Semi-Annual Environmental Monitoring Report

11th № Semestral Report

Reporting Period: July-December 2022

January 2023

Project Number: 50064-001

Loan Number: 3520-GEO

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).

Table of Contents

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	Roads Department
RoW	Right-of-way
SSEMP	Site Specific Environnemental Management Plan
TOR	Terms of Reference
VAT	Value Added Tax
WAH	Working at Height

1 INTRODUCTION

1.1 Preamble

1. Batumi Bypass Road Project: Major Change in Project (Change in Scope, Amount, and Implementation Arrangements) was conducted 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.

2. 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 July - December 2022.

   This report is the 11th EMR for the Batumi Bypass Road Project and 3rd Semi-Annual EMR for the construction of Poti Bridge (please see attachment 1) and Access Roads and Construction of Bakurtsikhe-Tsnori Road Projects (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 existing road to detour the villages and crosses the mountainous area by tunnels. There are tunnels and bridges to bypass the dismantled military base and mountainous area in the middle section. The end section is on flat terrain and joins the existing road while bypass the traffic area.

5. Project outline (km.-1+000 - km.13+325):

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

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

6. The 81-km Poti–Batumi–Sarpi Road ("S2" under Georgian Highway Designation) along the western coast of Georgia, located in the Adjara Autonomous Republic, is a key international highway and international transit route in Georgia. It is connected to the important towns Batumi, Poti and Kobuleti. Batumi is a major Black Sea port and a holiday resort; Poti is the largest port of Georgia; and Kobuleti is a holiday resort. Due to heavy traffic on S2, there has been significant increase in congestion and accidents particularly during the tourist season in Batumi and Kobuleti. The Government of Georgia is constructing two bypass roads around Batumi and Kobuleti to improve traffic flow from these towns.

7. The Project Road, bypassing the city of Batumi to the east, is entirely located in Khelvachauri District. The design alignment goes through the villages of Makhinjauri, Gantiadi, Kapreshumi, Salibauri, Peria, and Makhvilauri. Passing through these villages, the design alignment crosses a diverse landscape 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. Road Department of the Ministry of Regional Development and Infrastructure of Georgia submitted an EIA to the Ministry of Environment and Natural Resources Protection 18 August 2017. Approved by MoEPA on 30 August 2017.

Figure 1. Project Location Map

Table 1. Project Information up to December 2022

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	• 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	1753 days
Remaining time	0 days
Defects Notification Period	3 years
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)

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:

    a. Ensure that the provisions of the approved Environmental Management Plan are reflected in the Contractor's Site-Specific Environmental Management Plan (SSEMP) prior to its acceptance by the Engineer and the Employer, and thereafter ensure that the Contractor complies in every respect with the provisions of the SSEMP
    b. Make sure that approved SSEMP is reflected in the Supervision Consultant's monthly and quarterly report for further compliance of the Contractor
    c. Develop an environmental auditing protocol for the construction period, regularly supervise the environmental monitoring, and submit periodic reports based on the monitoring data and laboratory analysis reports. These reports will be included as an annex to the Supervision Consultant's Monthly Report
    d. Develop a program for hands-on training of Contractor's staff in implementing the SSEMP.

11. Contact details of the main organisations involved in the Project relating to Environmental Safeguards, including lender, borrower, Main Contractor/s and significant sub-contractors are given in **Table 2**.

Table 2. Main Organizations Involved in Project Implementation

Asian Development Bank	Zaigham Naqvi Senior Transport Specialist E-mail: znaqvi@adb.org Ninette R. Pajarillaga Senior Environment Specialist, Country Environnemental Focal E-mail: npajarillaga@adb.org Giorgi Kobaladze – RETA/ADB International Environment Consultant Cell: +995599689834 E-mail: Kobaladze_Giorgi@yahoo.com Nino Nadashvili Associate Safeguards Officer Georgia Resident Mission E-mail: nnadashvili@adb.org Cell: +995 595 070442

