

Semi-Annual Environmental Monitoring Report

12th № Semestral Report

Reporting Period: January-June 2023

Project Number: 50064-001

Loan Number: 3520-GEO

Republic of Georgia: Batumi Bypass Road Project

Financed by the Asian Development Bank and the Asian Infrastructure Investment Bank.

Prepared by Roads Department (RD) for the Ministry of Regional Development and Infrastructure of Georgia (MRDI) and the Asian Development Bank (ADB).

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Abbreviations

ADB	Asian Development Bank
AiIB	Asian Infrastructure Investment Bank
APs	Affected persons
BOT	Batumi Oil Terminal
BoQ	Bill of Quantities
BR	Bridges
CSCS	Consultancy Services for the Construction Supervision
CPT-SPT	Cone Penetration Test - Standard Penetration Test
dB	Decibel
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMR	Environmental Monitoring Report
ENCR	Environmental Non-Conformance Report
EOT	Extension of Time
GRC	Grievance Redress Committee
IPC	Interim Payment Certificate
MoEPA	Ministry of Environmental Protection of Ajara
POW	Program of Works
PVD	Prefabricated Vertical Drains
RC	Reinforced Concrete
RD	Road's Department
RoW	Right of way
SSEMP	Site Specific Environmental Management Plan
TOR	Terms of Reference
VAT	Value Added Tax
BB- road project	Bakurtsikhe Tsnori road project
PB- roads project	Poti Bridge and access roads project

1 INTRODUCTION

1.1 Preamble

1. Batumi Bypass Road Project: Major Change in Project (Change in Scope, Amount, and Implementation Arrangements) was conducted in September 2019. The major change is an increase in project scope through the addition of a fourth output under the project comprising two additional construction subprojects: a new bridge and approach roads over the Rioni River in Poti and a new bypass road from Bakurtsikhe to Tsnori. Reallocation of existing savings can be utilized to fund the new output, which will reinforce the project's impact of improving regional connectivity in Georgia. The change is considered major because it fundamentally affects the approved project scope and outcome by more than doubling the length of roads and/or bridges to be built. For the Batumi-bypass road project the approved revised project completion date of 31 December 2022 is subject to a further extension which will be reported in the next Report. For the Poti Bridge and Access Roads the project completion date is 1 May 2024 and for the Bakurtsikhe-Tsnori Road Project the project completion date is 1 March 2024. This report represents the Semi - Annual Environmental Monitoring Review for Batumi Bypass Road; construction of Poti Bridge and Access Roads and Construction of Bakurtsikhe-Tsnori Road Projects for the period of January - June 2023. This report is the 12th Semi-Annual EMR for the Batumi Bypass Road Project and 4th Semi-Annual EMR for the construction of Poti Bridge (please see attachment 1) and Access Roads and Construction of Bakurtsikhe-Tsnori Road Project (please see attachment 2).

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 the 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 bypassing 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 of 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 a 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 of 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 Asian Infrastructure Investment Bank 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 and a Resettlement Action Plan were prepared for the Project and disclosed on ADB website on 27 March 2017. The Roads Department of the Ministry of Regional Development and Infrastructure of Georgia submitted an EIA to the Ministry of Environment and Natural Resources Protection on 18 August 2017. The EIA was approved by MoEPA on 30 August 2017.

Figure 1. Project Location Map



Table 1. Project Information

PROJECT ITEM	DETAILS
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 with Sub-consultants: Uniprof Group Ltd and Lider + Ltd
Contractor	JV Polatyol & 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 • 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 • 30 July 2021: section Km 12+870 – Km 12+980
Contract Period	1753 days
Original Completion date	30.08.2020
Time Extension (EOT No. 1)	31.12.2021
Time Extension (EOT No. 2)*	31.12.2022
Expired time	1934 days
Remaining time	-181 days
Defects Notification Period	3 years
Accepted Contract Price (GEL)	329,630,734.78 GEL (VAT included)
Revised Contract Price (GEL) as per Contractor's revised cash flow submission of 30 June 2022	367,903,168.39 GEL (VAT included)

*Note that a further time extension to May 2024 was under review at the time of writing this Report.

2.2 Project Contracts and Management

9. The Contract for CSCS was awarded to SMEC International Pty Ltd in 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 1753 days.

Phase 3 – Defects Notification Period, three years.

10. The TOR for the CSCS Contract contains the following tasks for the Environmental Specialists:
- Ensure that the provisions of the approved Environmental Management Plan are reflected in the Contractor’s 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
 - Make sure that approved SSEMP is reflected in the Supervision Consultant’s monthly and quarterly report for further compliance of the Contractor
 - 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
 - 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>Zaigham Naqvi Senior Transport Specialist E-mail: znaqvi@adb.org</p> <p>Ninette R. Pajarillaga Senior Environment Specialist, Country Environnemental Focal E-mail: npajarillaga@adb.org</p> <p>Nino Nadashvili Associate Safeguards Officer Georgia Resident Mission E-mail: nnadashvili@adb.org Cell: +995 595 070442</p> <p>Giorgi Kobaladze RETA/ADB National Environmental Consultant Cell: +995599689834 e-mail: gkobaladze.consultant@adb.org</p>
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Asian Infrastructure Investment Bank	Runze Yu -Investment Operations Specialist E-mail: runze.yu@aiib.org
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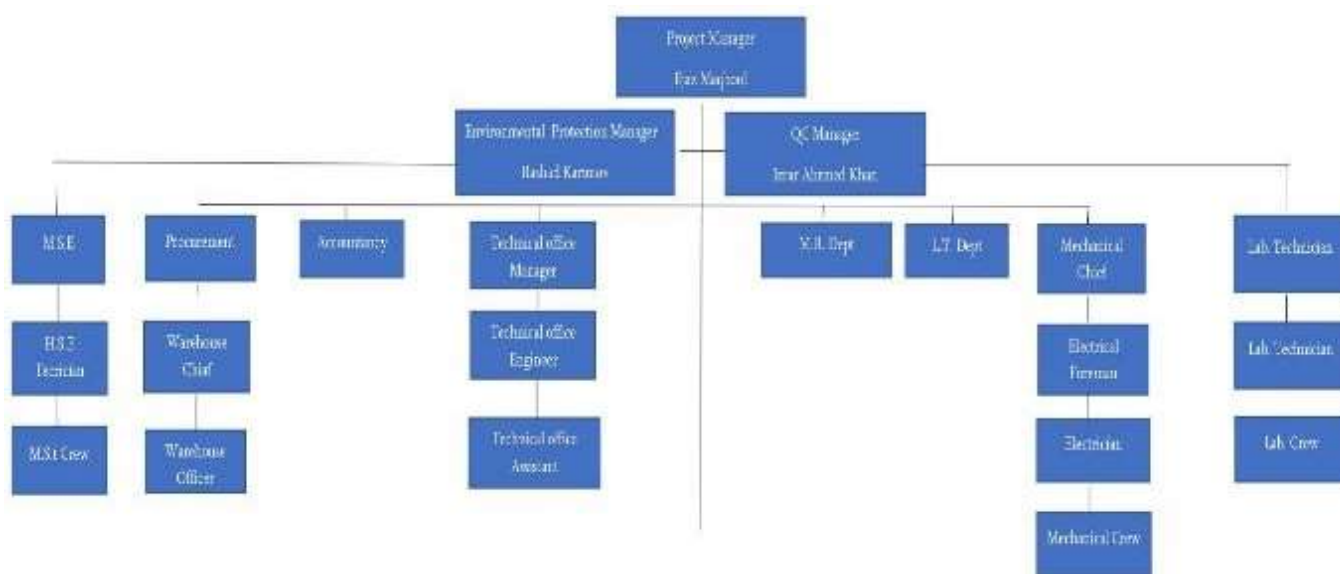
12. Under the Contract, the Contractor shall comply with all applicable national, provincial, and local environmental laws and regulations as well as applicable respective standards under the Contract. The Contractor shall:
- (a) Establish an operational system for managing environmental impacts,
 - (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. Polatylol & 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 Polatylol & Mapa Joint Venture services site management team conforms to all environmental aspects in accordance with Polatylol & 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 Contractor management staff is provided in **Figure 2**.

Figure 2. Contractor's Project Management Staff



2.3 Project Activities during Current Reporting Period

15. Total Project Progress at the end of December 2022 actual paid progress was 77.66%. As of end of June 2023 is recorded actual paid progress of 81.95% against Planned progress of 100% with the lag of 18.05%.
16. During the reporting period, there were several meetings and discussions between all stakeholders including Employer, Contractor, ADB representatives and the Engineer concerning the low rate of progress of the Contractor.
17. The cumulative physical progress for the 1st Qtr 2023 as reflected in the IPC No. 30 as of 1 March 2023 was 79.27%.
18. The cumulative physical progress for the 2nd Qtr 2023 as reflected in the last IPC No. 31 as of 9 June 2023 is 81.49%.
19. During the 1st Qtr 2023, the Sub-Contractor G Systems continued with the relocation of the Batumi Oil Terminal utilities and the latest schedule for completion is 07 April 2023. The Contractor was also completing the relocation of Water, Gas and Fibre

- Optic cables (Silknet and Max lines) within the Highway corridor at Interchanges 1, 2 and 4, and the Lighting system also at Interchange 1.
20. During the 2nd Qtr. 2023, the Contractor missed all the deadlines for the relocation of the pipelines within the Batumi Oil Terminal (BOT). The Contractor completed the installation of 10 No Piles for the Bridge No.5 Abutment A1 that is located within the boundary of the Batumi Oil Terminal, however there is a wall obstructing the works to continue. The BOT Management stated that the permission to demolish the wall will be given when the Contractor completes 100% of the relocation works in the Batumi Oil Terminal. At the end of the 2nd Qtr., the situation remains the same with very little progress.
 21. The Contractor was also completing the relocation of Water, Gas and Fibre Optic cables within the Highway corridor at Interchanges 2 and 4. At the end of the 2nd Qtr. the Contractor continued with the detailed Design of the electrification of the Tunnels.
 22. During the reporting period, the Contractor had low progress in all the tunnel works. As of end of June, the situation in Tunnel No. 1 Entrance portal is 96.78m, and for Tunnel No. 1 Exit portal, works recommenced during the 2nd quarter with total NATM achieved 117.81m. Total NATM advance for Tunnel No. 1 at the end of the reporting period is 214.59m.
 23. In Tunnel No. 2, at the end of the reporting period excavation reached to 596.93m with 11m remaining until breakthrough. There have not been any activities from the Exit portal during the reporting period. The Contractor has not yet submitted outstanding design for Tunnel No. 2 Emergency Exit.
 24. In Tunnel No. 3 Utility boxes and drainage works continued during the 2nd Qtr of 2023. Works were again suspended for Tunnel No. 3 Emergency Exit in May 2023.
 25. In Tunnel No. 4 during the reporting period cut and cover works were ongoing and during 2nd quarter the Contractor completed 10 sections.
 26. In Tunnel No. 5 no works have been carried out during the reporting period.
 27. The Contractor submitted to the Engineer on 17 December 2022 the MEP BoQ as to the electrification in the Tunnels including Jet Fans and LED Lighting instead of sodium lighting as in the Contract. The Engineer sent the submission to the Employer for review and recommended to proceed with LED lighting instead of Sodium Bulbs, however, the Employer rejected and instructed to proceed as per Original Design. However, a further meeting took place in the Engineers office with Employer and ADB and the LED lighting was discussed, and it was agreed to get 3 No Vendor quotes, this was communicated to the Contractor at end of March 2023. The situation remains the same at the end of the 2nd Qtr, 2023 after many reminders sent to the Contractor to submit the Vendors.
 28. The construction of the Bridges during the reporting period had low progress. Rebar and formwork were ongoing at various Bridges. The Contractor continued with the placement of fill and REW at Bridges 6A, 6C and 6D respectively with the placement of Beams on Bridges No. 2 and 3. Also the continuation of Bridge walkways and parapet walls continued during the 2nd Qtr, 2023. However, there is a significant lack of essential resources due to the financial issues of the Contractor and hence the Bridge Works are far behind schedule.
 29. The Earthworks progress is approx. 65% completed. During the 1st Quarter 2023, the Contractor did not recommence any filling works on the embankment. The works recommenced at the slope protection piling at KM5+476 with completion of the total installation of 79 piles. During the 2nd Qtr, 2023 the progress of Embankment construction was slow with the placing of fill in Interchange 4, KM12+430-KM12+600

and reached 16 layers. The placement of the fill had stopped until the settlement has stabilized within this section where there is soft subsoil. Also, during the 2nd Qtr 2023, excavation continued at KM7+532-KM7+663, in a high cut section.

