 23.03.2021 13:00 13:05</p>																													
<p>Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.</p>																													
<p>Date of taking the examination sample (s): 23.03.2021 15:50</p>																													
<p>Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski st No.80 23.03.2021 -25.03.2021</p>																													
<table border="1"> <thead> <tr> <th>Sample № (Identification)</th> <th>Research parameter</th> <th>Measurement result</th> <th>Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Registration №770 Protocol of the Test №89</td> <td>Chlorides</td> <td>12.74 mg/l</td> <td>ПД 52. 24. 407-2006</td> </tr> <tr> <td>Sulfates</td> <td>5,0 mg/l</td> <td>COST 4389-72</td> </tr> <tr> <td>Polyphosphate</td> <td><0,01 mg/l</td> <td>COST 18309-2014</td> </tr> <tr> <td>Nitrates</td> <td>0,4 mg/l</td> <td>COST 33045-2014</td> </tr> <tr> <td>Alkalinity</td> <td>0,93 mg/l</td> <td>COST 31957-2012</td> </tr> <tr> <td>The Lead</td> <td><0,001 mg/l</td> <td>COST 31870-2012</td> </tr> <tr> <td>Zinc</td> <td>0,045 mg/l</td> <td>COST 31870-2012</td> </tr> </tbody> </table>	Sample № (Identification)	Research parameter	Measurement result	Method of research	Registration №770 Protocol of the Test №89	Chlorides	12.74 mg/l	ПД 52. 24. 407-2006	Sulfates	5,0 mg/l	COST 4389-72	Polyphosphate	<0,01 mg/l	COST 18309-2014	Nitrates	0,4 mg/l	COST 33045-2014	Alkalinity	0,93 mg/l	COST 31957-2012	The Lead	<0,001 mg/l	COST 31870-2012	Zinc	0,045 mg/l	COST 31870-2012			
Sample № (Identification)	Research parameter	Measurement result	Method of research																										
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	The Lead	<0,001 mg/l	COST 31870-2012																										
	Zinc	0,045 mg/l	COST 31870-2012																										
<p>Results are given only for the sample (s) submitted.</p>																													
<p>Responsible person :</p>	 <p>N.Gharjava Q.Tsertsvadze E.Tsivadze L.Verulidze</p>																												
<p>Head of Exam Lab:</p>	 <p>E. Antonishvili</p>																												
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<p>1/1</p>																													

საქართველო
 აჭარის ავტონომიური რესპუბლიკის
 სოფლის მეურნეობის სამინისტრო
 სსიპ ლაბორატორიული კვლევითი ცენტრი
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GEORGIA
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აკრედიტაციის მოწმობა / ACCREDITATION CERTIFICATE - GAC-IL--0219 სსიპ ცხვ/ცკ 17025:2017:2018 06.04.2020-20.11.2021
 The Protocol of the Test: №771

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia. Date: 25.03.2021

Description of the samples, condition: River water 2l. in Plastic Bottle

Place of taking the examination sample (s), date: st. Makhinjauri region Krasnovi St 5 km 0+550 23.03.2021 13:20-13:25

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of taking the examination sample (s) 23.03.2021 13:50

Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Swishevski st No.80 23.03.2021 -25.03.2021

Sample № (identification)	Research parameter	Measurement result	Method of research
Registration №771 Protocol of the Test №90	Chlorides	12.0 mg/l	PD 52. 24. 407-2006
	Sulfates	5.0mg/l	GOST 4389-72
	Polyphosphate	<0,01 mg/l	GOST 16309-2014
	Nitrates	0,41 mg/l	GOST 33045-2014
	Alkalinity	1.11 mg/l	GOST 31957-2012
	The Lead	< 0,001 mg/l	GOST 31870-2012
	Zinc	0,06 mg/l	GOST 31870-2012

Results are given only for the sample (s) submitted.

Responsible person:  N. Ghatjva
 Q. Tsertsvadze
 E. Tsvadze
 L. Verulidze

Head of Exam Lab:  E. Antonishvili



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საქართველო
აჭარის ავტონომიური რესპუბლიკის
სოფლის მეურნეობის სამინისტრო,
სსიპ ლაბორატორიული კვლევითი
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The Protocol of the Test №765

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia. Date: 25.03.2021
Description of the samples, condition : River water 2L in Plastic Bottle
Place of taking the examination sample (s), date: Batumi, Makhvilauri settlement, 11 + 500 section, 23.03.2021 11:00 11:05
Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.
Date of taking the examination sample (s): 23.03.2021 13:50
Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski st No.80 23.03.2021 -25.03.2021

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №765 Protocol of the Test N84	Chlorides	13.84 mg/l	PD 52. 24. 407-2006
	Sulfates	5,0 mg/l	GOST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,28 mg/l	COST 33045-2014
	Alkalinity	0.66 mg/l	COST 31957-2012
	The Lead	< 0,001 mg/l	COST 31870-2012
	Zinc	0,03 mg/l	COST 31870-2012

Results are given only for the sample (s) submitted.

Responsible person :


N.Ghatjava
Q.Tsertsvadze
E.Tsvadze
L.Verulidze



Head of Exam Lab:



E. Antonishvili

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Annex 4. Vibration Test Results

	Project Batumi Bypass Road Section km-1+000—km- 13+325	
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SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 31/08/2020 Time of blast: 10:43:15 BlastNumber: ST02

Seismograph Make and Model: InstanTel, Micromate Serial Number: UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn Record Duration: 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location Nodar GORGADZE

Witness (If Any) : No witness

Additional comments Blasting location at KM 6+116 Tunnel №3 MIC=19,62

Seismograph was installed at predetermined distance of L= 184 meters from the blasting location.

The ground vibration was measured within the limits .(No vibration was observed)

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

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV *instead / Fakhri Ayaz*

Company : POLATYOL & MAPA JV

TUNNEL SOUTH ENTRANCE BLASTING REPORT

Blasting for tunnel excavation		
GENERAL		
Blast Date	31/8/2020	Time :08.30 am, 20.30 pm.
Portal	North <input type="checkbox"/>	South
Tunnel	North <input type="checkbox"/>	South <input type="checkbox"/> X
Rock Mass Class		
TUNNEL FACE BLASTING		
	KM 6+115	
BLASTING AREA	66	m ²
LENGTH	2500	mm
WIDTH	13000	mm
DEPTH	6000	m
DRILLING EQUIPMENT		
TYPE OF MACHINE	Atlas Copco jumbo	
DRILL STEEL LENGTH	4.3	m.
MAX HOLE LENGTH	2	m
NUMBER OF BOOMS	2	no
DRILLING DATA		
HOLE DIAMETER	45	mm.
CUT TYPE	V - CUT	
LARGE HOLE	45	mm
NUMBER OF HOLES	107	no
HOLE LENGTH	2500	mm
DRILLED METERS	267.5	drm
ADVANCE		mm
PULL LENGTH		%
ROCK VOLUME PER ROUND	165	m ³
SPECIFIC DRILLING	1.82	drm/m ³
DRILLING TIME		
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	75	min
SETUP+DISMOUNT+REMOVE	70	min
DRILLING CYCLE	220	min
CHARGING TIME		
CHARGE TOTAL	170	kg
SPECIFIC CHARGE	1.03	kg/m ³
CHARGING CREW	4	men
SETUP TIME	45	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	75	min/round
BLASTING PATTERN		

LOCATION : TUNNEL 3, SOUTH ENTRANCE

DATE : 31/8/2020

FACE CHAINAGE : KM 6+116

TYPE – 2 BLASTING APPLICATION DETAILS

EXPLOSIVE PROPERTIES : ORICA MAGNUM 365 (38 x 400 mm. 545 gr.)
 FACE AREA : 66 M2
 TARGETED CUBING : 165 M3
 TOTAL NUMBER OF HOLES : 93 NOS
 TOTAL EXPLOSIVE : 169.0 KG
 SPECIFIC CHARGE : 1.02 KG/M2

EXPLOSIVE DISTRIBUTION IN THE FACE

NO 1	30 unit	0.545 kg	16.35
NO 4	30 unit	0.545 kg	16.35
NO 7	30 unit	0.545 kg	16.35
NO 10	30 unit	0.545 kg	16.35
NO 13	30 unit	0.545 kg	16.35
NO 15	30 unit	0.545 kg	16.35
NO 14	30 unit	0.545 kg	16.35
NO 18	32 unit	0.545 kg	17.44
NO 25	32 unit	0.545 kg	17.44
NO 30	36 unit	0.545 kg	19.62

MIC=19.62 kg

TOTAL 168.95 kg

NAME: Erkan Ozdogan *Yast.*
 Bora CEBTLIYER

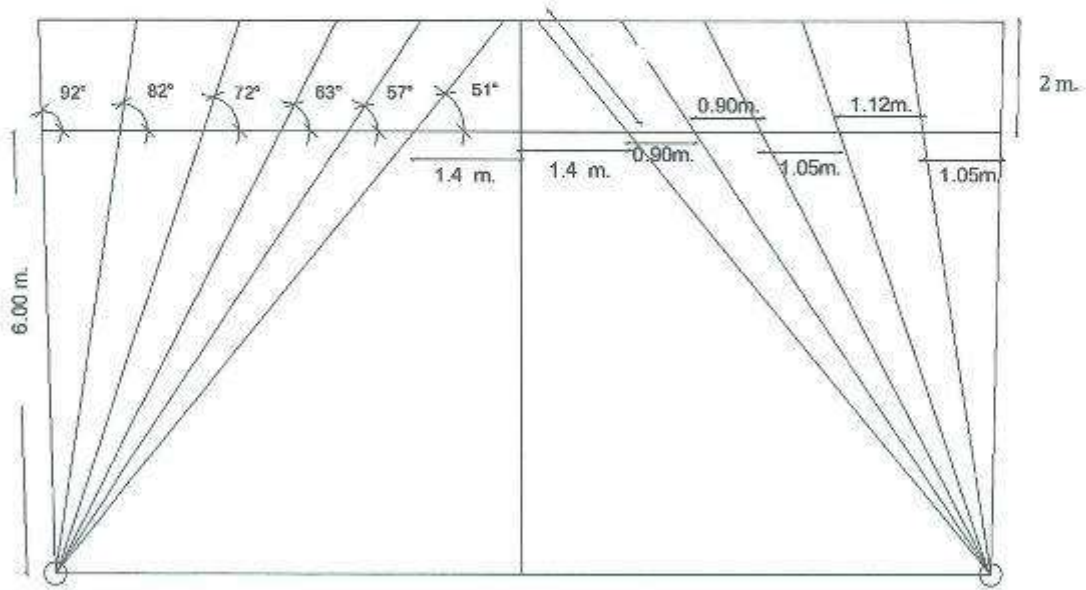
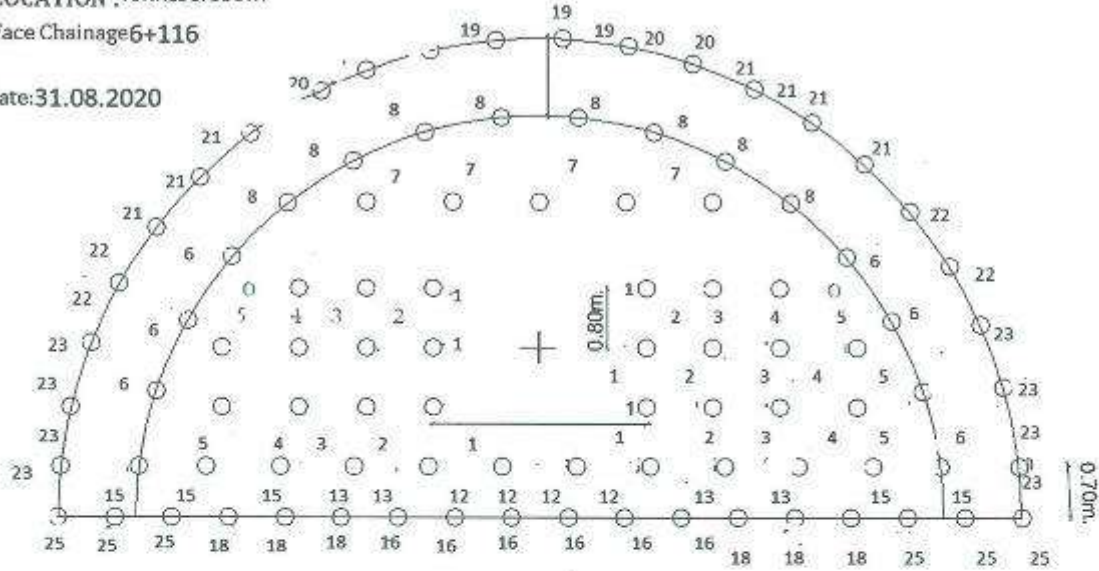
JOB TITLE : Tunnel Engineer

SIGNATURE 

LOCATION : TUNNEL 3. SOUTH

Face Chainage 6+116

Date: 31.08.2020




VIEWPOINT

DRILLING PATTERN

VIEWPOINT

NAME: Eskan Ozdogan Inst.
Bora ÖBÜTÜNER

JOB TITLE: TUNNEL ENGINEER

SIGNATURE: 

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 31/08/2020 **Time of blast:** 10:33:43 **BlastNumber:** ST01

Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location Nodar GORGADZE

Witness (If Any) : No witness

Additional comments Blasting location at KM 6+276 Tunnel №3 MIC=9,81

Seismograph was installed at predetermined distance of L= 58 meters from the blasting location.

The ground vibration was measured within the limits .