Asian Infrastructure Investment Bank	Runze Yu -Investment Operations Specialist E-mail: runze.yu@aiib.org
Road's Department	Gia Sopadze Deputy Head of Environmental Division Tel: (+995) 599 93 92 09 E-mail: sopgia@hotmail.com Luiza Bubashvili Environmental Safeguard Consultant under ADB Financed Projects Tel: (+995) 595 21 91 41 E-mail: Likabubashvili@yahoo.com
PolatYol & Mapa Joint Venture	Ejaz Maqbool Project Manager Tel: (+995) 591 06 37 55 E-mail: Ejaz.maqbool@polatyol.com Rashad Kerimov International Environmental Specialist Tel: (+994) 504 48 18 48, (+995) 591 06 37 51 E-mail: Kerimov_rashad@yahoo.com Ayaz Abdurahmanov Health, Safety & Traffic Manager Tel: (+995) 591 26 73 94 E-mail: Ayaz.abdurahmanov@polatyol.com
SMEC International PTY Limited	Michael Holics International Environmental Specialist Tel: (+995 577 329 095 Email: michael.holics@smec.com
Sub-consultant	Tengiz Lagidze Local Environmental Specialist Tel: (+995) 595 93 96 30 E-mail: tengizlagidze@upg.ge
	Giorgi Shiukashvili Local Environmental Specialist Tel: (+995) 595 10 66 88 E-mail: giorgishiukashvili@upg.ge

12. Under the Contract, the Contractor shall comply with all applicable national, provincial and local environmental laws and regulations as well as applicable respective standards under the Contract. The Contractor shall:

(a) Establish an operational system for managing environmental impacts,

(b) Develop the Environmental Management Plan (EMP) by identifying environmental risks arising from the Works, the mitigation measures to be applied, and monitoring to be carried out,

(c) Implement the required mitigation measures and monitoring,

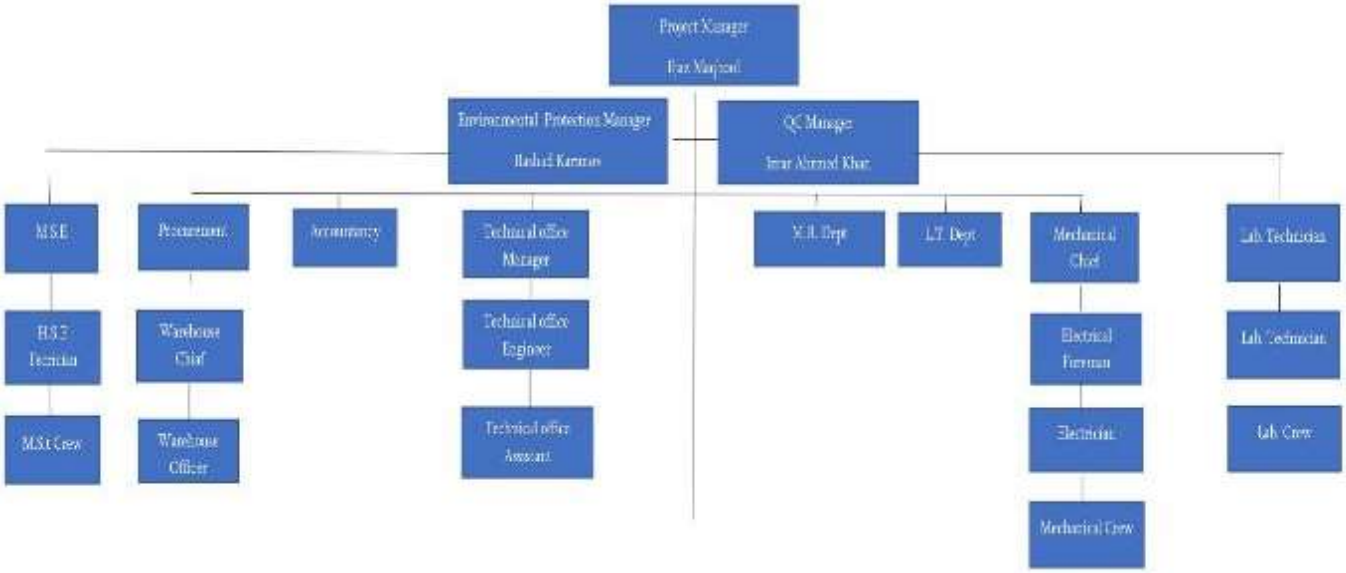
(d) take any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the EMP, and

(e) Submit quarterly reports on the carrying out of such measures to the Engineer.