30. At the end of the reporting period, the Contractor has not submitted any claims on Extension of Time (EOT). The Programme of Works still is not submitted, and the discussions are ongoing regarding the continuation of the Project.
31. The Contractor submitted the monthly statement and respectively IPC No. 31 was prepared by the Engineer for the month of June 2023. However, overall progress is still low and the discussions regarding the completion of the project are currently ongoing between all the stakeholders.

Table 3. Construction Progress

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
I. 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	m ³	244.00	509.23	208.00	
	Demolition of buildings	m ³	92,700.00	56,629.50	61.08	
II. Earthworks						
2	Topsoil removal	m ³	56,000.00	9,422.19	16.82	
	Removal of unacceptable soil at any level, withdrawal at stockpile/embankment area (according to the instruction)	m ³	137,520.24	295,293.25	214.72	
	Arrangement of embankment material to design level	m ³	603,734.55	424,384.55	70.29	
	Provision, allocation and compaction of acceptable material from the borrow pit at weak and hollow areas	m ³	6,890.00	13,789.63	200.13	
	Filling the embankment with soil excavated from Tunnel	m ³	320,519.00	116,815.13	36.44	
III. 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	2	66.70	
	Precast RC pipe - d= 1,50m	piece	28	12	42.9	
	Precast RC pipe - d= 1,00m	piece	7	0	0	

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	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	
IV. Slope Stabilization						
RC Retaining Walls						
4.1	km 0+160 - km 0+400	m	240.00	216.00	90.00	
	Km 2+178 - km 2+215	m	37.00	37.00	100	
	km 3+941 - km 3+951	m	10.00	0	0	
	km 7+534 - km 7+663	m	145.80	20.00	13.72	
	Km 8+730 - km 8+760	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	73.92	100	
	Km 5+955 - km 5+994	m	30.85	30.85	100	
Km 12+097	m	18.4	18.4	100		
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

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	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	73.6	100	
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	
4.12	RC Retaining Wall at Km0+080-Km0+110	m	30	30	100	
4.13	CL 300 - CL 301 RC Retaining Wall	m	84.35	42.23	50.07	
4.14	Km 12+465 - Km 12+720 RC Retaining Wall	m	465.0	393.6	84.65	
4.15	Km 5+955 - Km 5+794 RC Retaining Wall	m	30.85	12.10	39.22	
4.16	Km 5+476 - Km 5+636 RC Piled Wall	m	160	152.0	95.0	
4.17	Km 0+612 - Km 0+686 RC Retaining Wall	m	60.60	6.0	3.64	
V. Bridges						
5	Bored piles: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	1,558.00	1,500.00	96.28	
	Pile cap: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B;	Unit	142.00	142.00	100	

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	BR-6C: BR-6D; BR-08A					
	Column: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	282.00	279.00	98.94	
	Crossbar: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	120.00	119.00	99.17	Construction in progress
	Back wall and wingwall: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	36.00	34.00	94.45	Construction in progress
	Installation RC beams: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	667	582	87.26	
	Unification of prestressed beams by cast in situ RC concrete slab	m	4,669.0	3,610.0	77.32	Construction in progress
5.1	Construction of cast in situ sidewalk	m	4,669.0	3,460.0	77.32	
5.2	Construction of cast in situ rails	m	4669.0	1,930.0	41.34	
VI. Tunnels						
Tunnel No. 3						
6	Drainage system arrangement	m	805	805	1000	
	Utility Box arrangement	m	1610	1610	100	
	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	749.0	749.0	100	
	Construction of permanent lining	m	749.0	749.0	100	
	Arrangement of Portal part	m	56	56	100	
Tunnel No. 4						
7	Construction of pile wall system at the exit portal	u	203	203	100	
	Utility channel	m	2,134	1,656	77.6	
	Soil excavation at the entrance portal	1000 m ³	51.25	51.25	100	
	Tunnel excavation and installation temporary lining	m	843.0	843.0	100	

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	Construction of permanent lining	m	843.0	843.0	100	
	Arrangement of the Portal Part	m	224	206.00	92.0	
	Arrangement of the Drainage System	m	1,067.00	800.00	75.00	
Tunnel No. 5						
8	Tunnel excavation and installation of temporary lining				100	
	Portal excavation				100	
	Installation of waterproofing	m ²	20,650.0	20,650.0	100	
	Installation perforated PVC pipes	m	1,084.00	1,084.0	100	
	Filter concrete (C12/15)	m ³	8.0	8.0	100	
	Cast-in-situ concrete for drainage	m ³	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	Arrangement of the Piled Wall System at the Entrance Portal	u	131	131	100	
	Construction of pile system wall at the exit portal	u	131	131	100	
	Tunnel excavation and construction of temporary lining	m	503	175	35.5	
	Vertical Jet Grouting	u	625	625	100	
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	600.00	83.3	
12	Construction of pile system wall at the exit portal	u	96	96	100	

32. In December 2022, the total number of Contractor's personnel was 328, 94 of whom were foreigners and 234 were local (Georgian) employees, in June 2023 the total number of personnel is 441, 121 of whom are foreigners and 320 are locals (**Table 4**).

Table 4. Contractor's Personnel as of June 2023

N	POSITION	POLATYOL		SUBS		SUM
		Foreign	Local	Foreign	Local	
1	Project Manager	1	0	0	0	1
2	Site Manager	1	0	0	0	1
3	Engineer staff	8	0	0	0	8
4	Technical office	4	1	0	0	5
5	Technicians	4	0	0	0	4
6	Skilled Labour	11	41	0	0	52
7	Unskilled Labour	2	20	0	0	22
8	Driver	1	33	0	14	48
9	Operator	5	16	0	0	21
10	Finance & Administration	1	2	0	0	3
11	HSE Team	1	1	0	0	2
12	Environmental Manager	1	0	0	0	1
13	Foreman	6	0	0	0	6
14	Repairman	3	1	0	0	4
15	Security	0	48	0	0	48
16	Forest Expert	0	0	0	0	0
17	Mechanical Department	5	2	0	0	7
18	Tunnel works Subcontractor	0	0	23	47	70
19	Concrete works (Subcontractor)	0	0	22	54	76
20	Pile construction team (Subcontractor)	0	0	6	6	12
21	Blasting works (Subcontractor)	0	0	0	2	2
22	Stone column works (Subcontractor)	0	0	0	0	0

N	POSITION	POLATYOL		SUBS		SUM
23	Pre-cast beam (Subcontractor)	0	0	10	23	33
24	Designer	1	0	0	0	1
25	Catering service Subcontractor	0	0	5	9	14
	Total	55	165	66	155	441

Figure 3. Contractor's Personnel as of June 2023

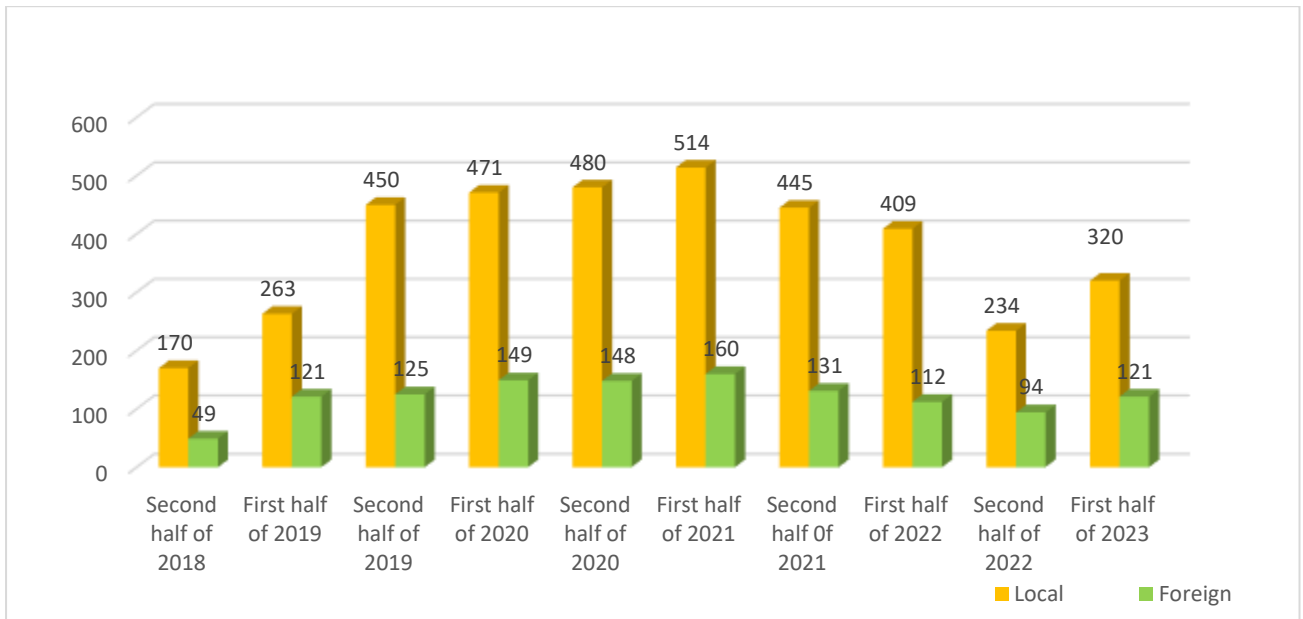
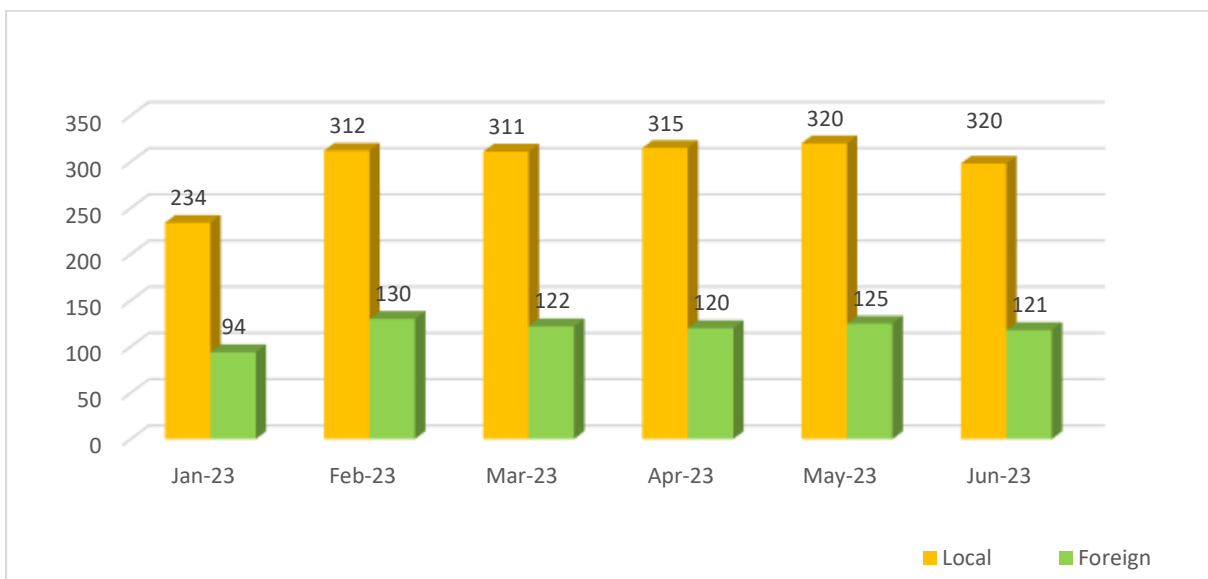


Figure 4. Contractor's Personnel during Reporting Period



2.4 Changes to Project Design and Agreed Construction Methods

33. The list of Variations made to the Project is outlined in **Table 5**. The variations made are similar to other Works undertaken within the Project, therefore, in case of any environmental impacts respective preventive measures apply.