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

Signature of seismograph operator:

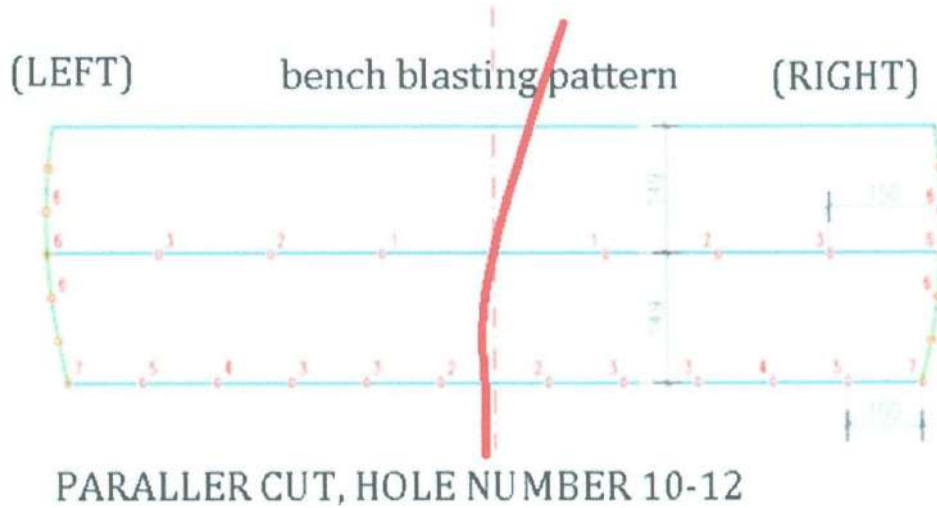
Printed name : Ayaz ABDURAHMANOV *instead / Gorbh GPR*

Company : POLATYOL & MAPA JV

Date: 31/8/2020

LOCATION : TUNNEL 3, EXIT, BENCH EXCAVATION

BENCH CHAINAGE : KM 6+276 LEFT



Name: Erkan Ozdogan, Tunnel Engineer

Inst Bora OĞUTLİER

Sign:



Date/Time Tran at 10:33:43 August 31, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.7 Volts
File Name UM14790_20200831103343.IDFW

Notes

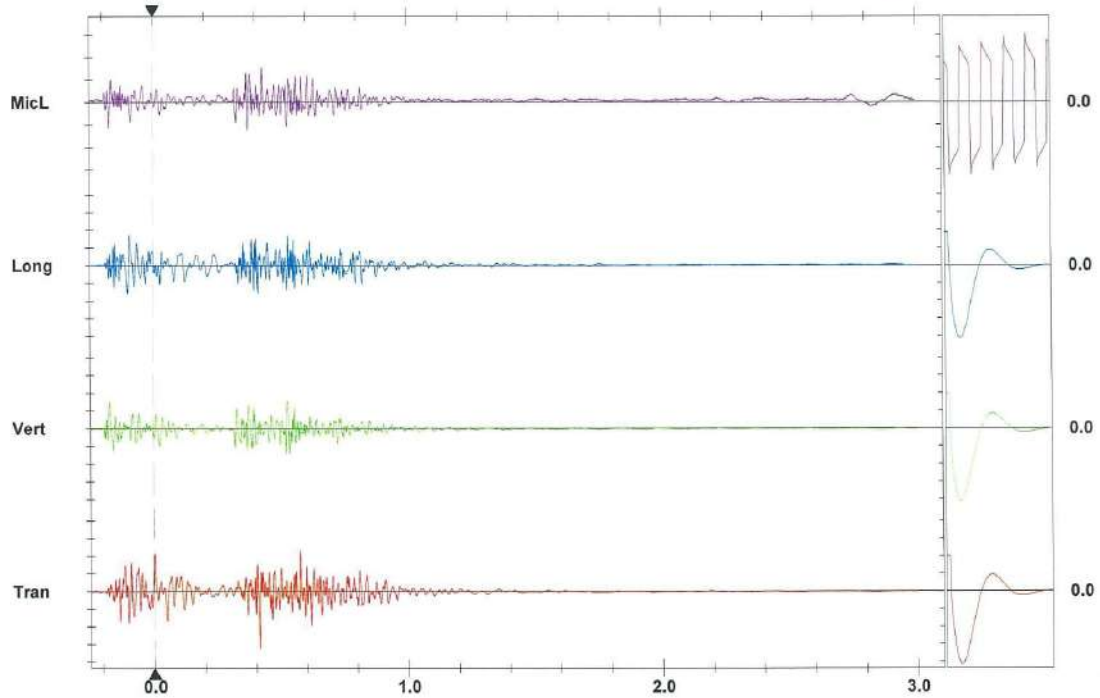
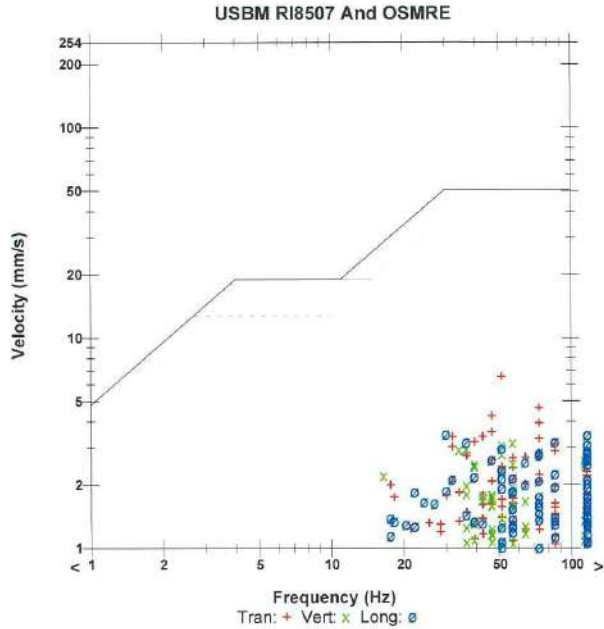
Location: BATUMI BYPASS ROAD PROJECT
Client: ROADS DEPARTMENT OF GEORGIA
User Name: Ayaz Abdurahmanov
General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes

Microphone Linear Weighting
PSPL 1.583 pa.(L) at 0.430 sec
ZC Freq 64 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1251 mv)

	Tran	Vert	Long	
PPV	6.518	3.161	3.468	mm/s
ZC Freq	51	57	30	Hz
Time (Rel. to Trig)	0.414	0.527	-0.094	sec
Peak Acceleration	0.318	0.212	0.224	g
Peak Displacement	0.016	0.017	0.014	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.1	7.3	Hz
Overswing Ratio	4.4	5.0	4.8	

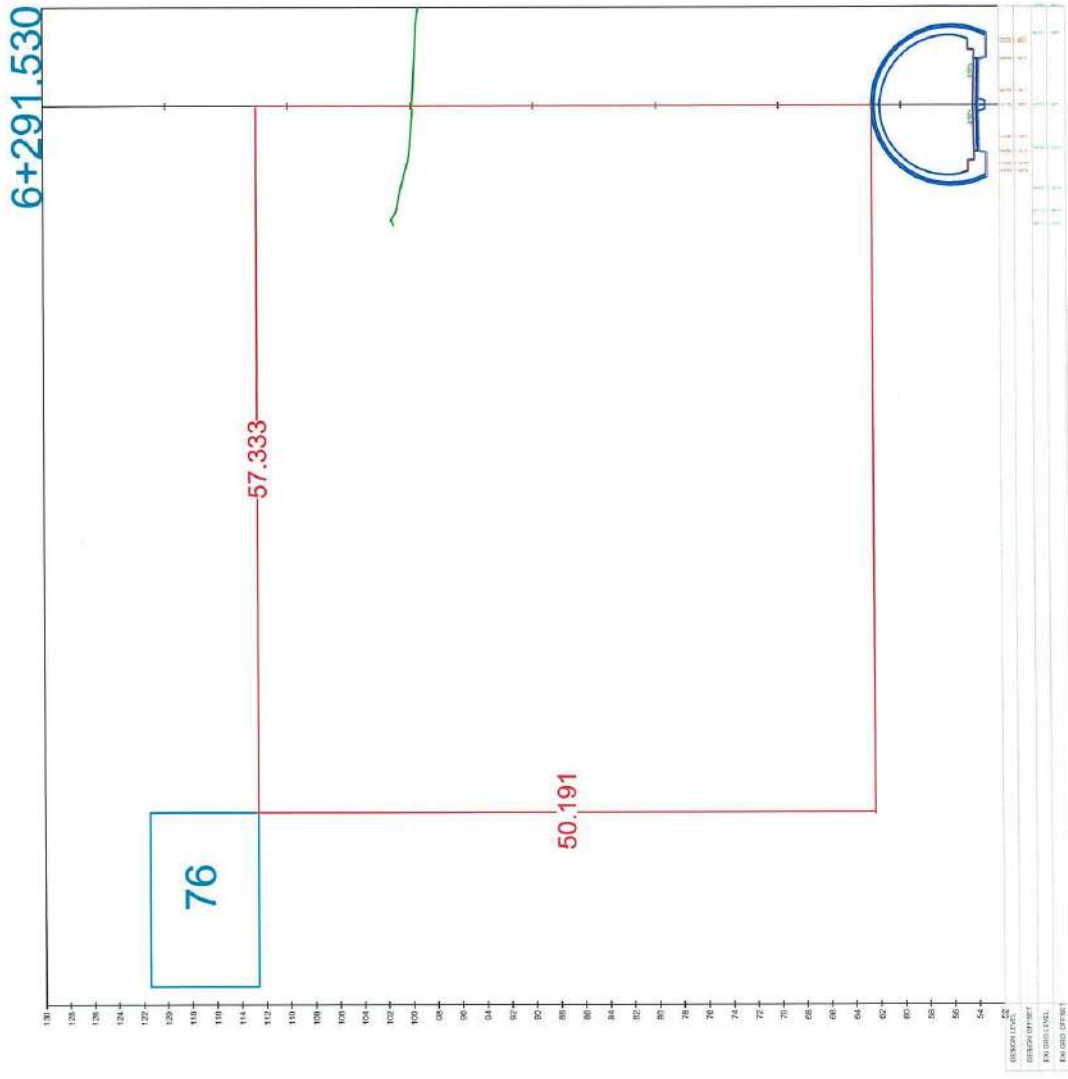
Peak Vector Sum 6.655 mm/s at 0.414 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
 Trigger =

Nodar Gorgadze

13
31.08.20



TUNNEL 3 EXIT BLASTING REPORT

Blasting for tunnel bench excavation		
GENERAL		
Blast Date	31/8/2020	Time :08.30 am. 20.30 pm
Portal	North <input type="checkbox"/>	South
Tunnel Bench Excavation	North <input type="checkbox"/>	South <input type="checkbox"/> X
Rock Mass Class		
TUNNEL BENCH BLASTING	KM 6+276	LEFT
BLASTING AREA	18	m ²
LENGTH		mm
WIDTH	6500	mm
DEPTH	3000	m
DRILLING EQUIPMENT		
TYPE OF MACHINE	Atlas Copco jumbo	
DRILL STEEL LENGTH	3+3	m.
MAX HOLE LENGTH	5	m
NUMBER OF BOOMS	2	no
DRILLING DATA		
HOLE DIAMETER	45	mm
CUT TYPE	paralel cut	
LARGE HOLE	45	mm
NUMBER OF HOLES	12	no
HOLE LENGTH	4000	mm
DRILLED METERS	60	drm
ADVANCE		mm
PULL LENGTH		%
ROCK VOLUME PER ROUND	97.5	m ³
SPECIFIC DRILLING	0.62	drm/m ³
DRILLING TIME		
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	40	min
SETUP+DISMOUNT+REMOVE	60	min
DRILLING CYCLE	120	min
CHARGING TIME		
CHARGE TOTAL	39.24	kg
SPECIFIC CHARGE	0.40	kg/m ³
CHARGING CREW	3	men
SETUP TIME	40	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	60	min/round
BLASTING PATTERN		
Attached		

	Project Batumi Bypass Road Section km-1+000—km- 13+325	 <small>Member of the Surbana Jurong Group</small>
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LOCATION : TUNNEL 3 , SOUTH EXIT DATE :31/8/2020

BENCH CHAINAGE : KM 6+276 LEFT

TYPE – 2 BLASTING APPLICATION DETAILS

EXPLOSIVE PROPERTIES : ORICA MAGNUM 365 (38 x 400 mm. 545 gr.)
FACE AREA : 18 M2
TARGETED CUBING : 97.5 M3
TOTAL NUMBER OF HOLES 12 NOS
TOTAL EXPLOSIVE 39.24 KG
SPECIFIC CHARGE 0.40 KG/M2


EXPLOSIVE DISTRIBUTION IN THE FACE

NO 4	18 unit	0.545 kg	9.81
NO 7	18 unit	0.545 kg	9.81
NO 10	18 unit	0.545 kg	9.81
NO 13	18 unit	0.545 kg	9.81

MIC=9.81 KG

TOTAL 39.24

NAME: Erkan Ozdogan ^{Inst.}
Bora ÖBÜTLÜLER
JOB TITLE : Tunnel Engineer

SIGNATURE 

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 07/09/2020 **Time of blast:** 17:42:33 **BlastNumber:** ST01

Seismograph Make and Model: Instantel,Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location Revaz TSETSKHLADZE –Nuri TSETSKHLADZE

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 8+359 Tunnel №4 MIC=9,81

Seismograph was installed at predetermined distance of L= 42 meters from the blasting location.

The ground vibration was measured within the limits

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

Signature of seismograph operator:

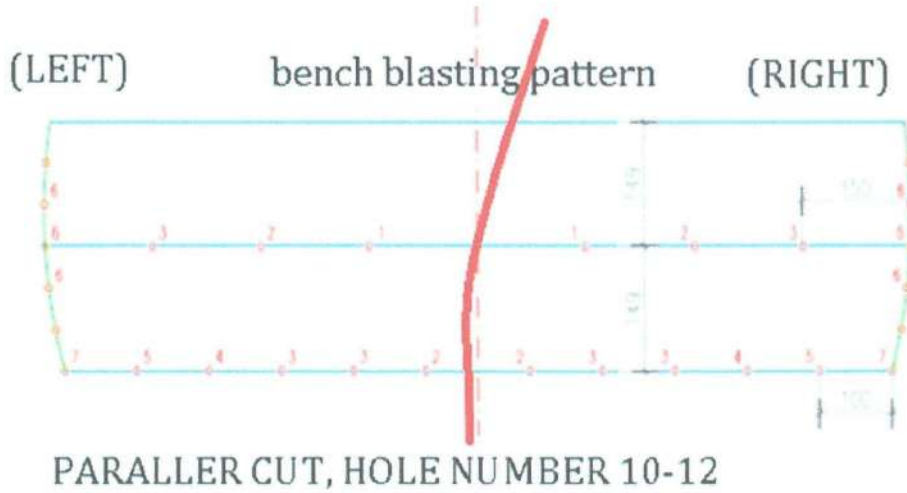
Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date 07/9/2020

LOCATION : TUNNEL 4, NORTH , BENCH EXCAVATION, NORTH ENTRANCE

BENCH CHAINAGE : KM 8+343 R



Name: Erkan Ozdogan Tunnel Engineer
int.