13. Polatyol & Mapa Joint Venture Project Manager, Mr. Ejaz Maqbool has responsibility for all environmental aspects of construction work undertaken. He will be responsible for strictly monitoring that Polatyol & Mapa Joint Venture services site management team conforms to all environmental aspects in accordance with Polatyol & Mapa Joint Venture environmental access policy and safety plan.

14. Responsibility for daily management for environmental monitoring and implementation of the SSEMP is given to the Environmental Protection Manager Mr. Rashad Karimov. He has direct authority from the Project Manager to give instruction to all site staff regarding environmental issues. The project organization chart for key management staff is provided in **Figure 1**.

Figure 2. Contractor's Project Management Staff



2.3 Project Activities during Current Reporting Period

15. Total Project Progress at the end of June 2022 was 64.67%. As of end of December 2022 is recorded actual paid progress of 77.66% against Planned progress of 100% with the lag of 22.34%.

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. The Contractor stated that they were having financial difficulties and required some assistance from the Employer. The Works on many locations including Critical path items – Tunnels – have been suspended by the Contractor due to financial issues.

17. The Works were fully suspended by the Contractor from August to October 2022. During this period, the Engineer continued site monitoring to control the works and to observe any violations present with regard to Environment as well as HS.

18. Due to financial difficulties, no works were undertaken with regard to utilities before November 2022. Therefore, no works carried out during the reporting period.

However, works resumed during November and continued in December, regarding relocation of BOT and some other communication lines (PC Max, Silknet and Magticom). During the reporting period, several piles were installed in the vicinity of BOT on Bridge No. 5, however, there were no construction works of Bridge No. 5 ongoing in the territory of BOT.

19. During the reporting period, all the tunnel works were suspended until November 2022. Works resumed from November in Tunnel No.1, from Entrance Portal breaking of the piles and proceeded with NATM, also from Exit Portal realignment of steel ribs completed and continued with NATM activities, which resulted in advance of 26m at the end of the reporting period.
20. As for Tunnel No. 2, the NATM Works also resumed from November 2022 from Entrance Portal with drill and blast activities. The Contractor decided to proceed only from the Entrance side and at the end of the reporting period advance for top heading was 534m with benches LHS 384m and RHS 358m.
21. Designs for Emergency Exit for Tunnel No. 2 is still awaited from the Contractor. Land acquisition at Emergency Exit area was finalized in June 2021 and instruction to commence has been given to the Contractor. To date no works have commenced.
22. In Tunnel No. 3, works resumed for Cut and Cover foundation at the end of December 2022.
23. For the Tunnel No 3 Emergency Exit, no works during the reporting period.
24. At the end of December 2022, at Tunnel No. 4 Exit side the Contractor resumed Cut and Cover foundation works from November 2022 and completed all the foundations before the end of the period. By the end of December 2022, the Contractor commenced placement of formwork for Arc concreting. As for Entrance Portal, works for utility boxes are still ongoing.
25. In Tunnel No. 5 no works have been carried out during the reporting period.
26. The Contractor finally submitted comparative BOQ for MEP on 17 December 2022, which is still under review.
27. The construction of the Bridges during the reporting period was minimal. Construction works were fully suspended from August to October 2022. During this reporting period, the Contractor completed the piling Works at Bridge 7.1, carried out parapet and walkway construction on Bridge No. 10 and Bridge No. 11, installed beams on Bridge No. 1 and proceeded with deck construction, which is really slow. Also, started preparation for beam installation at Bridge No. 3.2, continued with foundation and column works for Bridge No. 13A. However, there is a serious lack in essential resources due to the financial issues of the Contractor and hence, the Bridge Works are far behind schedule.
28. During the reporting period, the Contractor has not done any fill works. From October 2022, the Contractor commenced works at High Cut area at Km 5+476 and completed 39 piles out of 79.
29. At the end of the reporting period, the Contractor has not submitted any claims on Extension of Time (EOT). After two notices of correct issued by the Engineer as per GCC Sub-Clause 15.1 [Notice to Correct], the joint site visit took place on 1 November 2022, where the Employer and the Contractor together with the Engineer agreed the short-term milestones for the Contractor to complete, in order to continue discussions about the completion of the Project.
30. The Contractor has met the deadlines and even submitted the monthly statement and respectively IPC No. 29 was prepared by the Engineer for the month of