Table 5. List of Variation Orders during January-June 2023 Reporting Period

Variation No	Date	Description of the Variation Orders
085	18.01.2023	Regarding the RC Retaining Wall at section km 0+313 - km 0+390
086	27.01.2023	Regarding the RC Retaining Wall at km 6+799 - km 6+805
087	14.03.2023	Regarding the Relocation of Fibre-Optic Networks at section CL100
088	14.03.2023	Regarding the Relocation of Fibre-Optic Networks at section km 0+000 - km 0+550 and km 12+920 - km 12+980 (CL100)
089	24.03.2023	Regarding the Replacement of Terramesh System with Monolithic RC Pile Retaining Wall at km 5+476 – km 5+636
090	24.03.2023	Regarding the Arrangement of Additional Monolithic RC Retaining Wall at km 12+097 (Bridge No. 13A A2)
091	24.03.2023	Regarding addition of RC Pile Retaining Wall at km 0+100 – km 0+109
092	01.05.2023	Regarding the Arrangement of the RC Retaining Wall at km 0+860 - 0+910
093	02.05.2023	Regarding the Arrangement of the Access Road to the Land Plots
094	02.05.2023	Regarding the Arrangement of the Water Pipes for 19 Families
095	20.06.2023	Regarding the Arrangement of the RC Retaining Wall adjacent to the Bridge No. 3.1
096	20.06.2023	Regarding the Arrangement of the RC Retaining Wall adjacent to the Bridge No. 3.1
097	27.06.2023	Concerning the Arrangement of the Water Supply System at km 2+220 – km 2+420

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

34. During daily monitoring, the Engineer's environmental specialists 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.
35. Consultant's International Environmental Specialist Mr. Michael Holics was not mobilized during the reporting period. Mobilisation is expected in July 2023. During this period, Mr. Holics contributed to the project based on home input supporting local environmental specialists.
36. As for the site assessment, in addition to weekly visits to relevant sites, at the end of each month there is full in-depth site visit undertaken by the Engineer and findings are sent to the Contractor for follow up. During the reporting period access to the site was not limited, however, safety warning signages were placed by the Contractor.
37. Where non-compliance is detected during the monitoring process, the non-compliance is recorded with the photo evidence, and an Environmental Non-Conformance Report (ENCR) is issued and sent to the Contractor. The list of letters sent to the Contractor by the Engineer, where above-mentioned environmental issues are described and copies of the ENCRs are enclosed in **Annex 5 – [ENCRs]** of this report.
38. The Engineer's environmental specialists prepare monthly, quarterly, and semi-annual reports which are submitted to the Roads Department. These reports summarise all construction activities and their environmental impact; describe the Environmental Specialist's monitoring and site inspection activities; and lists ENCRs (and their status) issued to the Contractor.
39. The Contractor's environmental specialist Mr. Rashad Kerimov (International) visited the Project site during May for a few days.

3.2 Site Monitoring/Inspections

40. In the first half of 2023 (January–June) the Engineer's specialists Tengiz Lagidze and Giorgi Shiukashvili conducted weekly 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 1, 2, 3, 4, 5, 6, 6a, 7, 8, 8a, 9, 10, 11, 12, 13
 - ▶ Road sections
 - ▶ Interchanges 1, 2, 3, 4
 - ▶ Precast yard
 - ▶ Concrete mixing plant

3.3 Environmental Issues Tracking

41. During the reporting period, the works had a very low progress, however numerous non-compliances were identified at Construction sites at various locations. Common non-compliances included:
- Construction and household (plastic containers etc.) waste pollution
 - Waste concrete contamination
 - Improperly stored materials
 - Metal scrap waste is not properly disposed
 - Waste burning on site
42. Issues are tracked via letters (See **Annex 5 ENCRs and letters**) and Non-Conformance notices, which are summarized in **Table 6** for the current reporting period as well as for the Project to date.

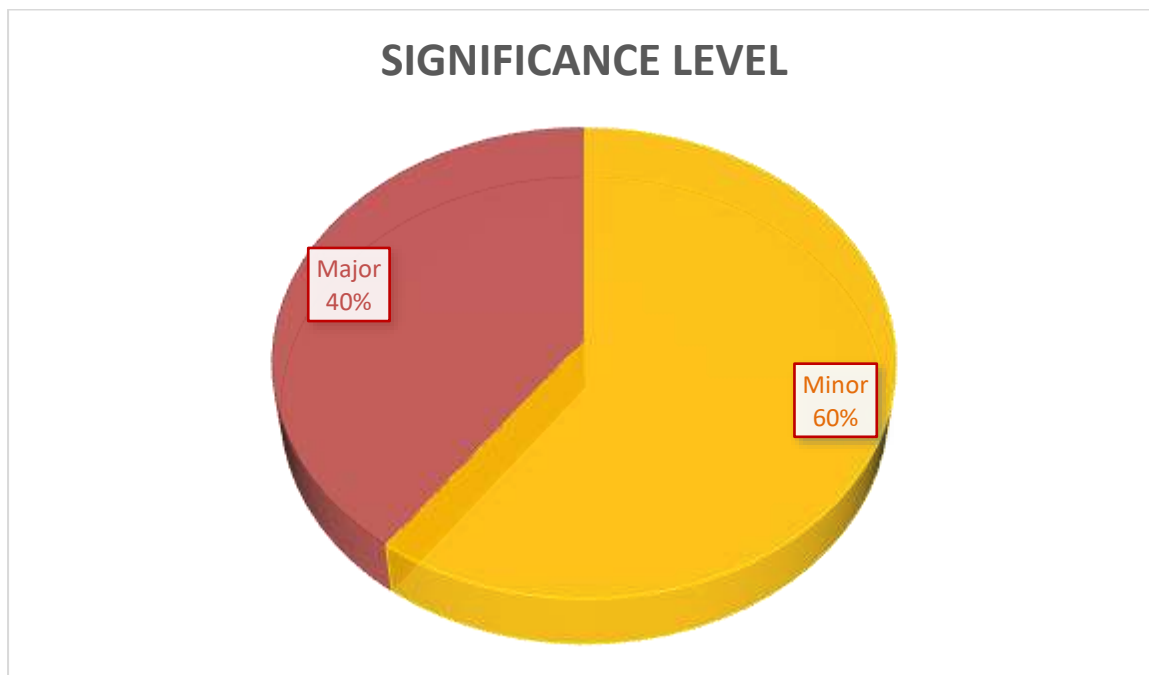
Table 6. Summary of Environmental Issues Tracking Activity for the Project

Total Number of Environmental Issues for the Project	
Number of Issues Raised since start of Project	215
Number of Closed Issues	212
Percentage Closed	99%
Issues Opened this Reporting Period (January–June 2023)	14
Issues Closed this Reporting Period (January–June 2023)	13

Note according to the Engineer’s ENCR Register, ENCR 127 household waste at Tunnel No. 1 entrance and ENCR 128 household waste at Bridge No. 1 remain open.

43. Further to **Table 6, Figure 5 below** differentiates the environmental issues by significance level from Minor to Major. Each issue is assessed individually by the Engineer according to the scale of violation and impact on the environment. Below figure reflects the percentage of minor and major environmental issues during the reporting period.

Figure 5. Summary of Non-Conformance by Significance Level



44. From mentioned 14 non-conformances, 13 are closed. The latter issues have been followed up by the Environmental Non-Conformance Reports (ENCR) and via letters of the Engineer with established deadlines for implementation of corrective actions. More details of non-conformances are given in **Table 8**.

45. Copies of issued ENCR's with corrective measures and photo materials can be found in **Annex 5 – [ENCRS]**.

3.4 Non-Conformance Notices

46. **Table 8** lists the non-conformances which occurred during the reporting period.

47. The Contractor was informed about the pending environmental problems and an action plan was prepared for the Contractor to implement corrective actions within a defined timeframe for mitigation of non-conformances. Details are included in **Table 8**.

Table 7 Implementation Status of Corrective Actions proposed in the last environmental monitoring report July-December 2022

N	ENCR	LOCATION	DESCRIPRION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
July 2022						
1	ENCR 131	Tunnel No. 4 Exit portal	Plastic waste	Waste should be collected. Burning is prohibited	February	Completed February
2	ENCR 132	Bridge No. 9 A2	Plastic waste. Waste burn	Waste should be collected. Burning is prohibited	February	Completed February

N	ENCR	LOCATION	DESCRIPRION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
November 2022						
4	ENCR 133	Tunnel No. 1 Entrance portal	Oil spill from the damaged excavator	Contaminated soil should be removed, absorbers and drip trays should be mobilized	March	Completed March
5	ENCR 134	Tunnel No. 2 Entrance portal	The tunnel entrance is contaminated by oil. Chemical storage is not insulated. The maintenance area is not insulated. No oil absorbers are mobilized. Household construction waste is spread all over the territory. Waste burn is observed.	Territory should be arranged properly. Training is required	March	Completed March
December 2022						
6	ENCR 135	Tunnel No. 3 Entrance portal	Oil spill from barrel contaminates soil and water	Contaminated soil should be removed	December	Completed May
7	ENCR 136	Construction campsite	Refueling area is not insulated and properly covered	Refueling area should be insulated	December	Completed May

Table 8 Identified non-conformances for January-June 2023 reporting period

N	ENCR	LOCATION	DESCRIPTION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
January 2023						
1	ENCR 137	Br. No. 1 A2	Household waste. Waste incineration. No waste bin arranged.	Area should be arranged properly. Training is required	February	Completed February

N	ENCR	LOCATION	DESCRIPTION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
2	ENCR 138	Tunnel No. 1 Entrance portal	Waste incineration Overfilled waste bin	Area should be arranged properly. Training is required	February	Completed February
3	ENCR 139	Tunnel No. 2 Entrance portal	Waste incineration	Waste should be removed. Training is required	February	Completed February
4	ENCR 140	Tunnel No. 2 Entrance portal	Oil spill No absorbers arranged	Contaminated soil should be removed to the temporary storage	January	Completed January
March 2023						
5	ENCR 141	Batching Plant No. 2	Bad housekeeping Plastic waste	Territory should be arranged properly. Waste should be removed to the dumpsite	March	Completed March
6	ENCR 142	Precast yard	Bad housekeeping Household/construction waste	Territory should be arranged properly. Waste should be removed to the dumpsite	March	Not completed
7	ENCR 143	Tunnel No. 1 Entrance portal	No sediment basin was arranged before excavation. Water is contaminated with mud	Sedimentation basin is necessary	April	Completed
8	ENCR 144	Tunnel No. 2 Entrance portal	Bad housekeeping Waste incineration	Area should be arranged properly. Training is required	March	Completed March
9	ENCR 145	Br. No. 11	Waste incineration	Waste should be removed to the dumpsite. Incineration is prohibited. Environmental training is	March	Completed March

N	ENCR	LOCATION	DESCRIPTION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
				required		
April 2023						
10	ENCR 146	Tunnel No. 3 Entrance portal	Waste incineration	Waste should be removed to the dumpsite. Training is required	April	Completed May
May 2023						
11	ENCR 147	Batching Plant No. 2	Bad housekeeping. Plastic waste. Waste incineration	Waste should be removed to the dumpsite. Training is required	June	Completed June
12	ENCR 148	Br. No. 7.1	Plastic waste	Waste should be removed to the dumpsite. Training is required	June	Completed June
June 2023						
13	ENCR 149	Precast yard	Oil spill from oil storage area and soil/water is contaminated. Oil storage barrier has hole and can't perform its function. Oil barrels stored outside the area	Contaminated soil should be removed. Barriers should be insulated properly. Oil barrels (including empty barrels) should be stored in the insulated area	June	Completed June
14	ENCR 150	Construction campsite	Oil barrels are stored on the ground outside the storage area. The storage barrier can't perform its function. No absorbers arranged	Oil barrels should be stored in the insulated area. Barriers should be insulated properly.	June	Completed June

48. There are no non-conformances pending from the last Semi-Annual Environmental Monitoring Report.
49. The Contractor mobilised a local HSE Specialist Mr. Davit Metreveli who is on site full time and conducts site checks and monitoring.