Sign: 

LOCATION : TUNNEL 4 , NORTH ENTRANCE DATE : 7/9/2020

BENCH CHAINAGE : KM 8+343 R

TYPE – 2 BLASTING APPLICATION DETAILS

EXPLOSIVE PROPERTIES : ORICA MAGNUM 365 (38 x 400 mm. 545 gr.)
FACE AREA : 18 M2
TARGETED CUBING : 97.5 M3
TOTAL NUMBER OF HOLES 12 NOS
TOTAL EXPLOSIVE 39.24 KG
SPECIFIC CHARGE 0.40 KG/M2

EXPLOSIVE DISTRIBUTION IN THE FACE

NO 4	18 unit	0.545 kg	9.81
NO 7	18 unit	0.545 kg	9.81
NO 10	18 unit	0.545 kg	9.81
NO 13	18 unit	0.545 kg	9.81

MIC=9.81 KG

TOTAL 39.24

NAME: Erkan Ozdogan
Inst. JOB TITLE : Tunnel Engineer

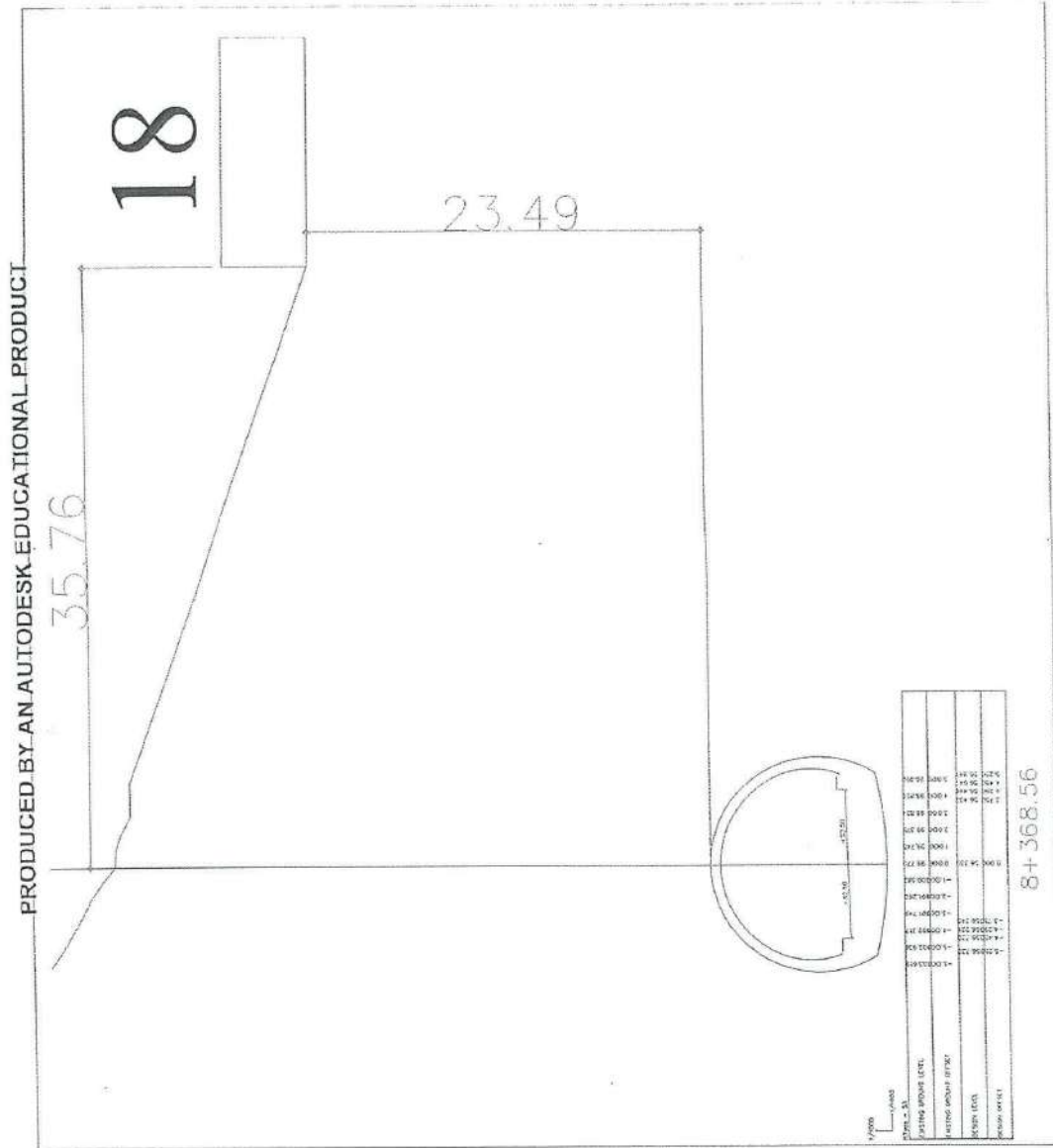
SIGNATURE 

TUNNEL 4 NORTH ENTRANCE BLASTING REPORT		
Blasting for tunnel bench excavation		
GENERAL		
Blast Date	7/9/2020	Time :09.30 a.m. 21.30 p.m.
Portal	North <input type="checkbox"/>	South <input type="checkbox"/>
Tunnel Bench Excavation	North <input type="checkbox"/> X	South <input type="checkbox"/>
Rock Mass Class		
TUNNEL BENCH BLASTING		
	KM 8+343	RIGHT
BLASTING AREA		18 m ²
LENGTH		5000 mm
WIDTH		6500 mm
DEPTH		3000 m
DRILLING EQUIPMENT		
TYPE OF MACHINE	Atlas Copco jumbo	
DRILL STEEL LENGTH	3+3	m.
MAX HOLE LENGTH	5	m
NUMBER OF BOOMS	2	no
DRILLING DATA		
HOLE DIAMETER		45 mm
CUT TYPE	paralel cut	
LARGE HOLE	45	mm
NUMBER OF HOLES	12	no
HOLE LENGTH	5000	mm
DRILLED METERS	60	drm
ADVANCE		mm
PULL LENGTH		%
ROCK VOLUME PER ROUND	97.5	m ³
SPECIFIC DRILLING	0.62	drm/m ³
DRILLING TIME		
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	40	min
SETUP+DISMOUNT+REMOVE	60	min
DRILLING CYCLE	120	min
CHARGING TIME		
CHARGE TOTAL	39.24	kg
SPECIFIC CHARGE	0.40	kg/m ³
CHARGING CREW	3	men
SETUP TIME	40	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	60	min/round
BLASTING PATTERN		
Attached		

Prepared by :Erkan Ozdogan, Tunnel Engineer

Yast.
Bora ÖBÜTLÜER

Revaz Tsetskhladze



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

Date/Time Long at 17:42:33 September 7, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.7 Volts
File Name UM14790_20200907174233.IDFW

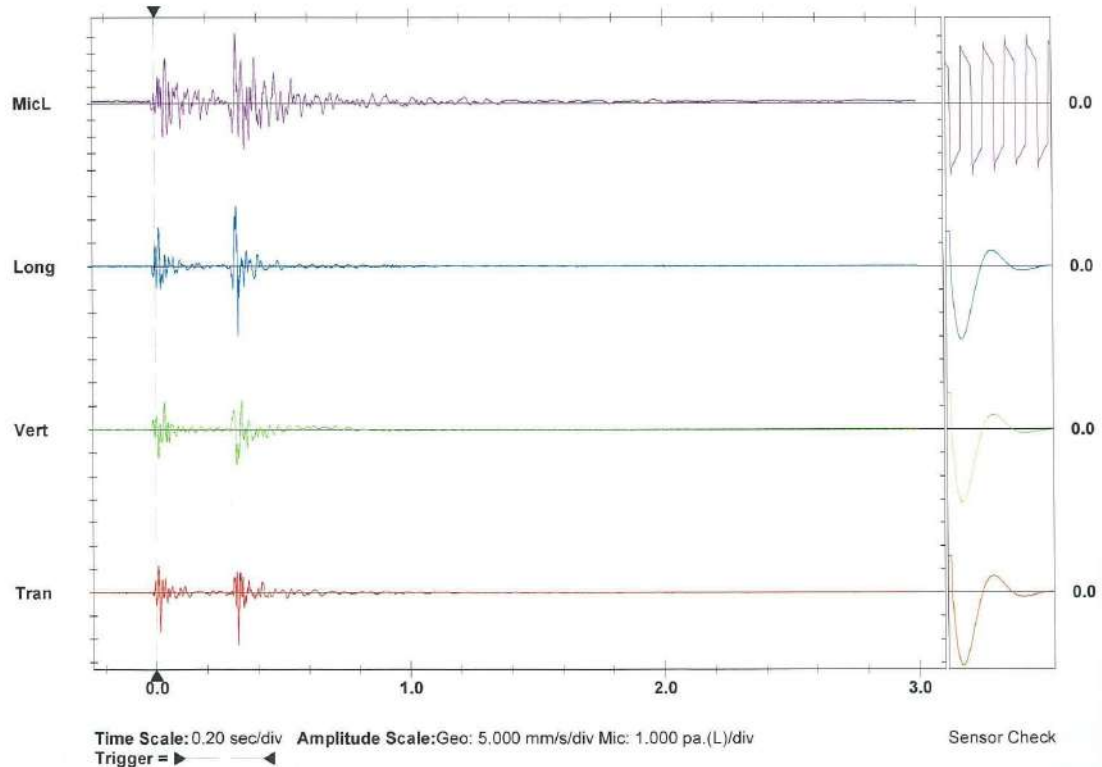
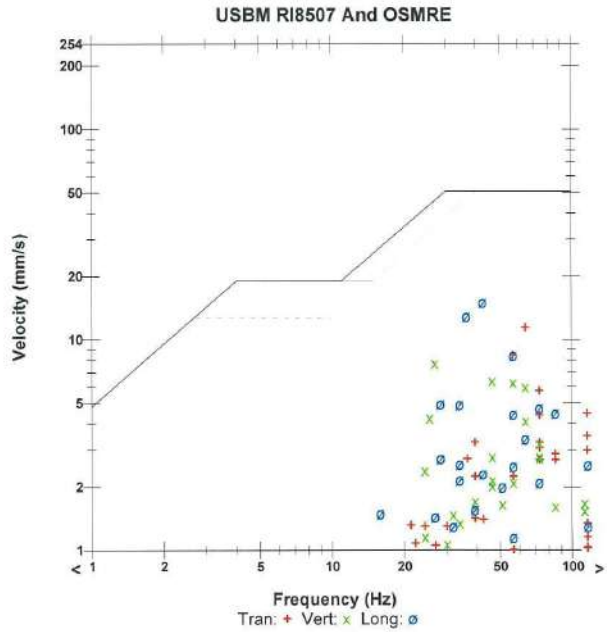
Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes

Microphone Linear Weighting
PSPL 4.205 pa.(L) at 0.317 sec
ZC Freq 32 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1250 mv)

	Tran	Vert	Long	
PPV	11.38	7.693	14.99	mm/s
ZC Freq	64	27	43	Hz
Time (Rel. to Trig)	0.321	0.317	0.325	sec
Peak Acceleration	0.483	0.298	1.119	g
Peak Displacement	0.022	0.046	0.050	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.1	7.3	Hz
Overswing Ratio	4.4	5.0	4.7	

Peak Vector Sum 16.10 mm/s at 0.325 sec



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 5.000 mm/s/div Mic: 1.000 pa.(L)/div
 Trigger = \blacktriangleright \blacktriangleleft

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 19/10/2020 **Time of blast:** 15:17:53 **BlastNumber:** OAB10

Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : OTAR –ROIN GUGULADZE

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 8+495 Tunnel №4 MIC=5

Seismograph was installed at predetermined distance of L= 78 meters from the blasting location.


The ground vibration was measured within the limits

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

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

	Project Batumi Bypass Road Section km-1+000—km- 13+325	 <small>Member of the Surbana Jurong Group</small>
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LOCATION : TUNNEL 4 , NORTH ENTRANCE DATE : 19/10/2020

BENCH CHAINAGE : KM 8+495 R

TYPE – 2 BLASTING APPLICATION DETAILS

EXPLOSIVE PROPERTIES : ORICA MAGNUM 365 (38 x 400 mm. 545 gr.)
FACE AREA : 18 M2
TARGETED CUBING : 97.5 M3
TOTAL NUMBER OF HOLES 12 NOS
TOTAL EXPLOSIVE 39.24 KG
SPECIFIC CHARGE 0.40 KG/M2

EXPLOSIVE DISTRIBUTION IN THE FACE

NO 4	18 unit	0.545 kg	9.81
NO 7	18 unit	0.545 kg	9.81
NO 10	18 unit	0.545 kg	9.81
NO 13	18 unit	0.545 kg	9.81

MIC=9.81 KG

TOTAL 39.24

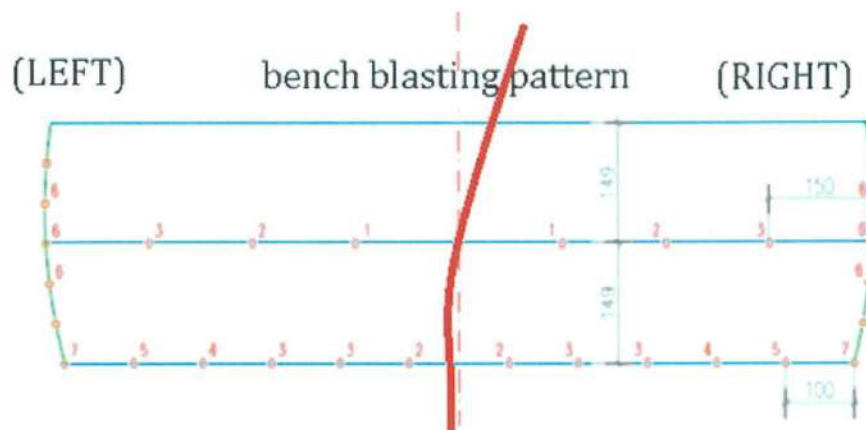
NAME: Bora OGUTLULER JOB TITLE : Tunnel Engineer

SIGNATURE

Date 19/10/2020

LOCATION : TUNNEL 4, NORTH , BENCH EXCAVATION, NORTH ENTRANCE

BENCH CHAINAGE : KM 8+493 L



PARALLER CUT, HOLE NUMBER 10-12

Name: Bora OGUTLULER Tunnel Engineer

Sign:

TUNNEL 4 NORTH ENTRANCE BLASTING REPORT		
Blasting for tunnel bench excavation		
GENERAL		
Blast Date	19/10/2020	Time :09.30 a.m. 21.30 p.m.
Portal	North <input type="checkbox"/>	South <input type="checkbox"/>
Tunnel Bench Excavation	North <input type="checkbox"/> X	South <input type="checkbox"/>
Rock Mass Class		
TUNNEL BENCH BLASTING		
	KM 8+495	RIGHT
BLASTING AREA	18	m ²
LENGTH	5000	mm
WIDTH	6500	mm
DEPTH	3000	m
DRILLING EQUIPMENT		
TYPE OF MACHINE	Atlas Copco jumbo	
DRILL STEEL LENGTH	3+3	m.
MAX HOLE LENGTH	5	m
NUMBER OF BOOMS	2	no
DRILLING DATA		
HOLE DIAMETER	45	mm
CUT TYPE	paralel cut	
LARGE HOLE	45	mm
NUMBER OF HOLES	12	no
HOLE LENGTH	5000	mm
DRILLED METERS	60	drm
ADVANCE	—	mm
PULL LENGTH	—	%
ROCK VOLUME PER ROUND	97.5	m ³
SPECIFIC DRILLING	0.62	drm/m ³
DRILLING TIME		
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	40	min
SETUP+DISMOUNT+REMOVE	60	min
DRILLING CYCLE	120	min
CHARGING TIME		
CHARGE TOTAL	39.24	kg
SPECIFIC CHARGE	0.40	kg/m ³
CHARGING CREW	3	men
SETUP TIME	40	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	60	min/round
BLASTING PATTERN		
Attached		

Prepared by :Bora OGUTLULER, Tunnel Engineer

Date/Time Tran at 15:17:53 October 19, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.7 Volts
File Name UM14790_20201019151753.IDFW

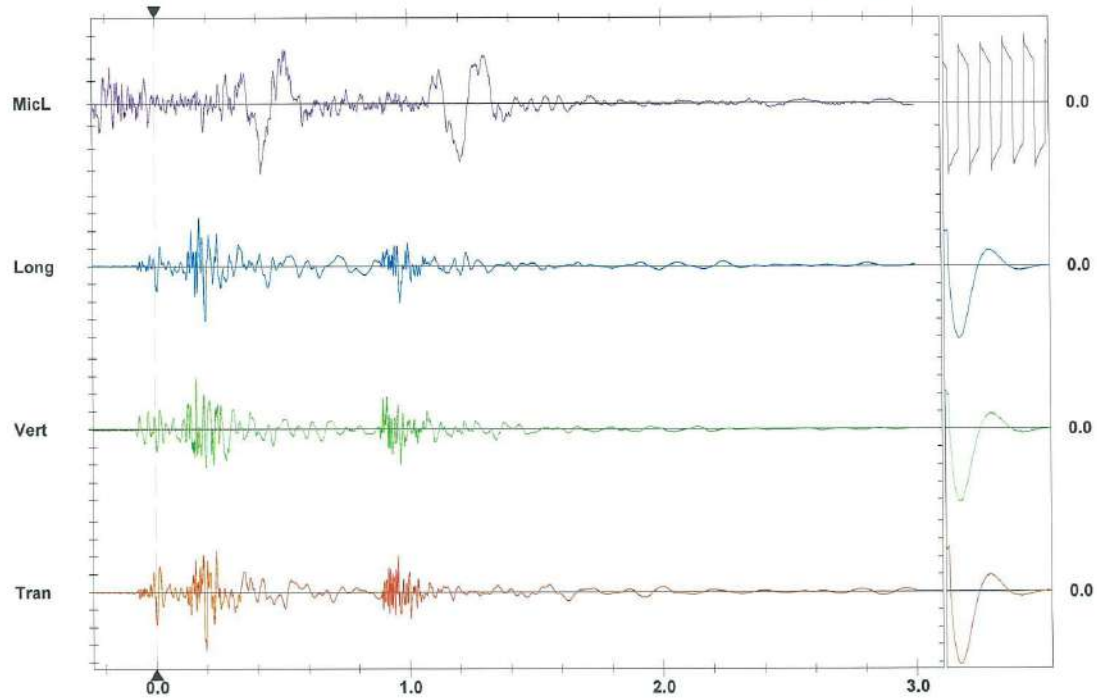
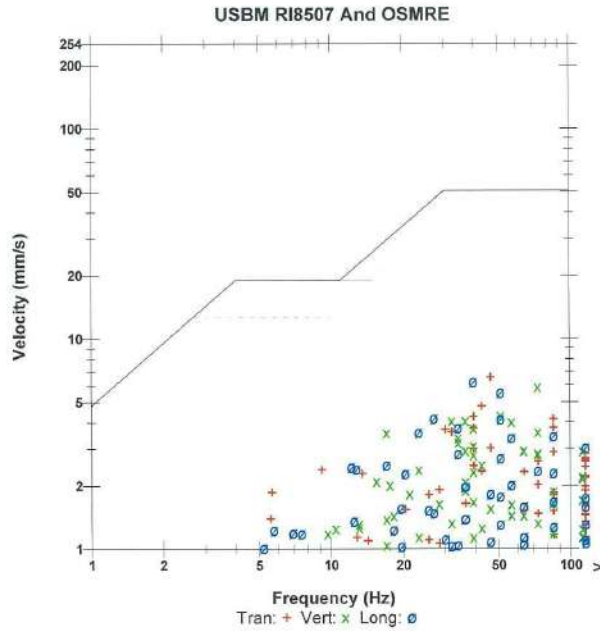
Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes

Microphone Linear Weighting
PSPL 15.59 pa.(L) at 0.416 sec
ZC Freq 5.2 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1284 mv)



	Tran	Vert	Long	
PPV	6.526	5.856	6.211	mm/s
ZC Freq	47	73	39	Hz
Time (Rel. to Trig)	0.194	0.158	0.195	sec
Peak Acceleration	0.596	0.272	0.346	g
Peak Displacement	0.035	0.033	0.028	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.1	7.3	Hz
Overswing Ratio	4.4	4.9	4.8	

Peak Vector Sum 9.938 mm/s at 0.195 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 5.000 pa.(L)/div
 Trigger = > <

Sensor Check

	Project Batumi Bypass Road Section km-1+000—km- 13+325	
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SEISMOGRAPH OPERATOR'S REPORT	
Client :	<u>ROADS DEPARTMENT OF GEORGIA</u>
Project:	<u>BATUMI BYPASS PROJECT</u>

Date: <u>24/09/2020</u>	Time of blast: <u>17:30:13</u>	BlastNumber: <u>PBP01</u>
-------------------------	--------------------------------	---------------------------

Seismograph Make and Model:	<u>InstanTel, Micromate</u>	Serial Number:	<u>UM13228</u>
Trigger Source:	<u>GEO: 3.7 mm/sn</u>		
Range Selected:	<u>GEO: 254 mm/sn</u>	Record Duration:	<u>3 seconds at 1024 sps</u>
Sensor Test Result (at set-up):	<u>passed</u>		
Geophone Location	<u>Nugzar BERIDZE</u>		
Witness (If Any) :	<u>(House Owner)</u>		
Additional comments	<u>Blasting location at KM 8+585 Tunnel №4 MIC=0.9</u>		
<p>Seismograph was installed at predetermined distance of L= 89 meters from the blasting location. Vibration was measured on the land pilot next to the house.</p> <p>The ground vibration was measured within the limits.</p> <p>I certify that the above listed monitoring equipment was properly set in place for the blast indicated</p>			
Signature of seismograph operator:			
Printed name :	<u>Ayaz ABDURAHMANOV</u>		
Company :	<u>POLATYOL & MAPA JV</u>		

Date/Time Tran at 17:30:13 September 24, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.5 Volts
File Name UM14790_20200924173013.IDFW

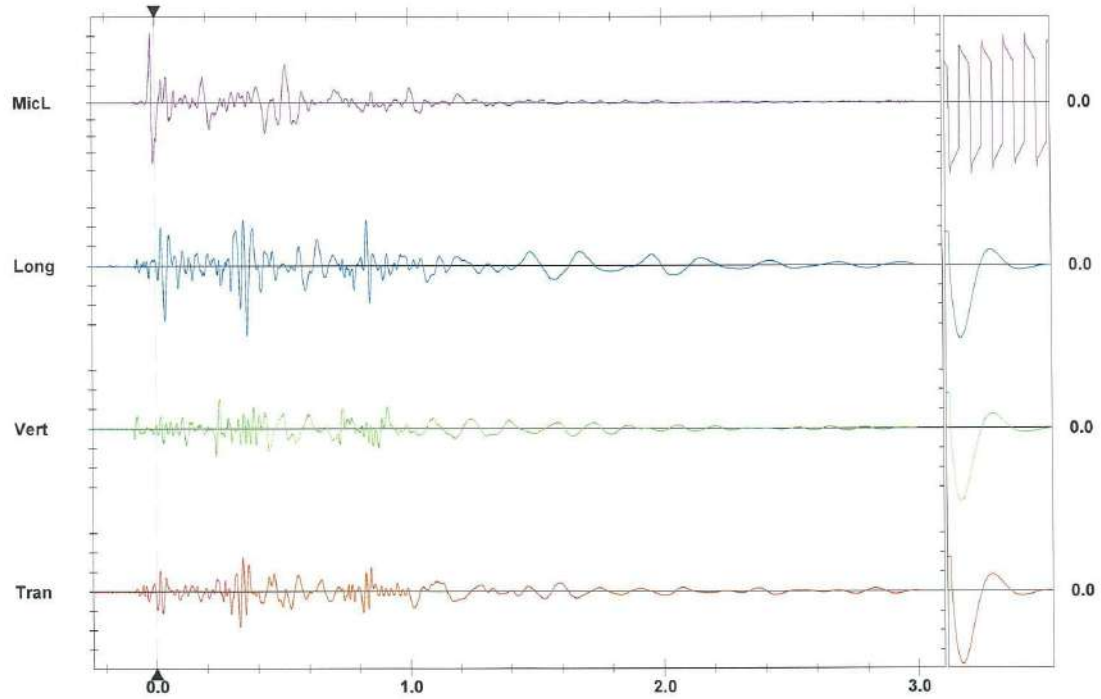
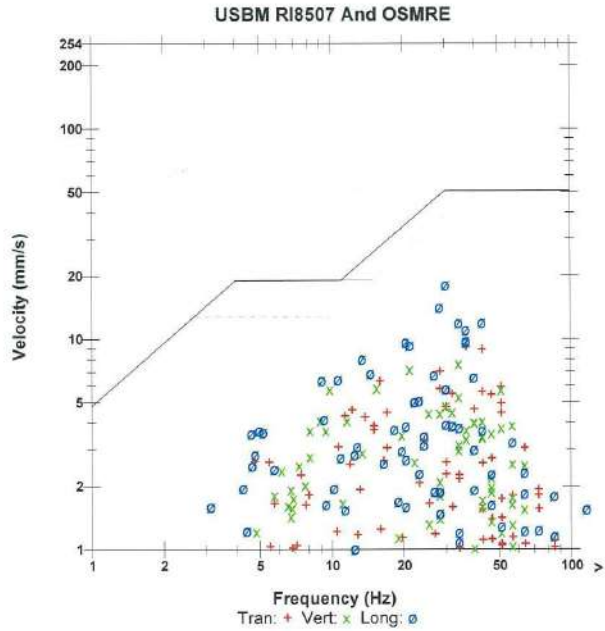
Notes
Location: BATUMI BYPASS ROAD PROJECT
Client: ROADS DEPARTMENT OF GEORGIA
User Name: Ayaz Abdurahmanov
General: Blstgn Tunnel 4 Exit

Extended Notes

Microphone Linear Weighting
PSPL 42.00 pa.(L) at -0.020 sec
ZC Freq 23 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1256 mv)

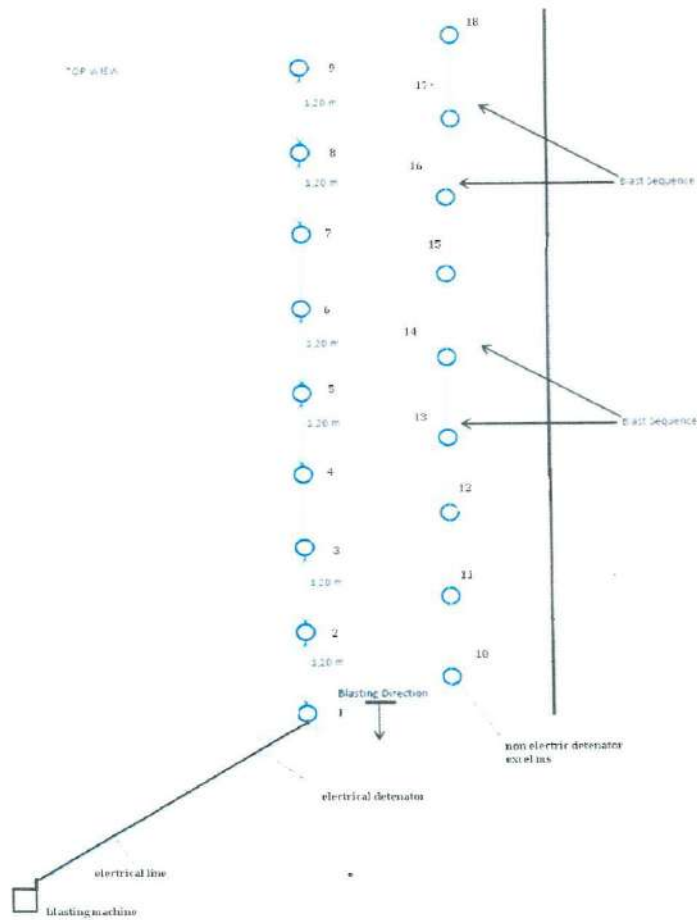
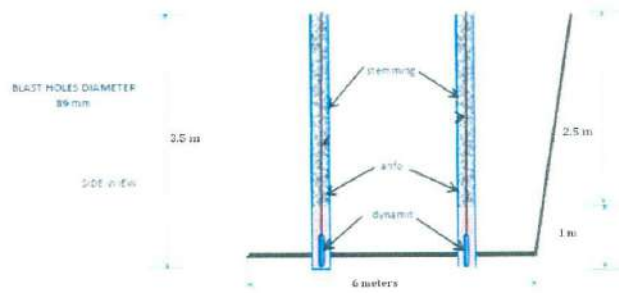
	Tran	Vert	Long	
PPV	9.143	7.606	17.98	mm/s
ZC Freq	37	34	30	Hz
Time (Rel. to Trig)	0.327	0.250	0.360	sec
Peak Acceleration	0.253	0.263	0.356	g
Peak Displacement	0.081	0.064	0.117	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.1	7.3	Hz
Overswing Ratio	4.4	5.0	4.8	