December 2022. 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

No.	Work Description	Dimension	Design	Actual	%	Note
I.	**Setting Out and Site Clearance**					
Basic topography and detailed setting out						
1	Main road	km	14.325	13.125	91.62	
	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	52,775.09	56.93	
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	173,718.80	126.32	
	Arrangement of embankment material to design level	m^3	603,734.55	346,690.56	57.42	
	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	113,682.54	35.46	
III.	**Water Culverts and Drainage**					
3.1	Cast-in-situ RC culvert - sq. m. 6,0∂ X 5,0m	piece	10	3	30.00	
	Precast RC culvert - sq.2,50∂ 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	
	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	Piece	1	0	0	

	RC culvert - sq. m. 1,30m X 1,80m					
	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.5,00∂ X 2,50m	piece	1	1	100	
	Cast in situ RC culvert - sq.5,00∂ X 4,00m	piece	1	1	100	
Design Variation						
3.3	Cast-in-situ RC culvert - sq.1,50∂ 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 5+955 – km 5+994	m	30.85	30.85	100	
	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	
Gabion Wall						
4.2	km 0+230 - km 0+265	m	35.00	0	0	CL 103
	km 0+850 - km 0+904	m	54.00	0	0	CL 103
	km 12+475 - km 12+725	m	250.00	0	0	
	km 12+814	m	50.00	0	0	Left
	km 12+814	m	48.00	0	0	Right
	km 12+831	m	50.00	0	0	Left
	km 12+831	m	54.00	0	0	Right
	km 13+940 - km 14+120	m	180.00	0	0	
"Terramesh " System						

4.3	"Terramesh " system arrangement	m	2769.00	0	0	
Design Variation						
4.4	Slope stabilization by soil nailing at section km10+102 - km10+340	m	238.00	238.00	100	
4.5	Drilled and filled RC pile wall at section km 11+ 460 - km 11+503	m	43.00	43.00	100	
4.6	Reinforced concrete supporting wall at section km 11+513 - km 11+585	m	72	72	100	
4.7	RC Retaining Wall (CL 203) at Km 0+310 – Km 0+377	m	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	357.6	76.90	
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	25.0	15.63	
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	1,490.00	95.64	
	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; BR-6C: BR-6D; BR-08A	Unit	142.00	142.00	100	
	Column: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13;	Unit	282.00	278.00	98.58	

	BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A					
	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	31.00	86.11	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	533	79.91	
	Unification of prestressed beams by cast in situ RC concrete slab	m	4,669.0	3,334.0	71.41	Construction in progress
5.1	Construction of cast in situ sidewalk	m	4,669.0	3,275.0	70.14	
5.2	Construction of cast in situ rails	m	4669.0	1,414.0	30.28	
VI. Tunnels						
Tunnel No. 3						
	Utility Box arrangement	m	1610	912	56.6	
6	Construction of pile wall system at the exit portal	m	N/A	N/A	100	
	Construction of pile wall system at the entrance portal	u	101	101	100	
	Soil excavation at the exit portal	m	749	749	100	
	Tunnel excavation and installation temporary lining	m	749	749	100	
	Construction of permanent lining	m	749	749	100	
	Arrangement of Portal part	m	56	36	64.0	
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	1000 m^3	51.25	51.25	100	