3.5 Trends

50. Most of the violations by the Contractor are related to waste management. Despite numerous recommendations by the Engineer on how to resolve this issue, the Contractor does not take necessary steps and does not act proactively to avoid environmental pollution, such as plastic waste, waste concrete, oil spills, burning of waste etc.
51. Compared to the last reporting period, the number of issued ENCR significantly increased, also correction time was commonly delayed. Seven ENCRs were issued in the second half of 2022 while 14 ENCRs were issued in the first half of 2023. The nature of the violations has generally remained the same (dumping of plastic food containers and waste incineration at construction sites), however pollution of the environment by oil products has been reduced.

3.6 Unanticipated Environmental Impacts or Risks

52. During the reporting period, there were no unanticipated environmental impacts or risks on the Project.

4 RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Contractor’s Monitoring during Current Period

53. 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. Results can be found in **Annex 3 [Water Quality Results]**. The results of water quality tests are within Maximum Permissible Concentrations (see **Table 9**).

4.1.2 Water Quality Monitoring

Table 9. Chemical and Bacteriological Analysis of River Water

N	Parameter	Makhvilauri km11+500	Salibauri km5+300	Benze km4+700	Gantia di km3+900	Makhinjauri km1+950	Makhinjauri km0+550	Garadoki km7+500	Maximum Allowable
1	Chlorides	24.8 mg/l	-	31.9 mg/l	-	40.4 mg/l	35.5 mg/l	29.0 mg/l	350
2	Sulphates	13.0 mg/l	-	17.0 mg/l	-	17.0 mg/l	16.0 mg/l	15.0 mg/l	500
3	Poly-phosphates	<0.01 mg/l	-	<0.01 mg/l	-	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	5
4	Nitrates	0.22 mg/l	-	0.19 mg/l	-	0.21 mg/l	0.2 mg/l	0.25mg/l	25
5	Alkalinity	2.3 mg/l	-	0.7 mg/l	-	1.1 mg/l	1.0 mg/l	1.2 mg/l	-
6	Lead	<0.004 mg/l	-	<0.001 mg/l	-	<0.001 mg/l	<0.002 mg/l	<0.002 mg/l	0.03
7	Zinc	0.06 mg/l	-	0.05 mg/l	-	0.05 mg/l	0.08 mg/l	0.04 mg/l	1

*Quarterly monitoring of the water quality was done on 29.03.2023 and 03.07.2023. Maximum allowable limits are based on Georgian standards for surface water quality as approved by the Ministry of Labour, Health and Social Protection.

4.1.3 Noise, Air Quality and Vibration Monitoring

54. The contractor hired an independent laboratory LEPL “Laboratory Research Centre” to conduct noise (**Annex 2 – Table 10**) and air quality analysis.

55. The Contractor measured PM2.5 and PM10 only once in the reporting period (in the 2nd quarter of 2023) and due to the fact that construction works were temporarily suspended the Contractor did not monitor the parameters in the first quarter (**Table 11**).

56. The Contractor failed to undertake air quality monitoring as stipulated by the Engineer to meet the Georgian and IFC requirements. The Contractor was required

to do monthly monitoring instead of quarterly monitoring as also requested by ADB during the last site visit in May 2023.

57. Blasting time is strictly controlled and is allowed only during daytime to avoid disturbance of residents and to comply with requirements of the 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 so there are no negative effects due to vibration or noise on sensitive receptors. 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 further limited to 5. As the discharge force is unchanged, vibration testing is conducted at different locations and ranges within PPV-5 and are acceptable.

Table 10. Noise Measurement Results

Location	First Quarter 2023	Second Quarter 2023
Makhinjauri km0+550	41.8 dB	41.1 dB
Makhinjauri km1+950	38.2 dB	42.6 dB
Gantiadi km3+900	42.8 dB	41.4 dB
Benze km4+700	42.2 dB	41.5 dB
Salibauri km5+300	45.3 dB	- dB
Makhvilauri km11+500	44.2 dB	39.4 dB
Garadoki km7+500	42.9 dB	- dB

58. Certified laboratory LEPL “Laboratory Research Centre” 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 2 [Air Quality and Noise Monitoring Results]** to the report.

Table 11. Summary of Air Quality Parameters Measured

Measurement Parameter			Allowed Norm	Source of Pollution
PM2.5 (µg/m3)	Allowable Concentration	24 Hour	25	Construction Works
	Result - Location N1	20 Minute	8	
	Result - Location N2	20 Minute	7	
	Result - Location N3	20 Minute	6	
	Result - Location N4	20 Minute	5	
	Result - Location N5	20 Minute	5	
PM10 (µg/m3)	Allowable Concentration	24 Hour	50	
	Result - Location N1	20 Minute	21	
	Result - Location N2	20 Minute	17	
	Result - Location N3	20 Minute	18	
	Result - Location N4	20 Minute	12	
	Result - Location N5	20 Minute	8	

Monitoring of air quality took place on 26.06.2023 at five Project locations. Allowed Norms are based on World Health Organisation (PM2.5, PM10) and Georgian legislation (PM10).

4.2 Summary of Monitoring Outcomes

59. The current quarterly frequency of air quality monitoring by the Contractor does not meet Georgian and ADB requirements and needs to be undertaken on a monthly basis as requested by the Engineer to properly assess the environmental impact of construction activities.
60. Noise and Water quality testing results meet the norms established by the legislation of Georgia and IFC standards.
61. Overall, it is required to increase the frequency of the testing of all the above-mentioned parameters.

4.3 Material Resources Mobilisation

62. Between January and June 2023, the following materials were mobilized on site by the Contractor:

Table 12. Material Mobilization

N	MATERIALS	UNIT	QUANTITY
1	Gravel from Quarry Site	m ³	0
2	Reinforcement (steel)	T	1625

N	MATERIALS	UNIT	QUANTITY
3	Cement	T	9008
4	Additives	T	332
5	Explosives	T	0

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

4.4 Waste Management

64. The Contractor has prepared a detailed plan for Waste Management which includes an agreement with Sanitary Ltd concerning hazardous residual water and sewage water and an agreement with Sandasuftaveba Ltd for household waste disposal (see Table 13).

Table 13. Waste Management

No.	Domestic/Hazardous Waste & Sewage	Estimated Volume	Storage Area	Licensed Company
1	Wastewater, including sewage	45 m3	Camp septic tanks	"Sandasuftaveba" LTD
2	Domestic waste	122 m3	Camp and Plant Yard wastebaskets	"Sandasuftaveba" LTD
3	Used tires	65 pcs	Workshop designated area	"Sanitary" LTD
4	Used batteries	97 pcs	Workshop designated area	"Sanitary" LTD
5	Hydraulic and used oil	372 liters	Oil Change designated area	"Sanitary" LTD
6	Paint and other chemicals	2,8 m3	Workshop designated area	"Sanitary" LTD
7	Chemical additive tanks	27 pcs	Plant yard designated area	"Sanitary" LTD
8	Oil drums	23 pcs	Plant yard designated area	"Sanitary" LTD

9	Used food oil	33 liters	Camp separate wastebaskets	"Sanitary" LTD
10	Bulbs, cartridges	5 pc	Camp separate wastebaskets	"Sanitary" LTD
11	Medical waste	1.1 m3	Camp separate wastebaskets	"Sanitary" LTD

65. 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 an approved dumpsite.
66. The dumpsite area which is located at Airport and Kakhaberi settlement is agreed with the Ministry of Finance and Economy of Adjara and a copy of the agreement was submitted to the Engineer (**Annex 7 Dumpsite Agreement**).
67. Despite numerous requests by the Engineer, the Contractor has failed to provide information regarding tracking and disposal of hazardous waste.

4.5 Health and Safety

68. The Contractor has appointed an accident prevention officer Mr. Ayaz Abdurahmanov at the Site on a full-time basis, who is responsible for maintaining safety and protection against accidents. He is available on site every day.
69. The Contractor appointed Mr. Davit Metreveli as a HSE specialist.

4.5.1 Community and Worker Health and Safety

70. Descriptions of the incidents and accidents that occurred during the reporting period are described in **Table 14**.

Table 14. Incidents and Accidents Log

N	DATE	DESCRIPTION	MEASURES TAKEN	FOLLOW UP
1	08.01.2023	<p>The dump truck owned by the project contractor with state plate number ZC-620-ZC rolled over to its right side during unloading of inert material (sand-gravel).</p> <p>After the incident, truck driver was transferred to a nearby medical facility in Medalfa. According to the medical institution, the truck driver had a broken left leg. The employee affected by the incident remained in the medical facility until appropriate medical treatment was completed.</p>	<p>In connection with the investigation of the incident that occurred on 08.01.2023, a commission was convened consisting of a labour safety manager and a labour safety specialist.</p> <p>As a result of inspecting the scene of the incident, interviewing eyewitnesses, and the victim, as well as interviewing the technical staff, it was determined that the vehicle was technically sound and was visually inspected before the</p>	

N	DATE	DESCRIPTION	MEASURES TAKEN	FOLLOW UP
			<p>start of work. The driver was not under the influence of alcohol. (or any other type of substance affecting human concentration).</p> <p>During the work, the dump truck was standing correctly and the process of lifting the load was carried out in compliance with safety norms. When the cargo was being unloaded, the driver heard the characteristic sound of breaking, which was immediately followed by the overturning of the truck. Upon inspection of the overturned vehicle, it was found that the fastening bolts of the cargo compartment of the left part of the body were broken. Since the pre-planned work visual examination did not reveal any flaws, it is likely that one or more bolts had microcracks inside, which is why they could not withstand the load and broke.</p>	
2	17.06.2023	The project contractor owned road water tanker with state plate number XV922VX was crossing the Batumi-Khelvachauri connecting road, during which a traffic accident occurred in which a vehicle moving on the main road gave way to the water tanker, on the basis of which the water tanker driver started to cross the road when he was hit by a car moving on the left lane whose driver did not pay attention to the car standing in front of him, which was giving way to special vehicle. Ambulance crew and patrol police were called to the incident location and the driver of the light car was taken to Medina hospital by ambulance crew.	The police are investigating the causes of the incident.	