Peak Vector Sum 19.39 mm/s at 0.360 sec



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 5.000 mm/s/div Mic: 10.000 pa.(L)/div
Trigger =

Sensor Check



TUNNEL 4 PORTAL BLASTING REPORT		
GENERAL		
Blast Date	24/09/2020	Time :
Portal	North <input type="checkbox"/>	South <input type="checkbox"/> X
Tube	North <input type="checkbox"/>	South <input type="checkbox"/> <input type="checkbox"/>
Rock Mass Class		
OPEN SURFACE BLASTING		
	KM:	KM: 8+585
BLASTING AREA	48	m ²
LENGTH	6000	mm
WIDTH	8000	mm
DEPTH	3	m
DRILLING EQUIPMENT		
TYPE OF MACHINE	Atlas Copco	
DRILL STEEL LENGTH	3	mm
MAX HOLE LENGTH	12000	mm
NUMBER OF BOOMS	1	no
DRILLING DATA		
HOLE DIAMETER	86	mm
CUT TYPE	Mixed	
LARGE HOLE	86	mm
NUMBER OF HOLES	18	no
HOLE LENGTH	3000	mm
DRILLED METERS	48	drm
ADVANCE	-	mm
PULL LENGTH	-	%
ROCK VOLUME PER ROUND	240	m ³
SPECIFIC DRILLING	0.5	drm/m ³
DRILLING TIME		
TYPE OF ROCK	andesite	
PENETRATION	2.05	m/min
DRILLING RATE	1.43	m/min
REAMING PENETRATION	0	m/min
REAMING TIME	0	min
DRILLING TIME	94	min
SETUP+DISMOUNT+REMOVE	30	min
DRILLING CYCLE	200	min
CHARGING TIME		
CHARGE TOTAL	60	kg
SPECIFIC CHARGE	0.9	kg/m ³
CHARGING CREW	5	men
SETUP TIME	30	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	50	min/round
BLASTING PATTERN		
Attached	Date: 24.09.2020	

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 07/09/2020 **Time of blast:** 17:42:36 **BlastNumber:** _ST02_

Seismograph Make and Model: InstanTel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location Revaz TSETSKHLADZE –Nuri TSETSKHLADZE

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 8+343 Tunnel №4 MIC=9,81

Seismograph was installed at predetermined distance of $L = 54$ meters from the blasting location.

The ground vibration was measured within the limits

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

Signature of seismograph operator:

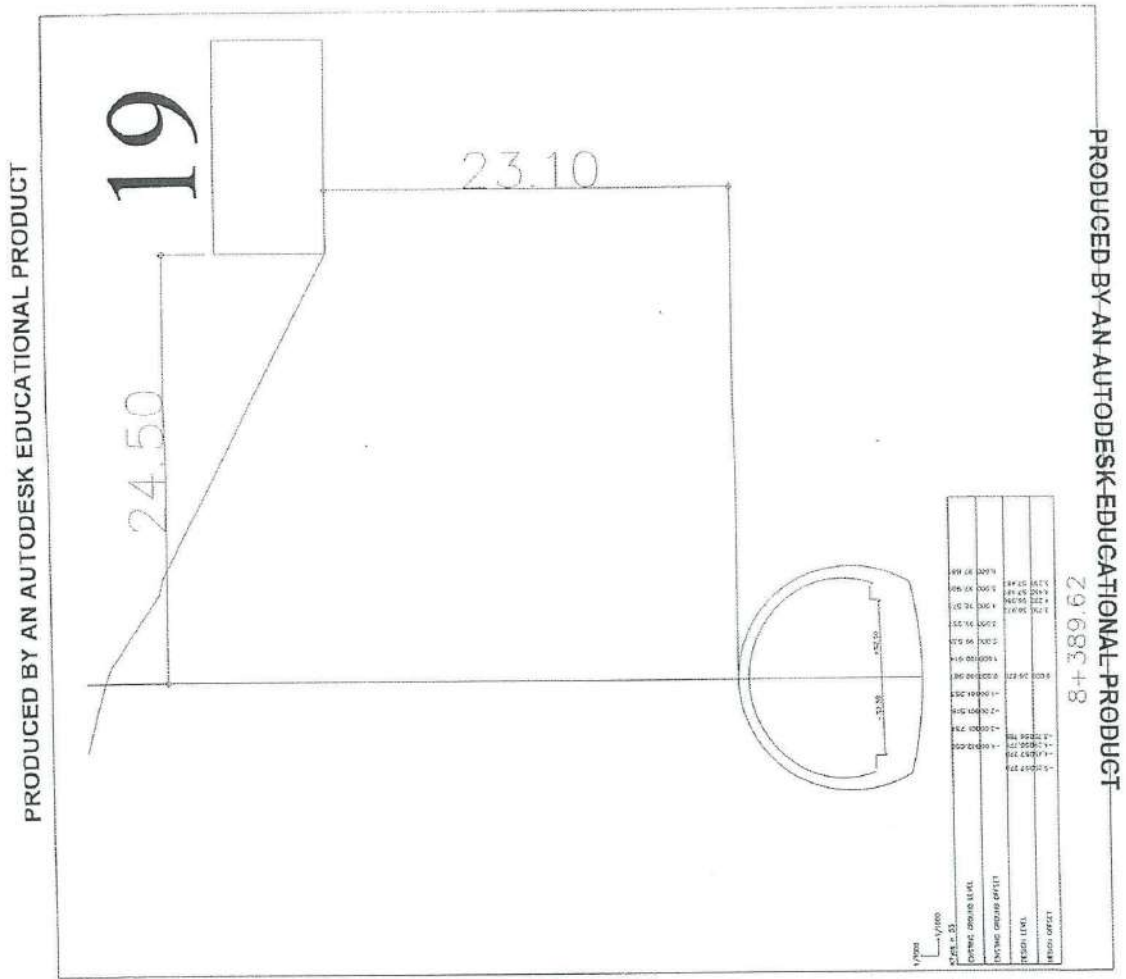
Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

3.09.20

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

Nuri Tsetskhladze



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

Date/Time Long at 17:42:36 September 7, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

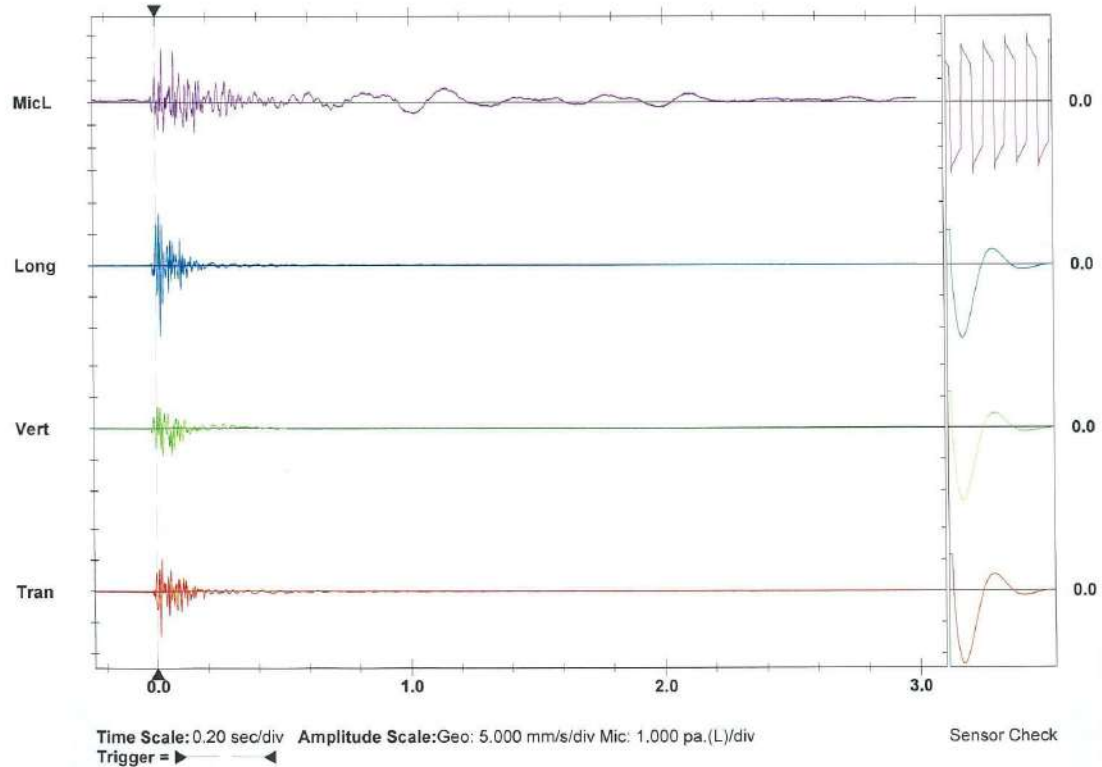
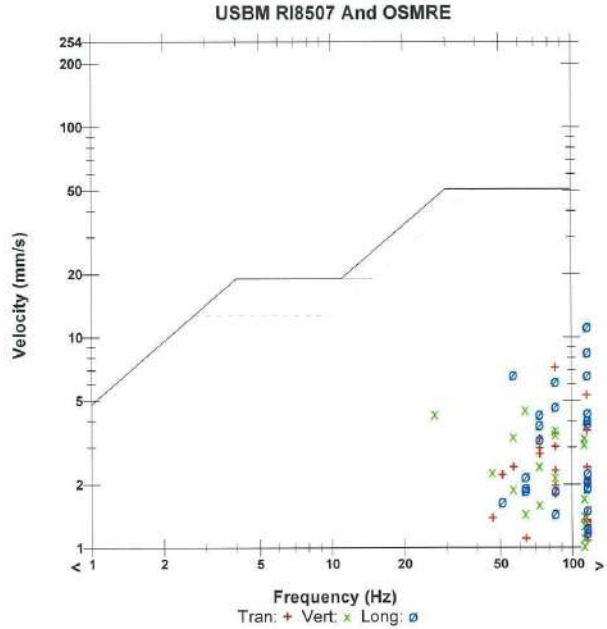
Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.7 Volts
File Name UM14790_20200907174236.IDFW

Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
Microphone Linear Weighting
PSPL 2.389 pa.(L) at 0.024 sec
ZC Freq 73 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1250 mv)

	Tran	Vert	Long	
PPV	7.180	4.508	11.20	mm/s
ZC Freq	85	64	>100	Hz
Time (Rel. to Trig)	0.013	0.025	0.018	sec
Peak Acceleration	0.477	0.272	0.899	g
Peak Displacement	0.010	0.017	0.027	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.1	7.3	Hz
Overswing Ratio	4.4	5.0	4.7	

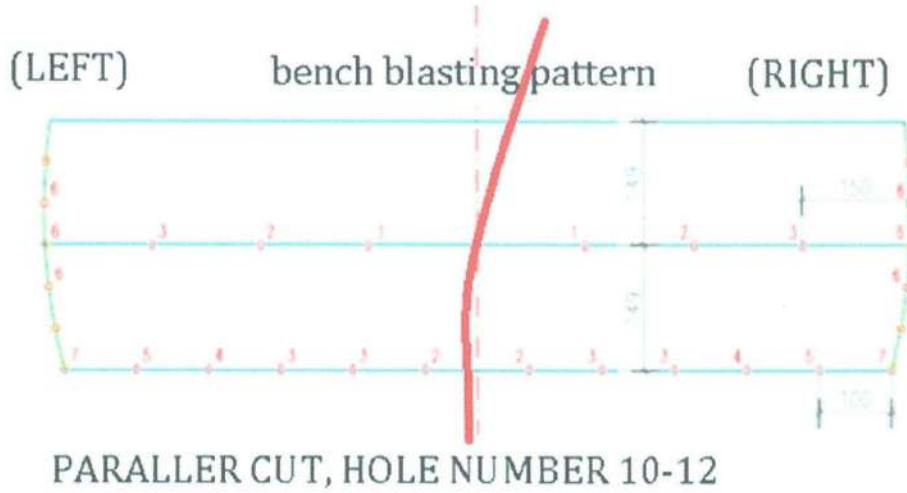
Peak Vector Sum 12.10 mm/s at 0.018 sec



Date 07/9/2020

LOCATION : TUNNEL 4, NORTH , BENCH EXCAVATION, NORTH ENTRANCE

BENCH CHAINAGE : KM 8+359 L



Name: Erkan Ozdogan Tunnel Engineer

Sign:



TUNNEL 4 NORTH ENTRANCE BLASTING REPORT		
Blasting for tunnel bench excavation		
GENERAL		
Blast Date	7/9/2020	Time :09.30 a.m. 21.30 p.m.
Portal	North <input type="checkbox"/>	South <input type="checkbox"/>
Tunnel Bench Excavation	North <input type="checkbox"/> X	South <input type="checkbox"/>
Rock Mass Class		
TUNNEL BENCH BLASTING		
	KM 8+359	LEFT
BLASTING AREA		18 m ²
LENGTH		5000 mm
WIDTH		6500 mm
DEPTH		3000 m
DRILLING EQUIPMENT		
TYPE OF MACHINE	Atlas Copco jumbo	
DRILL STEEL LENGTH	3+3	m.
MAX HOLE LENGTH	5	m
NUMBER OF BOOMS	2	no
DRILLING DATA		
HOLE DIAMETER	45	mm
CUT TYPE	paralel cut	
LARGE HOLE	45	mm
NUMBER OF HOLES	12	no
HOLE LENGTH	5000	mm
DRILLED METERS	60	drm
ADVANCE		mm
PULL LENGTH		%
ROCK VOLUME PER ROUND	97.5	m ³
SPECIFIC DRILLING	0.62	drm/m ³
DRILLING TIME		
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	40	min
SETUP+DISMOUNT+REMOVE	60	min
DRILLING CYCLE	120	min
CHARGING TIME		
CHARGE TOTAL	39.24	kg
SPECIFIC CHARGE	0.40	kg/m ³
CHARGING CREW	3	men
SETUP TIME	40	min
CHARGING TIME	2	min-man/hole
CHARGING CYCLE	60	min/round
BLASTING PATTERN		
Attached		

Prepared by :Erkan Ozdogan, Tunnel Engineer

Inst.
Bora ÖZÜTLÜER

LOCATION : TUNNEL 4 , NORTH ENTRANCE DATE : 07/9/2020

BENCH CHAINAGE : KM 8+359 L

TYPE – 2 BLASTING APPLICATION DETAILS

EXPLOSIVE PROPERTIES : ORICA MAGNUM 365 (38 x 400 mm. 545 gr.)
FACE AREA : 18 M2
TARGETED CUBING : 97.5 M3
TOTAL NUMBER OF HOLES 12 NOS
TOTAL EXPLOSIVE 39.24 KG
SPECIFIC CHARGE 0.40 KG/M2

EXPLOSIVE DISTRIBUTION IN THE FACE

NO 4	18 unit	0.545 kg	9.81
NO 7	18 unit	0.545 kg	9.81
NO 10	18 unit	0.545 kg	9.81
NO 13	18 unit	0.545 kg	9.81


MIC=9.81 KG

TOTAL 39.24

NAME: Erkan Ozdogan JOB TITLE : Tunnel Engineer

SIGNATURE

Inst.
Boru ÖZDÜĞAN


Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Surlans Jirong Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_095		
Project Name:	Batumi Bypass Road Project	Date raised:	30/01/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Br.9		

Non-Conformance details:

Food containers along the bridge.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
--	--

Part 2 – Corrective Actions (attach any supporting information)

Food containers have been cleaned from construction site.