	entrance portal					
	Tunnel excavation and installation temporary lining	m	843.0	843.0	100	
	Construction of permanent lining	m	843.0	843.0	100	
	Arrangement of the Portal Part	m	224	86.00	38.4	
	Arrangement of the Drainage System	m	1,067.00	200.00	19.00	
Tunnel No. 5						
8	Tunnel excavation and installation of temporary lining	m	542	542	100	
	Portal excavation	m^3	N/A	N/A	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	4	0,8	
	Vertical Jet Grouting	u	625	625	100	
Tunnel No. 2						
10	Construction of pile system wall at the entrance portal	u	119	119	100	
	Tunnel excavation and construction of temporary	m	720	350.00	49.00	

	support					
	Construction of pile system wall at the exit portal	u	96	96	100	

31. In June 2022, the total number of Contractor's personnel was 521, 112 of whom are foreigners and 409 are local (Georgian) employees, in December 2022 the total number of personnel is 328, 94 of whom are foreigners and 234 are locals **(Table 4).**

Table 4. Contractor's Personnel as of December 2022

N	POSITION	POLATYOL		SUB-CONTRACTORS		SUM
		Foreign	Local	Foreign	Local	
1	Project Manager	1	0	0	0	1
2	Site Manager	1	0	0	0	1
3	Engineer staff	10	0	0	0	10
4	Technical office	4	1	0	0	5
5	Technicians	6	0	0	0	6
6	Skilled Labour	12	23	0	0	35
7	Unskilled Labour	0	24	0	0	24
8	Driver	1	23	0	10	34
9	Operator	5	14	0	0	19
10	Finance & Administration	1	2	0	0	3
11	HSE Team	1	3	0	0	4
12	Environmental Manager	1	0	0	0	1
13	Foreman	6	0	0	0	6
14	Repairman	3	6	0	0	9
15	Security	0	34	0	0	34
16	Forest Expert [1]	0	0	0	0	0
17	Mechanical Department	7	7	0	0	14
18	Designer	1	0	0	0	1
19	Tunnel works Subcontractor	0	0	17	40	57
20	Blasting works (Subcontractor)	0	0	4	22	26

[1] Contractor is outsourcing this position when required.

N	POSITION	POLATYOL		SUB-CONTRACTORS		SUM
21	Concrete works (Subcontractor)	0	0	2	4	6
22	Pile construction team (Subcontractor)	0	0	0	2	2
23	Stone column works (Subcontractor)	0	0	0	0	0
24	Pre-cast beam (Subcontractor)	0	0	5	11	16
25	Catering Service Subcontractor	0	0	6	8	14
	Total	**60**	**137**	**34**	**97**	**328**