71. Trends related to the incidents and accidents are outlined in **Table 15**.

Table 15. Health and Safety Trends

Incident	Reporting Period (January – June 2023)	Total (since start of Project)
Near Miss	0	7

Accident Minor	0	17
Accident Major	0	4
Incident Minor	1	10
Incident Major	1	6

4.6 Contractor's Training

72. According to requirements of SSEMP AIDS and Hepatitis trainings, which needs to be conducted on a quarterly basis, was carried out on 31 March 2023 and 30 June 2023.
73. HSE trainings were carried out on 17 February, 20 March, 28 March 2 June and 3 June 2023. see **Annex 6 [Trainings]** see photos 55,56,57,58.

4.7 Community Consultation

74. According to requirements of SSEMP and Community Liaison Plan (CLP), public liaison meetings were conducted at Makhinjauri on 18 January 2023 and 27 June 2023. See photos 53,54.
75. The general discussion topic at each meeting was mainly about the information and instruction of different stages of construction activities, noise, vibration, and grievances.

4.8 Grievance Redress Mechanism and Complaints

76. A total of 215 persons have submitted grievances across 11 categories to the GRC since the start of the Project. Out of these, 163 grievances have been resolved as of 30 June 2023. Most people (85) applied for damage to their assets caused by construction activities, out of which 53 have been closed. 42 APs requested inclusion of their residential structures or land plots in the acquisition list, out of which 38 cases are closed. 28 APs expressed dissatisfaction due to disturbance by noise/vibration and dust, out of which 15 cases are closed. Ongoing cases are shown in Table 16.
77. Cases from Tunnel blasting zones will be finalized upon completion of tunnel construction activities at the end of the Project.
78. For other details please see **Table 16** below.

Table 16. Summary of Grievances by Category

Number of Complaints by Category:	Closed	Tech. hold	Open	Total
Damage to Infrastructure / Assets	53	27	5	85
Crop Compensation	7	0	0	7
Other	16	1	0	17
Inclusion in LARP	38	4	0	42
Disturbance: Noise / Vibration / Dust	15	13	0	28
Restriction or loss of access	11	1	0	12

Recruitment / Employment	1	0	0	1
Loss of business	1	0	0	1
Compensation Rate	12	1	0	13
Registration / Ownership Status	7	0	0	7
HSE Concerns	0	0	0	0
Road Upgrading	2	0	0	2
Total	163	47	5	215

5 FUNCTIONING OF THE SSEMP

5.1 SSEMP Review

79. The original SSEMP was prepared by the Contractor and submitted to the Engineer on 30 May 2018 by letter GEO/BB/103-18 and was prepared in a good manner although with some inconsistencies. In March 2019 the Contractor submitted an updated SSEMP to the Engineer which considered ADB, RD and Engineer's comments. It included all aspects of project construction and construction sites, namely:
- 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
 - Grievance Redress Mechanism.
80. As per Engineer's request (Letter Ref. 5015001/2/1138 dated 15 November 2019), the Contractor updated the SSEMP on 18.04.2021 and additionally prepared EMPs for the Stone Column area, N2 Concrete Batching Plant and for each tunnel and bridge.

6 GOOD PRACTICE

6.1 Good Practice

81. Good practices were not observed during the reporting period.

7 SUMMARY AND RECOMMENDATIONS

7.1 Summary

- 82. During the reporting period, the Contractor has not implemented enough mitigative measures and lacked preventive measures such as trainings and frequent monitoring of active construction sites.
- 83. The Contractor failed to undertake the agreed air quality monitoring. Air quality (PM 2.5 – PM 10) was measured only once instead of taking monthly measurements as stipulated by the Engineer to meet Georgian and ADB requirements. The Contractor also failed to submit any vibration monitoring results for the reporting period.

7.2 Recommendations

- 84. The Contractor to conduct monthly measurements of water quality, noise, vibration, and air quality in accordance with the Project requirements – Q3-Q4 2023.
- 85. The Contractor shall take proactive measures and increase number of trainings for the personnel to raise awareness regarding the Environmental protection – Q3 2023.
- 86. The Contractor to develop effective plan for overall waste management to avoid pollution of work sites – Q3 2023.
- 87. The Contractor to re-submit a final tree-planting program incorporating the revised number and types of trees agreed with the Engineer in December 2022 and in accordance with the Contract and EIA – Q3 2023.
- 88. The Contractor develop and submit noise barrier design and costing for the Project locations jointly inspected with the Engineer in December 2022 – Q3 2023.

8 ANNEXES

Annex 1. Project Photos

Photo 1- Office camp



Photo 2 – Office camp



Photo 3 – Laboratory



Photo 4 – Waste at Tunnel No.2

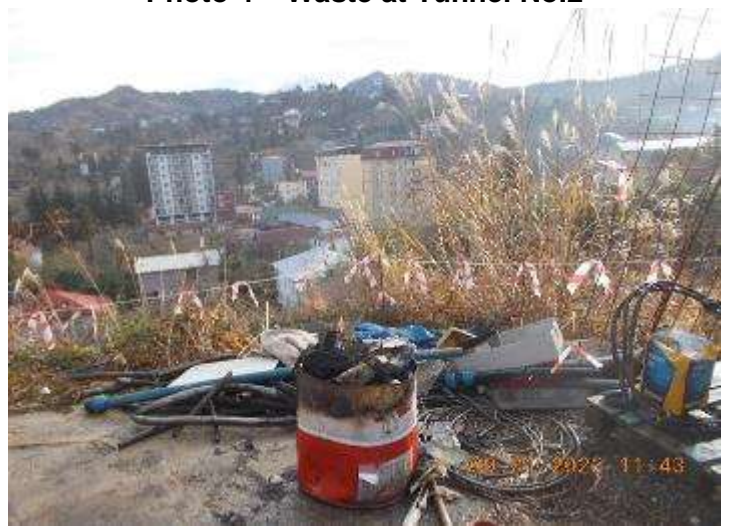


Photo 5 – Waste near Bridge No.1



Photo 6– Waste near Bridge No.1



Photo 7 - Waste



Photo 8 - Waste



Photo 9 - Waste



Photo 10 - Waste



Photo 11 - Waste at precast yard



Photo 11- Waste construction camp



Photo 12- Waste



Photo 13 - Waste



Photo 14 - Waste



Photo 15 - Waste



Photo 16 - Reinforcement



Photo 17 - Reinforcement



Photo 18- Reinforcement



Photo 19 - Waste



Photo 20 - Waste



Photo 21 - Cement



Photo 22 - Cement



Photo 23 - Scrap metal



Photo 24 – Public liaison meeting 18.01.23



Photo 25 – Public liaison meeting 27.06.23



Photo 26 – Training 17.02.2023



Photo 27 – Training 20.03.2023



Photo 27 – Training 28.03.2023



Photo 57 – Training 3.06.2023



Annex 2. Air Quality and Noise Monitoring Results

2.1 Atmospheric Air Test

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

Annex N2: Air measurement results

N1 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
1	26 Jun 2023 15:02	27	11
2	26 Jun 2023 15:03	14	7
3	26 Jun 2023 15:04	30	9
4	26 Jun 2023 15:05	12	7
5	26 Jun 2023 15:06	22	7
6	26 Jun 2023 15:07	24	8
7	26 Jun 2023 15:08	14	6
8	26 Jun 2023 15:09	17	6
9	26 Jun 2023 15:10	18	6
10	26 Jun 2023 15:11	15	7
11	26 Jun 2023 15:12	20	8
12	26 Jun 2023 15:13	23	8
13	26 Jun 2023 15:14	25	5
14	26 Jun 2023 15:15	23	5
15	26 Jun 2023 15:16	19	11
16	26 Jun 2023 15:17	22	6
17	26 Jun 2023 15:18	25	6
18	26 Jun 2023 15:19	26	11
19	26 Jun 2023 15:20	20	7
20	26 Jun 2023 15:21	26	11
20 min. Average		21	8

N2 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
21	26 Jun 2023 15:32	42	8
22	26 Jun 2023 15:33	20	7
23	26 Jun 2023 15:34	19	8
24	26 Jun 2023 15:35	8	7
25	26 Jun 2023 15:36	14	6
26	26 Jun 2023 15:37	12	7
27	26 Jun 2023 15:38	12	7
28	26 Jun 2023 15:39	12	6
29	26 Jun 2023 15:40	15	10
30	26 Jun 2023 15:41	8	8
31	26 Jun 2023 15:42	20	6
32	26 Jun 2023 15:43	20	10
33	26 Jun 2023 15:44	15	5
34	26 Jun 2023 15:45	20	3
35	26 Jun 2023 15:46	20	6
36	26 Jun 2023 15:47	16	6
37	26 Jun 2023 15:48	15	8

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Conducted Survey Report

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

N2 Point			
Index	Date Time	PM10 (µg/m3)	PM2,5 (µg/m3)
38	26 Jun 2023 15:49	17	4
39	26 Jun 2023 15:50	20	5
40	26 Jun 2023 15:51	16	7
20 min. Average		17	7

N3 Point			
Index	Date Time	PM10 (µg/m3)	PM2,5 (µg/m3)
41	26 Jun 2023 16:04	80	12
42	26 Jun 2023 16:05	7	5
43	26 Jun 2023 16:06	4	4
44	26 Jun 2023 16:07	6	4
45	26 Jun 2023 16:08	7	5
46	26 Jun 2023 16:09	13	5
47	26 Jun 2023 16:10	19	5
48	26 Jun 2023 16:11	9	6
49	26 Jun 2023 16:12	10	6
50	26 Jun 2023 16:13	10	6
51	26 Jun 2023 16:14	20	3
52	26 Jun 2023 16:15	20	8
53	26 Jun 2023 16:16	21	4
54	26 Jun 2023 16:17	20	8
55	26 Jun 2023 16:18	17	4
56	26 Jun 2023 16:19	18	4
57	26 Jun 2023 16:20	15	7
58	26 Jun 2023 16:21	14	8
59	26 Jun 2023 16:22	21	7
60	26 Jun 2023 16:23	22	8
20 min. Average		18	6

N4 Point			
Index	Date Time	PM10 (µg/m3)	PM2,5 (µg/m3)
61	26 Jun 2023 16:34	13	6
62	26 Jun 2023 16:35	11	5
63	26 Jun 2023 16:36	8	5
64	26 Jun 2023 16:37	15	6
65	26 Jun 2023 16:38	7	5
66	26 Jun 2023 16:39	11	5
67	26 Jun 2023 16:40	10	4
68	26 Jun 2023 16:41	11	5
69	26 Jun 2023 16:42	12	5
70	26 Jun 2023 16:43	16	6
71	26 Jun 2023 16:44	19	5

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Conducted Survey Report

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

N4 Point			
Index	Date Time	PM10 (µg/m3)	PM2,5 (µg/m3)
72	26 Jun 2023 16:45	12	7
73	26 Jun 2023 16:46	13	4
74	26 Jun 2023 16:47	14	6
75	26 Jun 2023 16:48	14	5
76	26 Jun 2023 16:49	10	4
77	26 Jun 2023 16:50	10	4
78	26 Jun 2023 16:51	9	6
79	26 Jun 2023 16:52	12	5
80	26 Jun 2023 16:53	14	7
20 min. Average		12	5