Agreed Close-out Date
Date: 03/02/2021

Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 
--	--

Part 3 – Inspection (evidence to support corrective action implementation)

Engineer's Representative:	Signature:
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Closure Date:	
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ENCR 095




Photo 1

Polatyol & mapa Joint Venture

Photo-01



Polatyol	Environmental Non-Conformance Report (ENCR)	 <small>Member of the Sarsbank Jirong Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_096		
Project Name:	Batumi Bypass Road Project	Date raised:	30/01/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	T4 Portal 1		

Non-Conformance details:

Household waste, food containers.
The area is heavily polluted with plastic waste.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
--	--

Part 2 – Corrective Actions (attach any supporting information)

Household waste has been cleaned from construction site.

Agreed Close-out Date
Date: 03/02/2021

Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 
--	--

Part 3 – Inspection (evidence to support corrective action implementation)

Engineer's Representative:	Signature:
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Closure Date:	
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Photo 2




Photo-01



Photo-02



Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the S&P Group</small>
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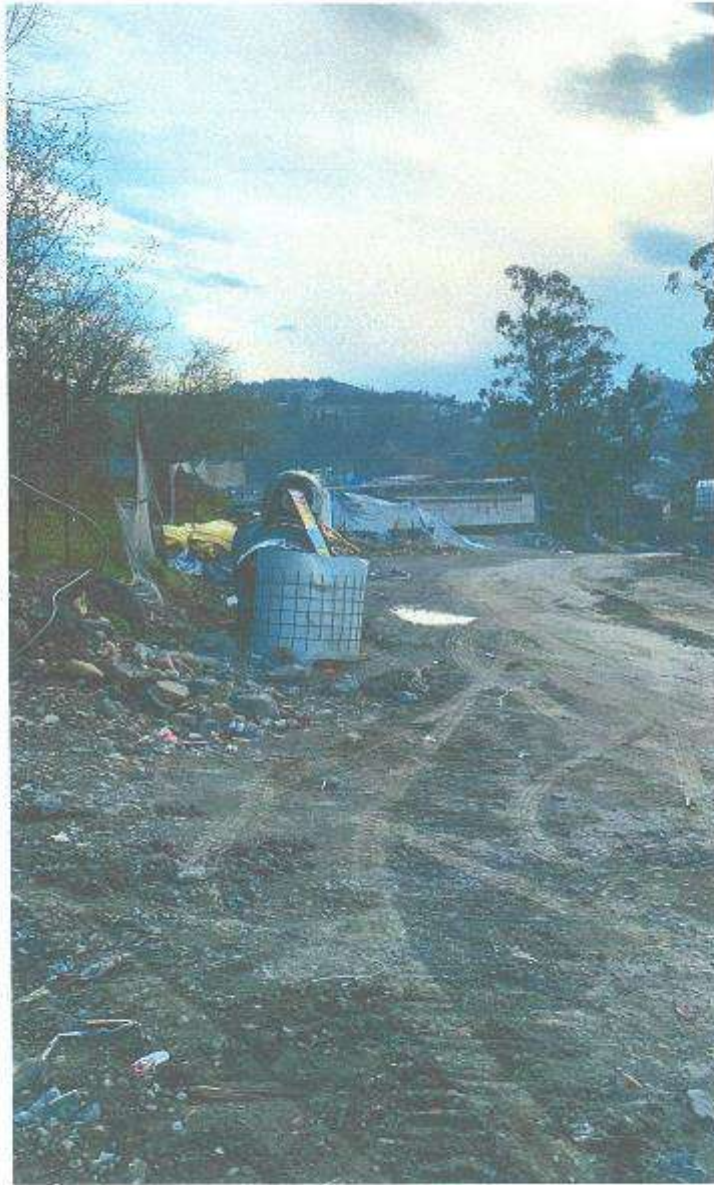
Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_097		
Project Name:	Batumi Bypass Road Project	Date raised:	30/01/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	T3 Portal 2		
Non-Conformance details:			
Overall bad housekeeping.			
Engineer's Representative:	Giorgi Shiukashvili	Signature:	
Part 2 – Corrective Actions (attach any supporting information)			
House keeping has been carried out ,construction materials were placed properly.			
			Agreed Close-out Date Date: 08/02/2021
Contractor's Representative:	Ayaz ABDURAHMANOV	Signature:	
Part 3 – Inspection (evidence to support corrective action implementation)			
Done			
Engineer's Representative:		Signature:	
Closure Date:	08.02.21		


ENCR 097






Photo 1

Photo-03



Polatyol	Environmental Non-Conformance Report (ENCR)	 <small>Member of the Surobank Juring Group</small>
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Part 1 – Non-Conformance Description:					
Reference Number:	ENCR_086				
Project Name:	Batumi Bypass Road Project	Date raised:	30/01/2021		
Contractor Name:	POLATYOL & MAPA JOINT VENTURE				
Location:	T3 Portal 2				
Non-Conformance details:					
Empty oil barrel for disposal are collected and stored improperly without waterproof cover. Danger of oil pollution.					
Engineer's Representative: Giorgi Shiukashvili	Signature: 				
Part 2 – Corrective Actions (attach any supporting information)					
Empty oil barrel storage area was properly covered with tent to avoid oil pollution.					
			<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 03/02/2021</td> </tr> </table>	Agreed Close-out Date	Date: 03/02/2021
Agreed Close-out Date					
Date: 03/02/2021					
Contractor's Representative: Ayaz Abdurahmanov	Signature: 				
Part 3 – Inspection (evidence to support corrective action implementation)					
Done					
Engineer's Representative:	Signature: 				
Closure Date:	19.02.2021				


ENCR 098



Photo 1

Photo 01



Polatyol	Environmental Non-Conformance Report (ENCR)	 <small>Member of the Sellen Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_099		
Project Name:	Batumi Bypass Road Project	Date raised:	30/01/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	T3 Portal 2		

Non-Conformance details:

Oil spills from damaged machineries. No drip trays, oil spilling spare parts on the ground.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
--	--

Part 2 – Corrective Actions (attach any supporting information)

	<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 03/02/2021</td> </tr> </table>	Agreed Close-out Date	Date: 03/02/2021
Agreed Close-out Date			
Date: 03/02/2021			

Contractor's Representative:	Signature:
------------------------------	------------

Part 3 – Inspection (evidence to support corrective action implementation)

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Engineer's Representative:	Signature:
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Closure Date:	
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Photo 1



Photo 2

Polatyol	Environmental Non-Conformance Report (ENCR)	 <small>Member of the Sauron Group</small>
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Part 1 – Non-Conformance Description:					
Reference Number:	ENCR_100				
Project Name:	Batumi Bypass Road Project	Date raised:	25/02/2021		
Contractor Name:	POLATYOL & MAPA JOINT VENTURE				
Location:	Plant yard				
Non-Conformance details:					
Household waste, food containers.					
Engineer's Representative: Giorgi Shiukashvili	Signature: 				
Part 2 – Corrective Actions (attach any supporting information)					
Household waste, food containers were cleaned from construction site.					
			<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 04/03/2021</td> </tr> </table>	Agreed Close-out Date	Date: 04/03/2021
Agreed Close-out Date					
Date: 04/03/2021					
Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 				
Part 3 – Inspection (evidence to support corrective action implementation)					
Dove					
Engineer's Representative:	Signature: 				
Closure Date:	09.03.21				


ENCR 100





Photo 1

Photo-06



Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Surobex Jurseng Group</small>
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Part 1 – Non-Conformance Description:					
Reference Number:	ENCR_101				
Project Name:	Batumi Bypass Road Project	Date raised:	25/02/2021		
Contractor Name:	POLATYOL & MAPA JOINT VENTURE				
Location:	Plant yard				
Non-Conformance details:					
Violation of the rule for storage of hazardous waste/materials.					
Engineer's Representative: Giorgi Shiukashvili	Signature: 				
Part 2 – Corrective Actions (attach any supporting information)					
Hazardous waste/materials were stored properly, empty oil barrels were removed from plant yard.					
			<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 02/03/2021</td> </tr> </table>	Agreed Close-out Date	Date: 02/03/2021
Agreed Close-out Date					
Date: 02/03/2021					
Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 				
Part 3 – Inspection (evidence to support corrective action implementation)					
					
Engineer's Representative:	Signature: 				
Closure Date:	14.03.21				

ENCR 101



Photo 1


Polatyo! & mapa Joint Venture

Photo-03



Photo-04



Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Surbana Jurong Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_102		
Project Name:	Batumi Bypass Road Project	Date raised:	25/02/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Precast yard		

Non-Conformance details:

Household waste, food containers.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
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Part 2 – Corrective Actions (attach any supporting information)

	<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 04/03/2021</td> </tr> </table>	Agreed Close-out Date	Date: 04/03/2021
Agreed Close-out Date			
Date: 04/03/2021			

Contractor's Representative:	Signature:
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Part 3 – Inspection (evidence to support corrective action implementation)

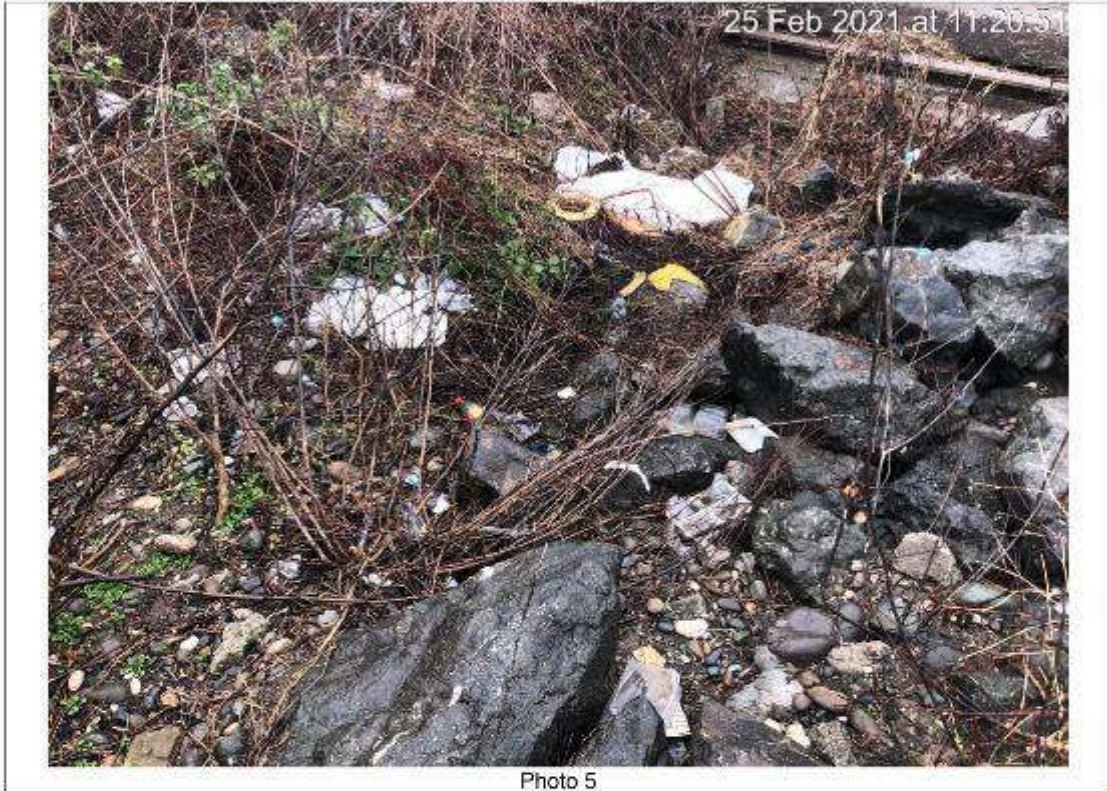
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Engineer's Representative:	Signature:
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Closure Date:	
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Photo 1



Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Sellen Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_103	
Project Name:	Batumi Bypass Road Project	Date raised: 25/02/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE	
Location:	T4 portal 1	

Non-Conformance details:

Household waste, food containers.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
--	--

Part 2 – Corrective Actions (attach any supporting information)

	<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 04/03/2021</td> </tr> </table>	Agreed Close-out Date	Date: 04/03/2021
Agreed Close-out Date			
Date: 04/03/2021			

Contractor's Representative:	Signature:
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Part 3 – Inspection (evidence to support corrective action implementation)

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Engineer's Representative:	Signature:
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Closure Date:	
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Photo 1