Figure 3. Contractor's Personnel as of December 2022

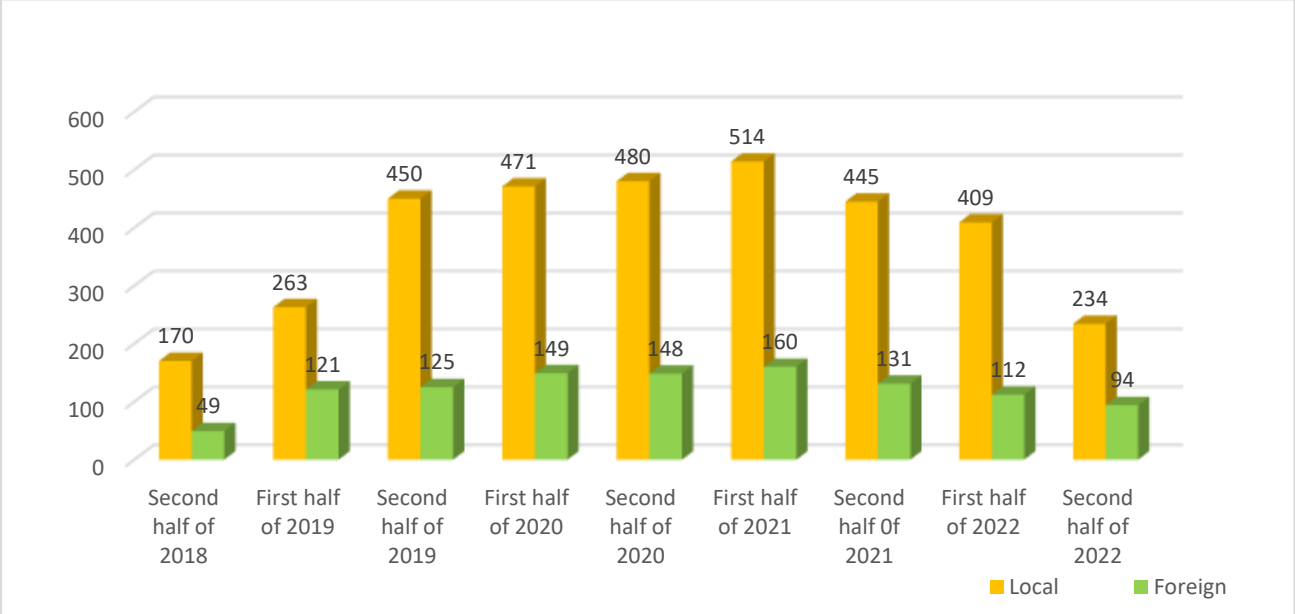
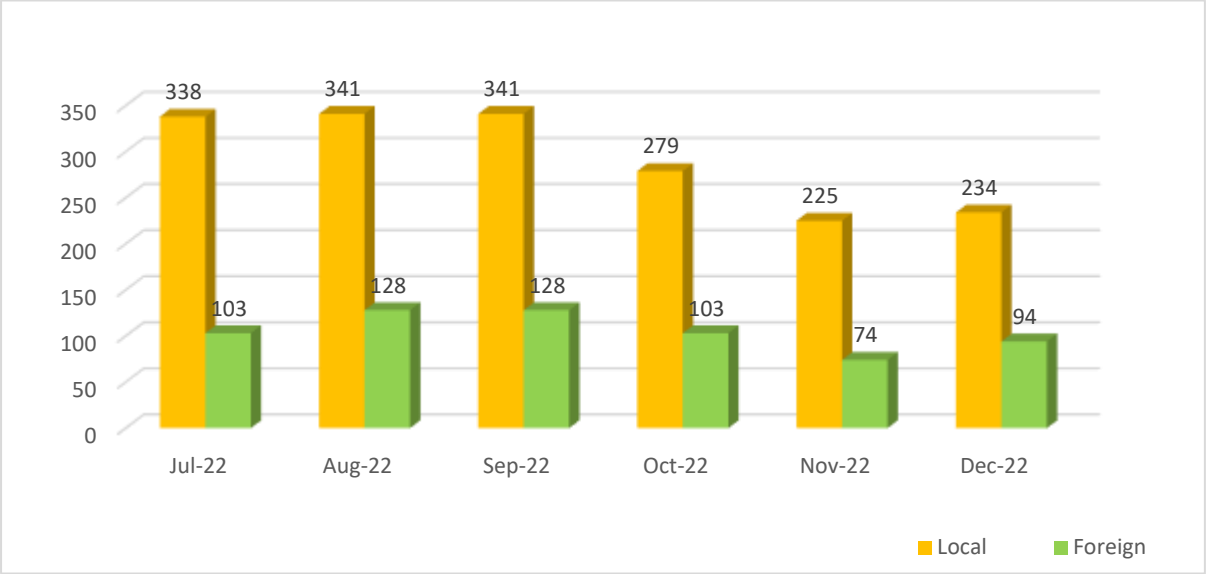


Figure 4. Contractor's Personnel during Reporting Period



2.4 Changes to Project Design and Agreed Construction Methods

32. 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 July-December 2022 Reporting Period

Variation No	Date	Description of the Variation Orders
077	29.07.2022	Regarding the Arrangement of the RC Retaining Wall at km 4+174
078	17.11.2022	Replacement of the Terramesh System with RC retaining wall at km 0+074-0+216
079	17.11.2022	Replacement of the Terramesh System with RC Retaining Wall at section km 0+612 – km 0+680
080	17.11.2022	Arrangement of Sewerage adjacent to km 6+880
081	17.11.2022	Arrangement of the additional riprap at km 5+920 - 5+935
082	18.11.2022	Bridge No. 13A at km 11+968-12+097
083	21.11.2022	Slope Protection between bridges No. 3.2 and 3.1 at Km 3+200 - 3+280
084	21.12.2022	4Nos. Relocated Graves Improvement Works

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

33. During daily monitoring, the Engineer's environmental specialists Mr. Michael Holics (International), Mr. Tengiz Lagidze (National) and Mr. Giorgi Shiukashvili (National) assess the environmental impacts caused by the Contractors activities and their compliance with the Project's environmental requirements.