N5 Point			
Index	Date Time	PM10 (µg/m3)	PM2,5 (µg/m3)
81	26 Jun 2023 17:11	7	5
82	26 Jun 2023 17:12	11	5
83	26 Jun 2023 17:13	7	4
84	26 Jun 2023 17:14	9	4
85	26 Jun 2023 17:15	7	5
86	26 Jun 2023 17:16	6	4
87	26 Jun 2023 17:17	9	5
88	26 Jun 2023 17:18	5	4
89	26 Jun 2023 17:19	12	5
90	26 Jun 2023 17:20	6	4
91	26 Jun 2023 17:21	6	4
92	26 Jun 2023 17:22	11	7
93	26 Jun 2023 17:23	10	7
94	26 Jun 2023 17:24	8	4
95	26 Jun 2023 17:25	10	7
96	26 Jun 2023 17:26	11	4
97	26 Jun 2023 17:27	9	6
98	26 Jun 2023 17:28	9	4
99	26 Jun 2023 17:29	5	4
100	26 Jun 2023 17:30	7	5
20 min. Average		8	5




2.2 Noise test



<p>სამეცნიერო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ „აღმოსავლური კვლევითი ცენტრი“ 6010 ქ. ბათუმი, სვიშევსკის ქ. №80 ტელ: + 995 (04 22) 25 13 68 e-mail: samebalab@gmail.com</p>		<p>GEORGIA AUTONOMOUS REPUBLIC OF ADJARA MINISTRY OF AGRICULTURE, LEPL "LABORATORY RESEARCH CENTRE", 80, SWISHEVSKY ST. BATUMI 6010. TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p>																																	
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<p>The Protocol of the Test: №1112</p>																																			
<p>Date: 30.03.2023</p>																																			
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yoi Yapi Sanayi Ve Ticaret“ in Georgia.</p>																																			
<p>Determination of the research (measurement) object: noise level</p>																																			
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<p>The Protocol of the Test №2519</p>																											
<p>Date:04.07.2023</p>																											
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Annex 3. Water Quality Results




<p style="text-align: center;">სამხრეთული აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტროს, სსიპ „ლაბორატორიული კვლევითი ცენტრი“ 6010, ქ. შავიუბა, სვიშჩევსკის ქ. №80 ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samchulab@gmail.com</p>		<p style="text-align: center;">GEORGIA AUTONOMOUS REPUBLIC OF ADJARA MINISTRY OF AGRICULTURE, LEPL "LABORATORY RESEARCH CENTRE". 80, SWISHEVSKY ST. BATUMI, 6010, TEL: + 995 (04 22) 25 13 68 E-MAIL:samchulab@gmail.com</p>																											
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<p>The Protocol of the Test №1105</p>																													
<p>Name of the customer and contact information: Branch of foreign enterprise „JSC Folat Yol Yapı Sanayi Ve Ticaret“ in Georgia.</p>		<p>Date: 03.04.2023</p>																											
<p>Description of the samples, condition : River water 3l. in Plastic Bottle</p>																													
<p>Place of taking the examination sample (s), date: Batumi Makinjauri 0-550კმ, 29.03.2023 10:15-10:20</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): 29.03.2023 15:45</p>																													
<p>Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010, Swishevski st. No. 80 29.03.2023-03.04.2023</p>																													
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<p>Place of taking the examination sample (s), date: Batumi, Makhinjauri Makhinjauri river 1+950კმ, 29.03.2023 10:35-10:40</p>																												
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<p>The Protocol of the Test №1111</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: 03.04.2023</p>																											
<p>Description of the samples, condition : River water 3L in Plastic Bottle</p>																													
<p>Place of taking the examination sample (s), date: Batumi Makhvilauri settlement , Makhvilauri the river 11+500 km 29.03.2023 12-15-12:20</p>																													
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<p>The Protocol of the Test №2517 Data: 06.07.2023</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 3L in Plastic Bottle</p>																												
<p>Place of taking the examination sample (s), date: Batumi Makinjauri 0+550კმ. 03.07.2023 16:27 -16:32</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>																												
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<p style="text-align: right;">Q. TserTsvadze</p>																												
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<p>The Protocol of the Test №2518 Date: 06.07.2023</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 : River water 3L in Plastic Bottle</p>																													
<p>Place of taking the examination sample (s), date: Batumi, Makhinjauri river 1-950კმ. 03.07.2023 16:55 -17:00</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>																													
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<p>Responsible Persona :</p>			<p>T Budzadze Q. Tsetrisvadze L. Verulidze</p>																										
<p>I Head of structural department :</p>			<p>K. Iupatadze</p>																										
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სსიპ „ლაბორატორიული კვლევითი
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The Protocol of the Test №2516

Date: 06.07.2023

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 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi, Benze „Chaisubani River 4+700კმ.
03.07.2023 15:52-15:57

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): 03.07.2023 17:25

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010, Swishevski st No. 80 03.07.2026-05.07.2023

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №2516 Protocol of the Test №242	Chlorides	31,9 mg/l	ISO 9297-1989
	Sulfates	17,0 mg/l	S.D 52.24.468-2019
	Polyphosphate	< 0,01 mg/l	COST 18309-2014
	Nitrates	0,19 mg/l	COST 33045-2014
	Alkalinity	0,7 მგლ/დმ ³	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 Persona :

თ. ბაუჯაძე
ფ. ტყეშელაშვილი
T. Baudjadze
Q. Tsertvadze
L. Verulidze

I Head of structural department :

კ. კუპატაძე
K. Kupatadze

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<p>Date: 06.07.2023</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 3L in Plastic Bottle</p>																													
<p>Place of taking the examination sample (s), date: Batumi, Gorodoki settlement km 7+500 03.07.2023 15:25-15:30</p>																													
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<p>Results are given only for the sample (s) submitted.</p>																													
<p>Responsible Persona :</p>		<p>02.07 T. Baujadze Q. tsertsvadze L. Verulidze</p>																											
<p>1 Head of structural department :</p>		<p>K. Kupatadze</p>																											
																													
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<p>1/1</p>																													

<p>საერთოვლო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ „ლაბორატორიული კვლევითი ცენტრი“ 6010, ქ. ბათუმი, სვიშევსკის ქ. №80 ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p>		<p>GEORGIA AUTONOMOUS REPUBLIC OF ADJARA MINISTRY OF AGRICULTURE. LEPL "LABORATORY RESEARCH CENTRE", 80, SWISHEVSKY ST. BATUMI, 6010. TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p>																											
<p>The testing laboratory of the SSI Laboratory Research Center is accredited by the SAK On compliance with ISO/IEC 17025:2017/2018 standard, accreditation certificate No. GAC-TL-0308.</p>																													
<p>The Protocol of the Test №2514 Data: 06.07.2023</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 3L in Plastic Bottle</p>																													
<p>Place of taking the examination sample (s), date: Batumi Makhvilauri settlement , Makhvilauri the river 11-500 km 03.07.2023 15:00-15:05</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): 03.07.2023 17:25</p>																													
<p>Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski st No. 80 03.07.2023 -05.07.2023</p>																													
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<p style="text-align: center;">1/1</p>																													

Annex 4. Vibration Test Results

The Contractor did not provide any measurements of blasting works.

Annex 5. ENCRs

Polatyol

Environmental Non-Conformance Report (ENCR)



Part 1 – Non-Conformance Description:

Reference Number:	ENCR_137		
Project Name:	Batumi Bypass Road Project	Date raised:	26.01.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Bridge No. 1 A2		

Non-Conformance details:

Household waste (plastic food containers).
Waste burning.
No waste container arranged.
Training required.

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

Part 2 – Corrective Actions (attach any supporting information)

Necessary training was conducted and the employees were warned to follow requirements of the environmental safety.
The area was cleaned.
Waste container was arranged.

Agreed Close-out Date
Date: 04.02.2023

Contractor's Representative: Davit Metreveli	Signature:
--	------------

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

Done (Photos)

Engineer's Representative:	Signature:
Closure Date:	<i>19.04.2023</i>

ENCR 137



Photo No. 1



Photo No. 2

Polatyo! & mapa Joint Venture

Photo-1



Photo-2



Polatyol & mapa Joint Venture

Photo-3



Photo-4



Polatyo! & mapa Joint Venture


Photo-5



Polatyo! & mapa Joint Venture

Photo-6



Polatyol	Environmental Non-Conformance Report (ENCR)	 Member of the Surbana Jurong Group
-----------------	--	---

Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_138		
Project Name:	Batumi Bypass Road Project	Date raised:	26.01.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 1 Entrance Portal		
Non-Conformance details:			
Waste burning. Overfilled waste container. Environmental training required.			
Engineer's Representative: Giorgi Shiukashvili		Signature: 	
Part 2 – Corrective Actions (attach any supporting information)			
Waste containers were cleaned. Necessary toolbox has been carried out and the employees were warned to follow environmental safety requirements.			
			Agreed Close-out Date Date: 04.02.2023
Contractor's Representative: Davit metreveli		Signature: 	
Part 3 – Inspection (evidence to support corrective action implementation)			
Engineer's Representative:		Signature:	
Closure Date:			

ENCR 138



Photo No. 1



Photo No. 2



Photo No. 3



Photo No. 4


Polatyol & mapa Joint Venture

Photo No.1



Photo No.2



Polatyol	Environmental Non-Conformance Report (ENCR)	 Member of the Sarsana Jorong Group
-----------------	--	---

Part 1 – Non-Conformance Description:

Reference Number:	ENCR_139		
Project Name:	Batumi Bypass Road Project	Date raised:	26.01.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 2 Entrance Portal		

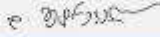
Non-Conformance details:
 Waste is burned in the waste containers.
 Environmental training is required.

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

Part 2 – Corrective Actions (attach any supporting information)

Necessary training was conducted and the employees were warned to follow requirements of the environmental safety.
 Waste containers were cleaned.

Agreed Close-out Date
Date: 05.02.2023

Contractor's Representative: Davit Metreveli	Signature: 
--	--

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

	Signature:
Engineer's Representative:	
Closure Date:	



Photo No. 1

Polatyol & mapa Joint Venture

Photo No.1



Photo No.2




Polatyol & mapa Joint Venture

Photo No.3



Photo No.4



Polatyo!	Environmental Non-Conformance Report (ENCR)	 SMEC <small>Member of the Surbana Jurong Group</small>
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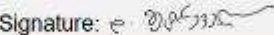

Part 1 – Non-Conformance Description:					
Reference Number:	ENCR_140				
Project Name:	Batumi Bypass Road Project	Date raised:	26.01.2023		
Contractor Name:	POLATYOL & MAPA JOINT VENTURE				
Location:	Tunnel No. 2 Entrance Portal				
Non-Conformance details:					
Oil spill.					
Engineer's Representative: Giorgi Shiukashvili		Signature: 			
Part 2 – Corrective Actions (attach any supporting information)					
The oil-contaminated area was cleaned using an appropriate method.					
			<table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 31.01.2023</td> </tr> </table>	Agreed Close-out Date	Date: 31.01.2023
Agreed Close-out Date					
Date: 31.01.2023					
Contractor's Representative: Davit Metreveli		Signature: 			
Part 3 – Inspection (evidence to support corrective action implementation)					
Done.					
Engineer's Representative:		Signature: 			
Closure Date:	31.01.2023				



Photo No. 1

Polatyol & MIPA Joint Venture

Photo No.1




1

Polatyoi & mapa Joint Venture

Photo No.2



Polatyo!	Environmental Non-Conformance Report (ENCR)	 Member of the Surbana Jurong Group
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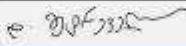

Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_141		
Project Name:	Batumi Bypass Road Project	Date raised:	17.03.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Batching Plant No. 2		
Non-Conformance details:			
Bad Housekeeping/Plastic waste spread.			
Engineer's Representative: Giorgi Shiukashvili		Signature: 	
Part 2 – Corrective Actions (attach any supporting information)			
Territory of the batching plant No.2 was cleaned.			
			Agreed Close-out Date
			Date: 27.03.2023
Contractor's Representative: Davit metreveli		Signature: 	
Part 3 – Inspection (evidence to support corrective action implementation)			
Done.			
Engineer's Representative:		Signature: 	
Closure Date:	27.03.2023		



Photo No. 1



Photo No. 2

Polatyo!