Photo 2

Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Subsea Group</small>
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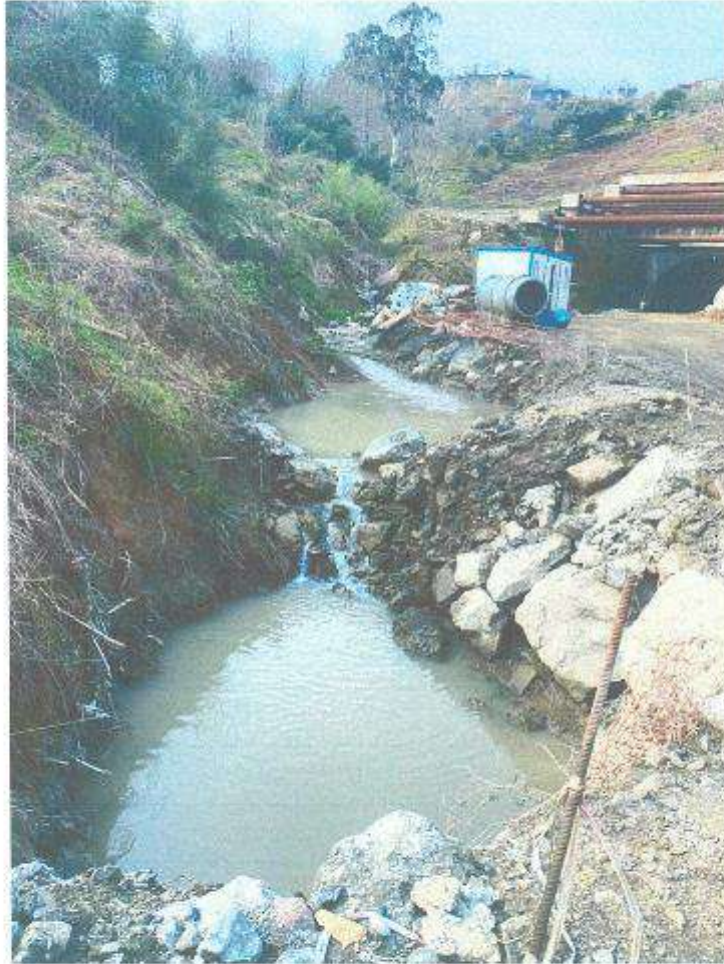
Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_104		
Project Name:	Batumi Bypass Road Project	Date raised:	25/02/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	T4 portal 1		
Non-Conformance details:			
Overfilled sedimentation basins.			
Engineer's Representative: Giorgi Shiukashvili	Signature: 		
Part 2 – Corrective Actions (attach any supporting information)			
Sedimentation basins were cleaned.			
			Agreed Close-out Date Date: 02/03/2021
Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 		
Part 3 – Inspection (evidence to support corrective action implementation)			
Done			
Engineer's Representative:	Signature: 		
Closure Date:	16.03.2021		


ENCR 104



Photo 1

Photo-01



Polatyo!	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Sirtana Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_105		
Project Name:	Batumi Bypass Road Project	Date raised:	04/03/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Km 12-Km 13		

Non-Conformance details:

Household waste, food containers.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
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Part 2 – Corrective Actions (attach any supporting information)

Household waste and food containers were removed from construction site.

Agreed Close-out Date
Date: 10/03/2021

Contractor's Representative: 	Signature: 
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Part 3 – Inspection (evidence to support corrective action implementation)

Done

Engineer's Representative:	Signature: 
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Closure Date:	19.03.21
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Photo 1

Photo-03



Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Sellen Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_106		
Project Name:	Batumi Bypass Road Project	Date raised:	29/03/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Interchange No. 3		

Non-Conformance details:

Household/Construction waste.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
--	--

Part 2 – Corrective Actions (attach any supporting information)

Household and construction waste was cleaned from the Construction site.

Agreed Close-out Date
Date: 05/04/2021

Contractor's Representative: Fatih Capan	Signature: 
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Part 3 – Inspection (evidence to support corrective action implementation)

Engineer's Representative:	Signature:
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Closure Date:	
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ENCR 106



Photo No. 1

Photo-02



Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Sellen Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_107		
Project Name:	Batumi Bypass Road Project	Date raised:	14/04/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Bridge No. 4 P6-P7		

Non-Conformance details:


Plastic waste.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
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Part 2 – Corrective Actions (attach any supporting information)

Plastic waste has been cleaned from the construction site.

Agreed Close-out Date
Date: 17/04/2021

Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 
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Part 3 – Inspection (evidence to support corrective action implementation)

Engineer's Representative:	Signature:
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Closure Date:	
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ENCR 107



Photo No. 1

Photo-03



Photo-04



Polatyol

**Environmental Non-Conformance
Report (ENCR)**



Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_108		
Project Name:	Batumi Bypass Road Project	Date raised:	16/04/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Bridge No. 8 P2-P3		
Non-Conformance details:			
Plastic waste:			
Engineer's Representative: Giorgi Shiukashvili	Signature:		
Part 2 – Corrective Actions (attach any supporting information)			
Plastic waste has been cleaned from the construction site.			
			Agreed Close-out Date
			Date: 20/04/2021
Contractor's Representative: Ayaz ABDURAHMANOV	Signature:		
Part 3 – Inspection (evidence to support corrective action implementation)			
Done (Photos)			
Engineer's Representative:	Signature:		
Closure Date:	20.04.21		

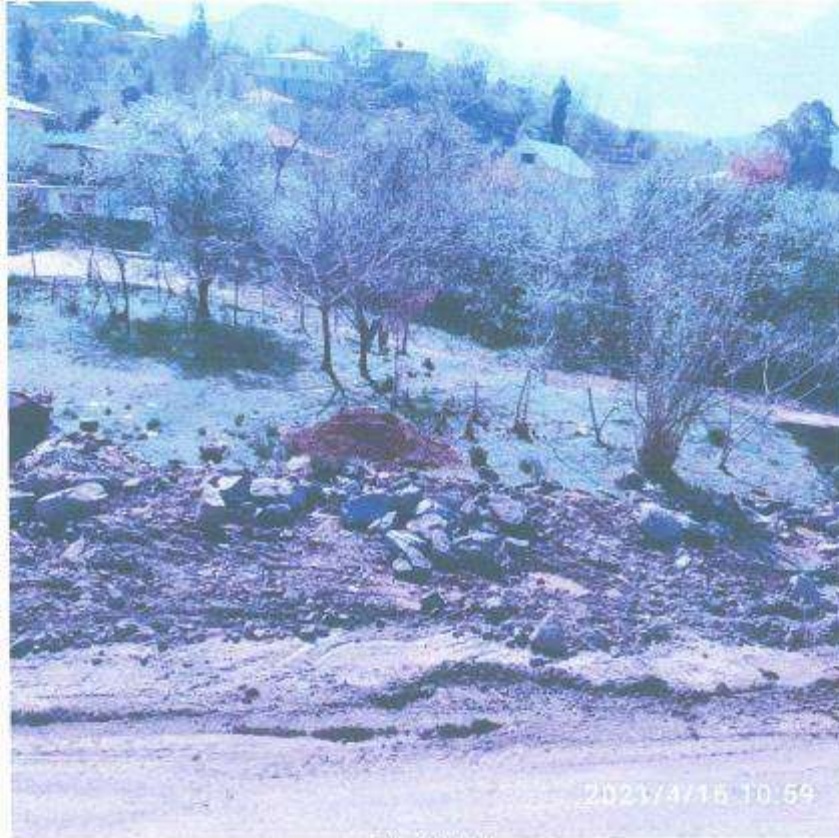



Photo No. 1

Photo-01



Photo-02



Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Saurana Jirong Group</small>
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Part 1 – Non-Conformance Description:					
Reference Number:	ENCR_109				
Project Name:	Batumi Bypass Road Project	Date raised:	26/04/2021		
Contractor Name:	POLATYOL & MAPA JOINT VENTURE				
Location:	Bridge No: 8 A1				
Non-Conformance details:					
Household waste. Training required.					
Engineer's Representative:	Giorgi Shiukashvili	Signature:			
Part 2 – Corrective Actions (attach any supporting information)					
Household waste has been cleaned from the construction site. Training has been conducted with personnel.					
			<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 30/04/2021</td> </tr> </table>	Agreed Close-out Date	Date: 30/04/2021
Agreed Close-out Date					
Date: 30/04/2021					
Contractor's Representative:	Ayaz ABDURAHMANOV	Signature:			
Part 3 – Inspection (evidence to support corrective action implementation)					
Done (photo)					
Engineer's Representative:		Signature:			
Closure Date:	30.04.21				

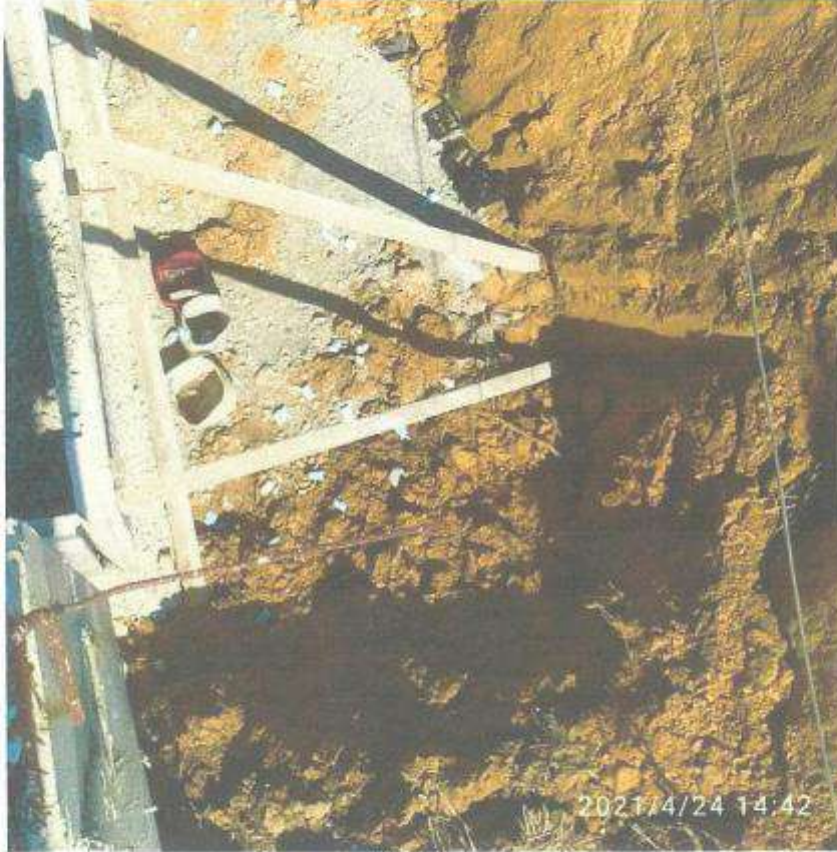



Photo No. 1

Photo 01



Photo 02



Polatyo!	Environmental Non-Conformance Report (ENCR)	 Member of the Surobojati Group
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_110		
Project Name:	Balumi Bypass Road Project	Date raised:	26/04/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Bridge No. 1 A1		

Non-Conformance details:

Oil spill.
Training required.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
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Part 2 – Corrective Actions (attach any supporting information)

Oil spill was removed from the construction site.
Training has been conducted with personnel.

Agreed Close-out Date
Date: 28/04/2021

Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photo)

Engineer's Representative:	Signature: 
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Closure Date:	28.04.21
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ENCR 110



Photo No. 1

Photo-03

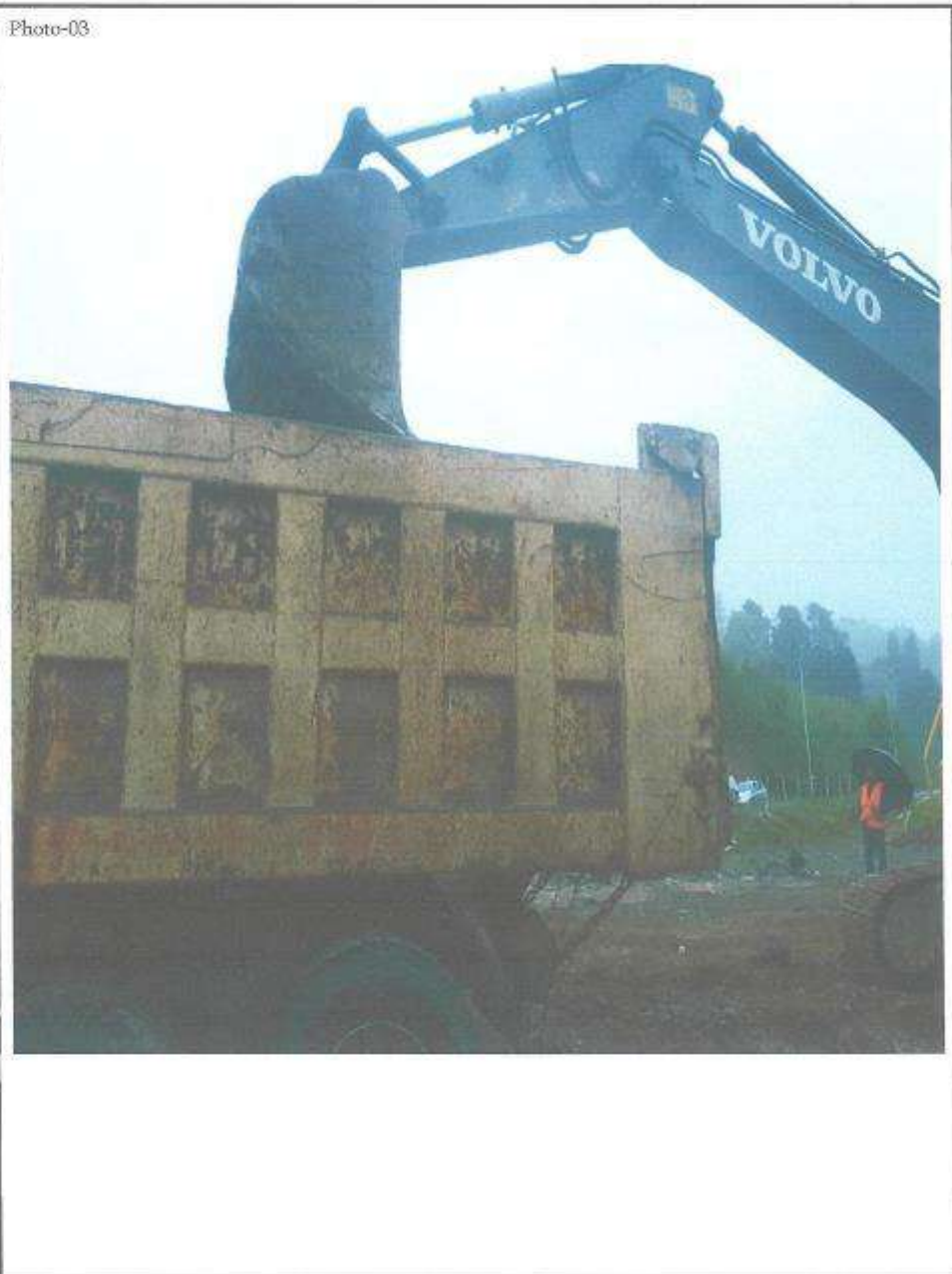



Photo-02



2.