34. As for the site assessment, besides weekly visits on relevant sites, at the end of each month there is full in-depth site visit done by the Engineer and findings are send 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.

35. Mr. Michael Holics was mobilised from Australia for the period 17th November to 17th December 2022. During the remaining reporting period he had periodic home-based input in the project regarding environmental issues.

36. 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.

37. 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.

38. The Contractor's environmental specialist Mr. Rashad Kerimov (International) visited project site during December for few days. Despite the Engineer's numerous requirements to mobilize Environmental specialist full time for site monitoring purposes, the Contractor has failed to action this task which has adverse impact on the Project with regard to the environmental protection and fulfilment of the obligations as outlined in SSEMP.

3.2 Site Monitoring/Inspections

38. In the second half of 2022 (July–December) the Engineer's specialists Michael Holics, Tengiz Lagidze and Giorgi Shiukashvili conducted monitoring of the following Project sites:

- Office and accommodation camp of the Contractor
- Construction camp of the Contractor
- Access roads to Bridges and Tunnels
- Tunnel No 1
- Tunnel No 2
- Tunnel No 3
- Tunnel No 4
- Tunnel No 5
- Bridges Nos 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

39. During the reporting period, the works recommenced from October 2022, therefore, after this period, continuous non-compliances were identified at the Construction site at different locations. In particular, non-compliances identified were related to the following matters:

- Construction and household (plastic containers etc.) waste
- Waste concrete
- Improperly stored materials
- Metal scraps
- Waste burning

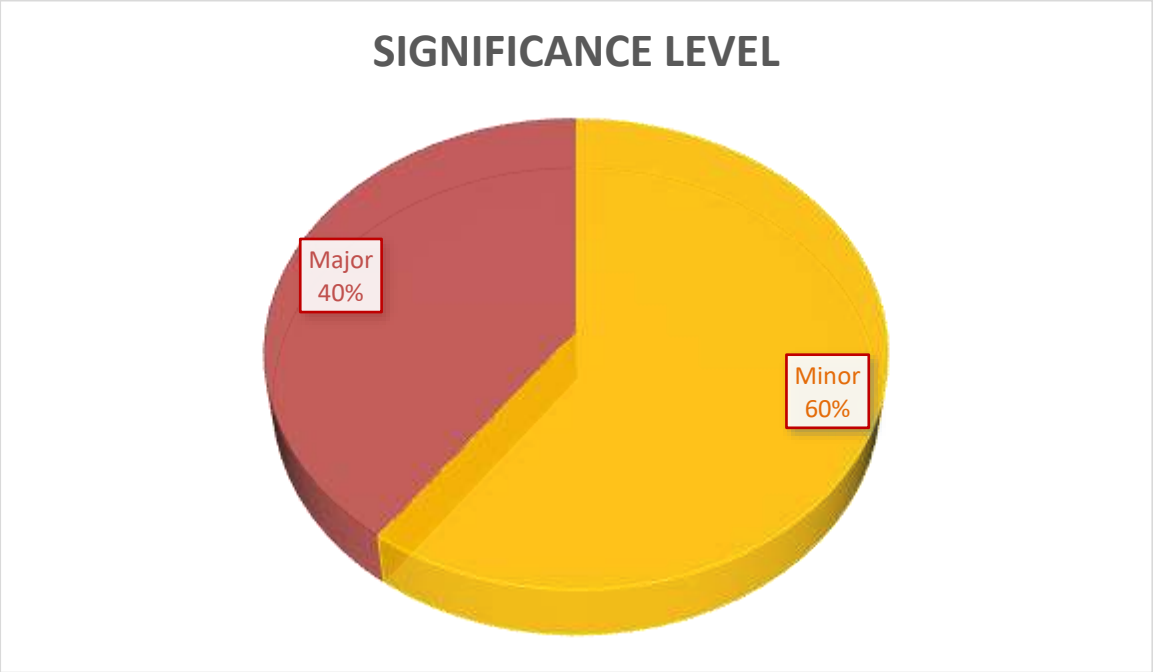
40. Issues are tracked via letters (See **Annex 5 ENCRs and letters)** and Non-Conformance notices, which are summarized in **Table 6** for the current reporting period as well as for the Project to date.