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



Photo No. 3

Polatyo!

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



Photo No. 4

Polatyol & mapa Joint Venture

Photo No.1



Photo No.2



Polatyol & mapa Joint Venture

Photo No.3




Photo No.4



Polatyo! & mapa Joint Venture

Photo No.5



Polatyo!	Environmental Non-Conformance Report (ENCR)	 Member of the Surbana Jurong Group
-----------------	--	---


Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_142		
Project Name:	Batumi Bypass Road Project	Date raised:	17.03.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Precast yard		
Non-Conformance details:			
Bad housekeeping, construction/household waste.			
Engineer's Representative: Giorgi Shiukashvili		Signature: 	
Part 2 – Corrective Actions (attach any supporting information)			
			Agreed Close-out Date Date: 29.03.2023
Contractor's Representative:		Signature:	
Part 3 – Inspection (evidence to support corrective action implementation)			
			Agreed Close-out Date Date: 29.03.2023
Engineer's Representative:		Signature:	
Closure Date:			



Photo No. 1



Photo No. 2



Photo No. 3




Photo No. 4



Photo No. 5



Photo No. 6

Polatyo!	Environmental Non-Conformance Report (ENCR)	 Member of the Surlana Jorong Group
-----------------	--	---

Part 1 – Non-Conformance Description:

Reference Number:	ENCR_143		
Project Name:	Batumi Bypass Road Project	Date raised:	17.03.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 1 Entrance		

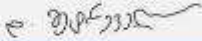
Non-Conformance details:
 No sedimentation basin arranged before excavation and watercourse is contaminated by mud.

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

Part 2 – Corrective Actions (attach any supporting information)

A sedimentation basin have been made and watercours will not be polluted

Agreed Close-out Date
Date: 20.03.2023

Contractor's Representative: Davit Metreveli	Signature: 
--	--

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

Engineer's Representative:	Signature:
Closure Date:	

ENCR 143



Photo No. 1



Photo No. 2

Polatyo! & mapa Joint Venture

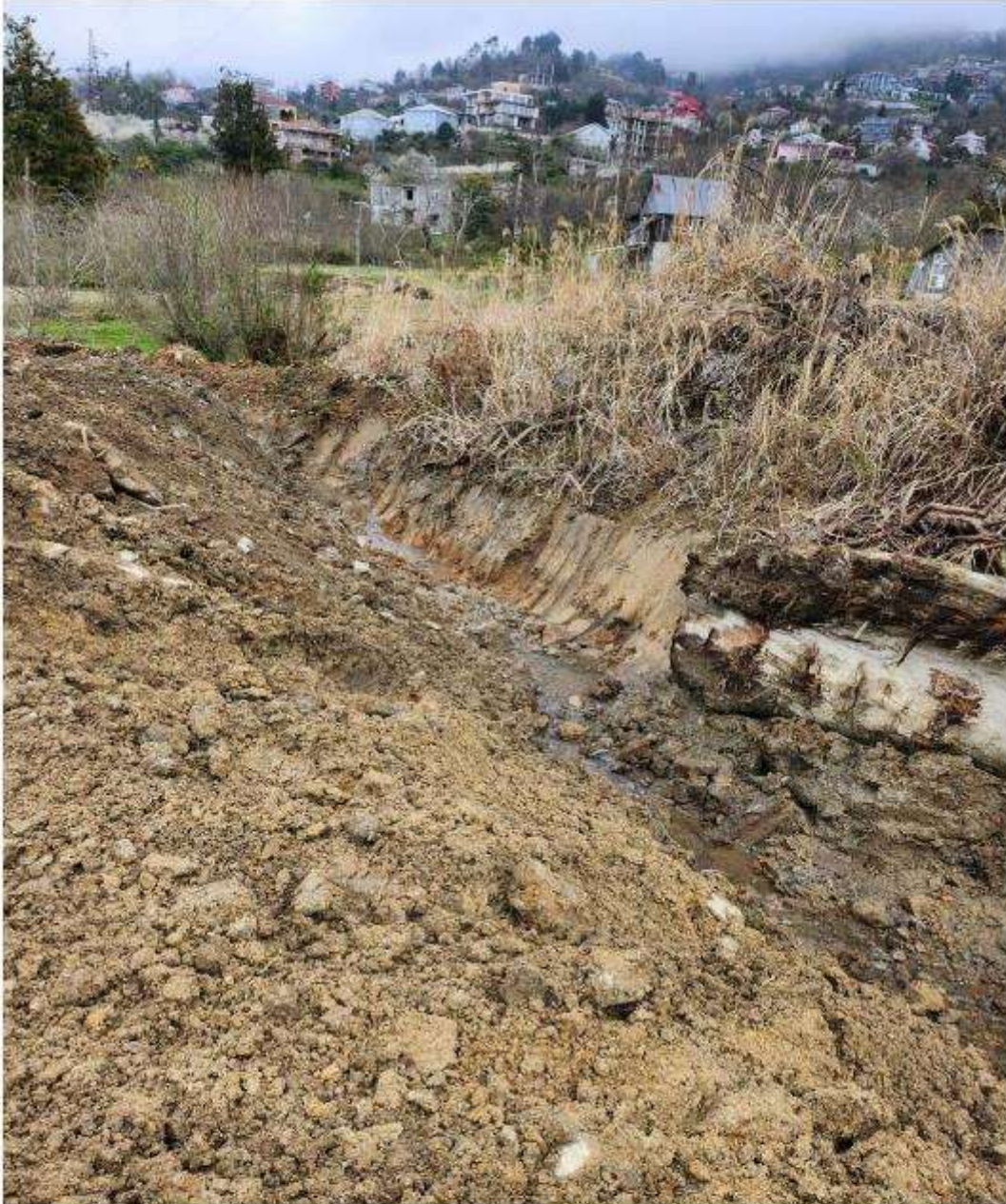


Polatyol &  mapa Joint Venture









Polatyol

Environmental Non-Conformance Report (ENCR)



Part 1 – Non-Conformance Description:

Reference Number:	ENCR_144		
Project Name:	Batumi Bypass Road Project	Date raised:	18.03.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 2 Entrance		

Non-Conformance details:

Bad housekeeping, waste burning.
Environmental training required.

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

Part 2 – Corrective Actions (attach any supporting information)

Necessary training was conducted and the employees were warned to follow requirements of the environmental safety.
Waste containers and yard were cleaned.

Agreed Close-out Date
Date: 30.03.2023

Contractor's Representative: Davit Metreveli	Signature:
--	------------

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

Done (Photos)

Engineer's Representative:	Signature:
Closure Date:	<i>10.04.2023</i>

ENCR 144



Photo No. 1



Photo No. 2



Photo No. 3



Photo No. 4



Photo No. 5

Polatyo! & mapa Joint Venture

Photo No.1



Photo No.2



Polatyol & mapa Joint Venture

Photo No.3



Photo No.4



Photo No.5



Polatyol & mapa Joint Venture

Photo No.6



Photo No.7



Polatyol

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



Part 1 – Non-Conformance Description:

Reference Number:	ENCR_145		
Project Name:	Batumi Bypass Road Project	Date raised:	20.03.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Bridge No. 11		

Non-Conformance details:

On the Bridge deck and between piers are dumped incinerated waste.
Incinerated waste should be collected and removed to the dumpsite.
Waste incineration is prohibited.
Environmental training is required.

Engineer's Representative: Giorgi Shiukashvili

Signature:

Part 2 – Corrective Actions (attach any supporting information)

Necessary training was conducted and the employees were warned to follow requirements of the environmental safety.
The area was cleaned.

Agreed Close-out
Date

Date: 30.03.2023

Contractor's Representative: Davit metreveli

Signature:

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

Dave (Photos)

Engineer's Representative:

Signature:

Closure Date:

10.04.2023

ENCR 145



Photo No. 1



Photo No. 2



Photo No. 3

Photo No.1



Photo No.2




Polatyo! & Joint Venture

Photo No.3



Photo No.4



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

Reference Number:	ENCR_146		
Project Name:	Batumi Bypass Road Project	Date raised:	19.04.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 2 Exit Portal		

Non-Conformance details:

Waste incineration.
Environmental training is required.

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

Part 2 – Corrective Actions (attach any supporting information)


Necessary toolbox has been carried out and the employees were warned to follow environmental safety requirements.
Waste containers were cleaned.

Agreed Close-out Date
Date: 28.04.2023

Contractor's Representative: Davit Metreveli	Signature: 
--	--

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

Done.

Engineer's Representative:	Signature: 
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Closure Date:	02.05.2023
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ENCR 146



Photo No. 1



Photo No. 2

Polatyoi & mapa Joint Venture

Polatyoi & mapa Joint Venture

საინჟინრო-მშენებლო-სამშენ ადგილზე მუშაობის უსაფრთხოების წესები
 on-site safety rules for construction work

მდებარეობა/Location: **№2 ვანისძე** თარიღი/Date: **02-05-2023**

Type of instruction/ ინსტრუქციის ტიპი	Induction/ ინდუქცია	<input checked="" type="checkbox"/>	Toolbox/ ტოლბოქსი	<input checked="" type="checkbox"/>	Instruction/ ინსტრუქცია	<input checked="" type="checkbox"/>
Language of instruction/ ინსტრუქციის ენა	Georgian/ ქართული	<input checked="" type="checkbox"/>	English/ ინგლისური	<input checked="" type="checkbox"/>	Turkish/ თურქული	<input checked="" type="checkbox"/>

Topic(s) of instruction / Course Title
 შეხვედრის საგანი და დასახელება

№2 ვანისძეზე რაბოთაში მუშაობის (შრომის) დროს უსაფრთხოების ზედპროცედურის შესახებ ინფორმაციის მიწოდების მიზნით. მუშაობის დროს უსაფრთხოების წესების დაცვას უზრუნველყობს. მუშაობის დროს უსაფრთხოების წესების დაცვას უზრუნველყობს. მუშაობის დროს უსაფრთხოების წესების დაცვას უზრუნველყობს. მუშაობის დროს უსაფრთხოების წესების დაცვას უზრუნველყობს.




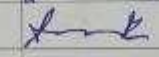



- დასაქმებულთა საყურადღებო!!!
- მუშაობის პროცესში ყოველთვის დავიცავ შრომის უსაფრთხოების წესებს. ვცდილობ ვასრულებ ჩემი სამუშაოები შედარებით რატარგებული ინსტრუქციების და უსაფრთხოების პროცედურების სრული დაცვით, რაზედაც ვაწერ ხელს.
- ყოველთვის იმუშავე უსაფრთხოდ!!!
- სამუშაო ადგილას ინსტრუქტაჟი, არის სამუშაო პროცესთან დაკავშირებული ფაქტების მოკლე შეხვედრის გამოყენებული უნდა იყოს შეხვედრის სახით, პროცესში ჩართული თანამშრომლებისთვის ეს უნდა იქნას უსაფრთხოების წესების დაცვას უზრუნველყობს მიზნით.