Polatyo!	Environmental Non-Conformance Report (ENCR)	 <small>Member of the Sirtano Group</small>
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_111		
Project Name:	Batumi Bypass Road Project	Date raised:	20/05/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Plant yard		

Non-Conformance details:

Refuelling area barrier has drainage hole and spills oil contaminated water.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
--	--

Part 2 – Corrective Actions (attach any supporting information)

The hole in the refueling area barrier was covered with concrete.

Agreed Close-out Date
Date: 30/05/2021

Contractor's Representative: Ayaz ABDURAHMANOV	Signature: 
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Part 3 – Inspection (evidence to support corrective action implementation)

Done

Engineer's Representative: 	Signature:
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Closure Date:	30.05.21
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Polatyoi

**Environmental Non-Conformance
Report (ENCR)**



Photo-01



Photo-02



Polatyol

**Environmental Non-Conformance
Report (ENCR)**



Part 1 – Non-Conformance Description:

Reference Number: ENCR_112

Project Name: Batumi Bypass Road Project

Date raised: 20/05/2021

Contractor Name: POLATYOL & MAPA JOINT VENTURE

Location: Plant yard

Non-Conformance details:

Oil barrels are stored outside without cover.

Engineer's Representative: Giorgi Shiukashvili

Signature:

Part 2 – Corrective Actions (attach any supporting information)

Oil barrels were stored in the oil barrel storage area properly.

Agreed Close-out
Date

Date: 24/05/2021

Contractor's Representative: Aysz ABDURAHMANOV

Signature:

Part 3 – Inspection (evidence to support corrective action implementation)

Engineer's Representative:

Signature:

Closure Date:

29.05.21

ENCR 112




Photo No. 1




Photo-01



Photo-02



Polatyol	Environmental Non-Conformance Report (ENCR)	 <small>Member of the Surlana Group</small>
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Part 1 – Non-Conformance Description:					
Reference Number:	ENCR_113				
Project Name:	Batumi Bypass Road Project	Date raised:	18/06/2021		
Contractor Name:	POLATYOL & MAPA JOINT VENTURE				
Location:	T2 Portal 2				
Non-Conformance details:					
Contaminated water flows on the slope. Sedimentation basin is required.					
Engineer's Representative:	Giorgi Shiukashvili	Signature:			
Part 2 – Corrective Actions (attach any supporting information)					
Protective measures have been taken to control the contaminated water flows from the piling hole. Sedimentation basin has been provided at tunnel number 2 exit.					
			<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 19/06/2021</td> </tr> </table>	Agreed Close-out Date	Date: 19/06/2021
Agreed Close-out Date					
Date: 19/06/2021					
Contractor's Representative:	Ayaz ABDURAHMANOV	Signature:			
Part 3 – Inspection (evidence to support corrective action implementation)					
Done					
Engineer's Representative:		Signature:			
Closure Date:	19/06/21				

ENCR 113




Photo No. 1

Photo-01



Photo-02



Polatyo!	Environmental Non-Conformance Report (ENCR)	 Member of the Sauraha Jirong Group
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_114		
Project Name:	Batumi Bypass Road Project	Date raised:	18/06/2021
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	T1 Portal 2		

Non-Conformance details:

Household/construction waste.

Engineer's Representative: Giorgi Shiukashvili	Signature: 
--	--

Part 2 – Corrective Actions (attach any supporting information)

Household /construction waste has been removed from the construction site

Agreed Close-out Date
Date: 26/06/2021

Contractor's Representative: Ayaz ABDURAHIMANOV	Signature: 
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Part 3 – Inspection (evidence to support corrective action implementation)

Done

Engineer's Representative:	Signature: 
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Closure Date:	23/06/21
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ENCR 114



Photo No. 1

Photo-01



Photo-04



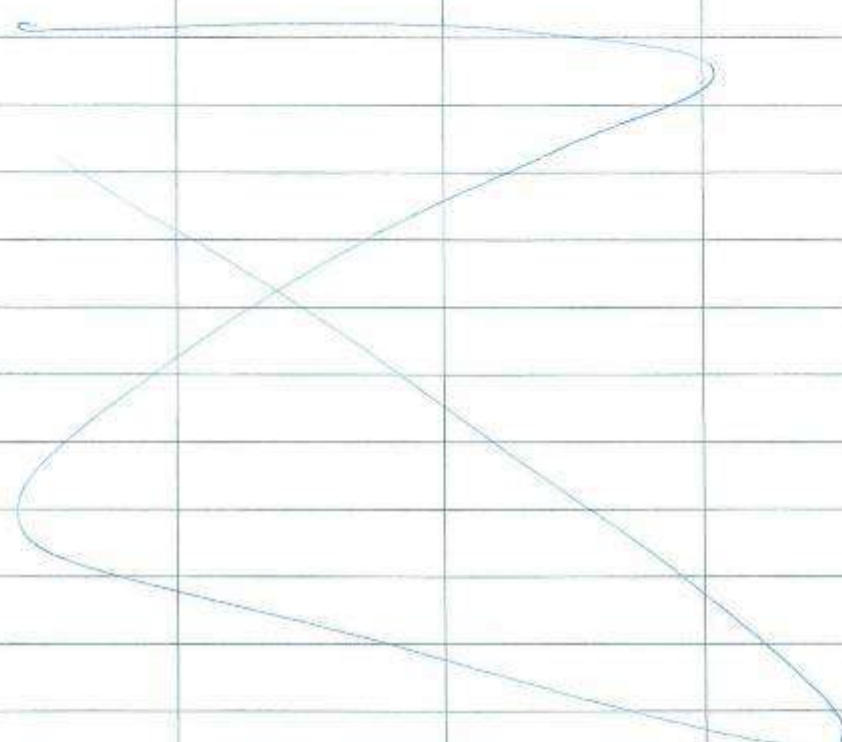

Photo-02.



Annex 6. Training

Polatyo! & Joint Venture

ბათუმის მუნიციპალიტეტის ადგილობრივი მნიშვნელობის
ინჟინერული სამუშაო ადგილის პროექტის უსაფრთხოების საკითხებში

5	გმრს	პაპუა დუ	მშენებლობა	პ.პ.				
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					სახელი	გვარი	თანამდებობა	სელმომწერა
					Polih	GIAPAN	სს	

Polatyoil & Joint Venture

ბადუნის მუშევრობის გზის პროექტის მშენებლობა
ინსტრუქტაჟი სამუშაო ადგილზე შრომის უსაფრთხოების საკითხებში

ლექცია: 3r 1 28.04.2021

Type of Instruction/ ინსტრუქციის სახეობა:	Induction/ინფორმაცია	<input checked="" type="checkbox"/>	Toolbox შეხვედრა	<input checked="" type="checkbox"/>	Instruction ინსტრუქტაჟი	<input checked="" type="checkbox"/>
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Language of Instruction საკონსულტაციო ენა:	Georgian ქართული	<input checked="" type="checkbox"/>	English ინგლისური	<input checked="" type="checkbox"/>	Turkish თურქული	<input checked="" type="checkbox"/>
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Topics of Instruction / Course Title
მუშევრების საგანი და დანახვები:

Use Proper P.P.E., Protect your self, PPE procedure
Protect your Environment, keep a clean your Environment
Drip tray shall be used during maintenance to avoid
Inform your supervisor for any oil leakage, oil pollution.
Food containers and house hold waste shall be kept in
Trash/house hold waste shall be thrown into the designed ^{identified} trash bin
Search for ways to minimize environmental impacts, or barrels.
Construction waste/materials shall be removed from construction site


ყოველივეს იმუშავე უსაფრთხოდ!!!

✓ სამუშაო ადგილას ინსტრუქტაჟი არის სამუშაო პროექტთან დაკავშირებული ფაქტების შესახებ. ის გამოყენებული უნდა იყოს მუშების სახით პროექტში ჩართული თანამშრომლებისათვის. ეს ფორმა უნდა ინახებოდეს შრომის უსაფრთხოების დეპარტამენტში მომავალი მმართველობითი შეზღუდვების მიზნით.

ყოველივეს იმუშავე უსაფრთხოდ!!!

✓ სამუშაო ადგილას ინსტრუქტაჟი არის სამუშაო პროექტთან დაკავშირებული ფაქტების შესახებ მოკლე შესახებ. ის გამოყენებული უნდა იყოს მუშების სახით პროექტში ჩართული თანამშრომლებისათვის. ეს ფორმა უნდა ინახებოდეს შრომის უსაფრთხოების დეპარტამენტში მომავალი მმართველობითი შეზღუდვების მიზნით.

List of Attendees/დასმწრეობის სია

N	სახელი/Name	გვარი/Surname	თანამდებობა/Position	ხელმოწერა/Signature
1	Elder	UMERADZE	FOREMAN	
2	Tamar	DEVDZE	Repair man	
3	Tornab	Abuladze	Fligman	
4	Miran	Ko. VOBANADZE	Fligman	

Polatyoj & [Logo] Joint Venture

Կապիտալի և ծախսերի մուկայնի միջոցով
 անձնակազմի կազմում աշխատող մեծիկի ցածրագույնի կազմում

5	Կապիտալ	Կապիտալ	Կապիտալ	Կապիտալ
6	Կապիտալ	Կապիտալ	Կապիտալ	Կապիտալ
7	Կապիտալ	Կապիտալ	Կապիտալ	Կապիտալ
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	Կապիտալ	Կապիտալ	Կապիտալ	Կապիտալ
	Foth	GAPAN	MS	[Signature]

Polatlyoi & [Logo] (სსიპ) Joint Venture

მათების მუშაობის გზის პროექტის მშენებლობა

ინსტრუქციის სახეობა: ადგილზე შრომის უსაფრთხოების საკითხებში

ლოკაცია: Bridge 8	04/26/2021
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Type of Instruction/ ინსტრუქციის სახეობა:	Induction/ინდუქცია	<input checked="" type="checkbox"/>	Toolbox შეხვეობა	<input checked="" type="checkbox"/>	Instruction ინსტრუქცია	<input checked="" type="checkbox"/>
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Language of Instruction/ საკომუნიკაციო ენა:	Georgian ქართული	<input checked="" type="checkbox"/>	English ინგლისური	<input checked="" type="checkbox"/>	Turkish თურქული	<input checked="" type="checkbox"/>
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Topics of Instruction / Course Title
შეხვეობის საგანი და დასახელება

PPE Procedure, check/inspect your PPE before working
Risks and hazards at construction site. Working at height procedure
Protect your environment, keep clean your work area
Do not throw food containers to construction site
inform your supervisor for any soil spill or pollution at site
Use harness while you are working near the edge
Construction materials shall be stored properly at site
Construction waste shall be removed from construction site
Use face mask, obey Covid-19 precautions/hygiene ^{to general} procedure.

- ✓ ყველათვის იმუშავე უსაფრთხოდ!!!
- ✓ სამუშაო ადგილის ინსტრუქტაჟი არის სამუშაო პროექტთან დაკავშირებული ფაქტების შესახებ. ის გამოყენებული უნდა იყოს შესასრულებელი სამუშაო პროცესში ჩართული თანამშრომლებისათვის. ეს ფორმა უნდა ინახებოდეს შრომის უსაფრთხოების დეპარტამენტში მომავალი მმართველობითი შენიშვნების მიზნით.
- ✓ ყველათვის იმუშავე უსაფრთხოდ!!!
- ✓ სამუშაო ადგილის ინსტრუქტაჟი არის სამუშაო პროექტთან დაკავშირებული ფაქტების შესახებ მოკლე შესახებ. ის გამოყენებული უნდა იყოს შესასრულებელი სამუშაო პროცესში ჩართული თანამშრომლებისათვის. ეს ფორმა უნდა ინახებოდეს შრომის უსაფრთხოების დეპარტამენტში მომავალი მმართველობითი შენიშვნების მიზნით.

List of Attendees/დამსწრეთა სია

N	სახელი/Name	გვარი/Surname	თანამდებობა/Position	ხელმოწერა/Signature
1	შანიანი	სანიანი	სამშენებლო	[Signature]
2	Rozad	გუდოსაძე	შემსრულებელი	[Signature]
3	აბაშიძე	სამშენებლო	სამშენებლო	[Signature]
4	გიორგიანი	გიორგიანი	სამშენებლო	[Signature]

Annex 7. Agreement for dump site



4572-01-01-10-2-201811191453



N 01-01-10/4572

19/11/2018

უცხოური საქარბის სს „ვილიაი იილ იაფი ხანაი ვე თიჯარვი“-ის
საქართველოს ფილიალის დირექტარს აიდიმ დოლაის
იურ. მის. ქ. თბილისი, ლავიის N39
დაქტ. მის. ქ. ზათუმო, თბირეხის ქ. N97
ს/ს 404903707
საქ. პირ. ტელ: 595 61 56 56

ჩუბოხოაიდიმ,

ოქტერი 2018 წლის 01 თუტომბრის NTMO/18/0092 წერილის პახუხად დამატეზიო
ფაქტობები, რომ აჭარის ავტონომიური რესპუბლიკის ფინანსთა და ეკონომიკის სამინისტრო
არ არის წინადმდევი, უცხოური საქარბის სს „ვილიაი იილ იაფი ხანაი ვე თიჯარვი“-ის
საქართველოს ფილიალმა მოქრედი კომინტეზიონის უქტაპასად, ქ. ზათუმო,
აეროპორტისა და ეახარის დასახლებამო შედებარე აჭარის ავტონომიური რესპუბლიკის
იკუტარტამო არხუბულ 2 გროიულ არასახოფლო სამტურნეო დანიშნულეხის შიწის საეკეოზე
(სკ 05.32.06.026 და სკ 05.32.05.022) ჯანახორციელოს წერილში ხუენეზული მიწის მახის
დაყრა, იმ პირობით თუ აჭარის ავტონომიური რესპუბლიკას არ წარმოეზონა რაიმე სახის
ვალდებულეხა და სამუშაოეხის დასრულეხის შემდეგ დაყრილი მიწის საეკეო იქნება
შოსწორეხულა.

მატევისევიმთ.

ჯანა დეტკარაძე

მინისტრო