List of Attendees/დამსწრეთა სია			
N	სახელი/Name ვარი/Surname	თანამდებობა/Position	კომპანია/Company
1	Caner Demirel	Elektrik	Getiner
2	შაქარაძე	ინჟინერი	საინჟინრო-მშენებლო

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საბჭოს წევრების სია, რომელსაც წევრების
ინსტრუქციის საბუთი ადგილობრივ მშენებელ უმაღლესობებში სკოლებში

3	Dursun	Alparstan OPI	Getiner	
4	SERDAR Golin	V. Mikh. GETINER	Getiner	
5	ბარს ბაბუაძე	ადონიანი	ბონიანი	
6	ჭაბუკიანი	ჭაბუკიანი	ბონიანი	
7	ბარს ბაბუაძე	ადონიანი	ბონიანი	
8	Order Bayazit	Pimusha	Getiner	
9	Metin Gaktag	Yasici	Getiner	
10	MHUSEYINUSTINKOVA	Jumbaoi o p	Getiner	
11	Durmuş Getin	Fomen	Getiner	
12	Nurallah Aktük	OPI	Getiner	
13	HASAN Zompir	CVS	Getiner	
14	Ali Yilmaz	ISCI	Getiner	
15	Ali Yilmaz	ISCI	Getiner	
16	ბარს ბაბუაძე	ადონიანი	ბონიანი	
17	Mehmet Güçlüoğlu	V. Mikh.	Getiner	
18				
19				
20				

ინსტრუქციის ჩაატარება:

სახელი/Name გვარი/Surname	თანამდებობა/Position	ხელმოწერა/Signature
ბარს ბაბუაძე	მ.ს. უმაღლესობა	

Polatyol & mapa Joint Venture



Part 1 – Non-Conformance Description:

Reference Number:	ENCR_147		
Project Name:	Batumi Bypass Road Project	Date raised:	25.05.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Batching Plant No. 2		

Non-Conformance details:

Overall housekeeping.
 Plastic waste.
 Waste burn.
 Training required.

Engineer's Representative: Giorgi Shiukashvili

Signature: 

Part 2 – Corrective Actions (attach any supporting information)

Necessary toolbox has been carried out and the employees were warned to follow environmental safety requirements.
 Waste containers and the area were cleaned.

Agreed Close-out Date
Date: 05.06.2023


Contractor's Representative: Davit Metreveli

Signature: 

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

Done.

Engineer's Representative:

Signature: 

Closure Date: 05.06.2023



Photo No. 1



Photo No. 2

Polatyo! & mapa Joint Venture

Photo No.1



Photo No.2



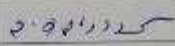
Polatyoi & mapa Joint Venture

Polatyoi & mapa Joint Venture

ბათუმის მუნიციპალიტეტის გზის პროექტის მიმდინარეობა
ინსტრუქციური საბუღალტრო ადგილებზე. შრომის უსაფრთხოების საკითხებში

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ინსტრუქციური ჩაატარა:

სახელი/გვარი	თანამდებობა	ხელმოწერა
გივი მამუკაძე	HS ინჟინერი	

Polatyo! & mapa Joint Venture



Part 1 – Non-Conformance Description:

Reference Number:	ENCR_148		
Project Name:	Batumi Bypass Road Project	Date raised:	25.05.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Bridge No. 7.1		

Non-Conformance details:

Plastic waste scattered all over the area.
 Territory should be cleaned, and waste should be disposed to the municipal waste bin.
 Construction site should be managed according to SSEMP.
 Training required.

Engineer's Representative: Giorgi Shiukashvili

Signature: 

Part 2 – Corrective Actions (attach any supporting information)

Necessary toolbox has been carried out and the employees were warned to follow environmental safety requirements.
 Construction site were cleaned.

Agreed Close-out Date
 Date: 06.06.2023


Contractor's Representative: Davit Metreveli

Signature: 

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

Done.

Engineer's Representative:

Signature: 

Closure Date: 06.06.2023



Photo No. 1



Photo No. 2



Photo No. 3





Photo No. 5



Photo No. 6



Photo No. 7

PhotoNo.1



Photo No.2



Polatyoi & mapa Joint Venture

Photo No.3

Polatyoi &  mapa Joint Venture

საგარეო უწყვეტი განათლების პროექტის მშენებლობა
 ინსტრუქტორების სამუშაო ადგილებზე მშობის უსაფრთხოების საკითხებში

ლოტის №: ბ.ე. № 1, 2 თარიღი: 22.05.2023

Type of instruction/ ინსტრუქციის სახეობა:	instruction/ინსტრუქცია	<input checked="" type="checkbox"/>	Toolbox/ რუკა	<input checked="" type="checkbox"/>	Instruction/ ინსტრუქცია	<input checked="" type="checkbox"/>
Language of instruction/ საუბრობის ენა:	Georgian/ ქართული	<input checked="" type="checkbox"/>	English/ ინგლისური	<input checked="" type="checkbox"/>	Turkish/ თურქული	<input checked="" type="checkbox"/>


Topic(s) of instruction / Course Title
 მსჯელობის საგანი და ტანამუშაო

- სამუშაოსთან დაკავშირებული უსაფრთხოების საკითხები
- PPE პროცედურა (ი.დ.ს გამოყენებითა მუშაობა)
- თხრილები, ექსკავაციების მოწყობის სამუშაოების უსაფრთხოების წესები
- ხარახის აღმართის უსაფრთხოების წესები
- კიბების უსაფრთხოდ გამოყენების პროცედურები
- სიმაღლეზე უსაფრთხოდ მუშაობის წესები
- გარემოს დაცვითი ღონისძიებების მნიშვნელობა

N	სახელი/გვარი	თანამდებობა	კომპანია	ხელმოწერა
1	Bekhan YAKHIAI	მ.ე.მ.ე.მ.	Magistral	
2	M.Muhsun DUNGAJ	მ.ე.მ.ე.მ.	Magistral	
3	Hamit TASHIN	მ.ე.მ.ე.მ.	Magistral	
4	Vedat TASHIN	მ.ე.მ.ე.მ.	Magistral	
5	Mehmet BAYRAM	მ.ე.მ.ე.მ.	Magistral	
6	Mehmet can Bayram	მ.ე.მ.ე.მ.	Magistral	
7	Mehmet celal DEDIC	მ.ე.მ.ე.მ.	Magistral	
8	Recep YIGIT	მ.ე.მ.ე.მ.	Magistral	
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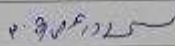
Polatyoi & mapa Joint Venture

Photo No.4

Polatyoi &  mapa Joint Venture

შპს-ის მფლობელი გზის პროექტის მშენებლობა
ინსტრუქციის სამუშაო ადგილზე შრომის უსაფრთხოების საკანონმდებლო


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პაპია ნატალია	MS 1/18.11.18	

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Photo No.5



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

Reference Number:	ENCR_149		
Project Name:	Batumi Bypass Road Project	Date raised:	19.06.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Precast Yard		

Non-Conformance details:

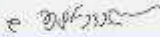
Oil spill from oil storage area and soil/water is contaminated.
 Oil storage barrier has hole and can't perform its function.
 Oil barrels stored outside storage area.

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


Oil storage area and adjacent territory were cleaned.
 Oil storage barrier has been fixed.
 Oil barrels are stored in appropriate storage warehouse.

Agreed Close-out Date
Date: 26.06.2023

Contractor's Representative: Davit Metreveli	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:	26.06.2023
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Photo No. 1



19 Jun 2023 at 15:20:40
Khelvachauri
Georgia

Photo No. 2



19 Jun 2023 at 15:20:46
Khelvachauri
Georgia


Photo No. 3

Polatyo! & mapa Joint Venture



Polatyol & mapa Joint Venture



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

Reference Number:	ENCR_150		
Project Name:	Batumi Bypass Road Project	Date raised:	19.06.2023
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Construction Campsite		

Non-Conformance details:

Oil barrels are stored on the ground outside storage area.
 Storage barrier can't perform its function.
 No absorbers arranged.

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


Oil barrels are stored in special storage area.
 Storage barrier have been fixed.
 Absorbers were arranged.

Agreed Close-out Date
Date: 26.06.2023

Contractor's Representative: Davit metreveli	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:	26.06.2023
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Photo No. 1



Photo No. 2



Polatyo! & Joint Venture



Polatyol & mapa Joint Venture



Annex 5.1 Correspondence Regarding Environmental issues

N	DATE	REF. NO.	SUBJECT
1	21 January 2023	5015001/2/2937	Regarding Contractor's Environmental quarterly report
2	8 February 2023	5015001/2/2958	Contamination of site with plastic waste
3	18 February 2023	5015001/2/2977	Environmental problems at the construction site
4	18 March 2023	5015001/2/3004	Testing of the Environmental parameters
5	20 April 2023	5015001/2/3055	Prevention of Air pollution
6	3 May 2023	5015001/2/3055	Prevention of Air pollution
7	24 May 2023	5015001/2/3098	Regarding Environmental problems
8	16 June 2023	5015001/2/3123	Testing of the Environmental parameters
9	19 June 2023	5015001/2/3128	Arrangement of the ventilation in Tunnel No.1
10	20 June 2023	5015001/2/3129	Regarding Contractor's Environmental quarterly report
11	21 June 2023	5015001/2/3136	Regarding Air pollution
12	22 June 2023	5015001/2/3143	Regarding ecological monitoring

Annex 6. Training

Attendees of AIDS and Hepatitis 31.03.2023.



Attendees of AIDS and Hepatitis: 30.06.2023.



No	Name, Surname	Company	Signature
1	Hazal S. D. S. D.	POLAT YOL	[Signature]
2	Emre Bulut	" "	[Signature]
3	S. B. B. B. B. B. B.	" "	[Signature]
4	Shygan R. B. B.	" "	[Signature]
5	G. B. B. B. B. B.	" "	[Signature]
6	A. M. B. B. B. B.	" "	[Signature]
7	[Signature]	" "	[Signature]
8	[Signature]	" "	[Signature]
9	[Signature]	" "	[Signature]
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Contractor Camp

30.06.2023

Annex 7. Agreement for Dump Site



4572-01-01-10-2-201811191453

N 01-01-10/4572
19/11/2018

უცხოური საწარმის სს „ფილიაი ილდა იაფი ხაჩაი ფე თიჯარეთ“-ის საქართველოს ფილიალის დირექტარს აივან ფოლადის იღრ, მის: ქ. თბილისი, ლგვისი N39 ფაქტ, მის: ქ. ზათუმო, თბირჩებს ქ. N97 ს/მ 404903707 ხაგ ვირ, ტელ: 595 61 56 56

ბატონო აივან,
თქვენი 2018 წლის 01 თებერვლის NTMO/18/0092 წერილის ხასუხად დამატებით ფაქტობებია, რომ აჭარის ავტონომიური რესპუბლიკის ფინანსთა და ეკონომიკის სამინისტრო არ არის წინადმდევი, უცხოური საწარმის სს „ფილიაი ილდა იაფი ხაჩაი ფე თიჯარეთ“-ის საქართველოს ფილიალში მოქრედი კომინტევილიონის უტანაშისად, ქ. ზათუმო, აეროპორტისა და ვახაბრის დასახლებში შედებარე აჭარის ავტონომიური რესპუბლიკის საკუთრებაში არხვებულ 2 გროველი არასახოვლო საბეკონი, დანიშნულებს მიწის ნაკვეთზე (სკ 05.32.06.026 და სკ 05.32.05.022) ფანახორციელის წერილში ხაგნებული მიწის ნახის დაყრა, იმ პირობით თუ აჭარის ავტონომიური რესპუბლიკის არ წარმოეშობა რაიმე ხახის ვალდებულება და სამუშაოების დასრულების შემდეგ დაფრილი მიწის ნაკვეთი იქნება მოსწორებული.

ბატონო აივან,

ხაგა დეტარას

მინისტრი