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

Total Number of Environmental Issues for the Project	
Number of Open Issues	201
Number of Closed Issues	199
Percentage Closed	99%
Issues Opened this Reporting Period (July–December 2022)	6
Issues Closed this Reporting Period (July–December 2022)	4

41. 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



42. From mentioned non-conformances, 4 are already 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 the **Chapter 5.2, Table 8**.

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

3.4 Non-Conformance Notices

44. **Table 8** lists the non-conformances which occurred during the July-December 2022 reporting period.

45. The Contractor was informed about the pending environmental problems and an action plan was worked out to implement corrective actions and term 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 (January- June 2022)

N	ENCR	LOCATION	DESCRIPRION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
February 2022						
1	ENCR 124	Bridge No. 1	Plastic waste. Waste burn	The waste was collected, staff were warned about the dangers of waste burning	February	Completed February
2	ENCR 125	Tunnel No. 1 Entrance	Plastic waste. Waste burn	The waste was collected,	February	Completed February

N	ENCR	LOCATION	DESCRIPRION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
				staff were warned about the dangers of waste burning		
3	ENCR 126	Tunnel No. 2 Exit	Plastic waste. Waste burn	The waste was collected, staff were warned about the dangers of waste burning	February	Completed February
March 2022						
4	ENCR 127	Tunnel No. 1 Entrance	Household waste	The waste was collected and disposed according to the requirements	March	Completed March
5	ENCR 128	Bridge No.1	Household waste	The waste was collected and disposed according to the requirements	March	Completed March
May 2022						
6	ENCR 129	Tunnel No. 3 Exit portal	Plastic waste Waste container is full	Disposed to the dumpsite	May	Completed May
7	ENCR 130	Tunnel No. 3 Exit portal	Sedimentation basin is full	Sedimentation basin was cleaned and site manager is reminded to clean as it is full	May	Completed May

Table 8 Identified Non-Conformances for July-December 2022 reporting period

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
November 2022						
4	ENCR 133	Tunnel No. 1 Entrance	Oil spill from the damaged	Contaminated soil should be	March	Completed March

N	ENCR	LOCATION	DESCRIPRION	CORRECTIVE ACTIONS	TIMEFRAME	STATUS
		portal	excavator	removed, absorbers and drip trays should be mobilized		
5	ENCR 134	Tunnel No. 2 Entrance portal	Tunnel entrance is contaminated by oil. Chemical storage is not insulated. 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

46. There are no non-conformances pending from last Semi-Annual Environmental Monitoring Report.

47. The Contractor's environmental Specialist is not mobilized on Site full time and therefore, construction site is not regularly checked, and problems are not timely identified by the Contractor. This approach is not acceptable for the Engineer, and this has been communicated many times to the Contractor.

48. Due to above point, trainings and toolbox talks are not regularly conducted, which directly results on the frequent similar non-conformances. The Contractor was required to take proactive approach to environmental management which to date has not been the case.

3.5 Trends

49. Most of the violations by the Contractor are related to the 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.

50. Additionally, during the suspension of the works, the construction site was not actively controlled by the Contractor therefore during this period, several instances of construction site pollution by the locals were observed. Pollutants were household and construction waste dumped within the right of way.

51. Compared to the last reporting period number of issued ENCR is decreased due to the fact that from August to October 2022 the works were fully suspended by the Contractor due to his financial issues. 6 ENCRs issued in the second half of 2022 and 7 in the first half of 2022, and the nature of the violations has remained the same (plastic food containers), the damage caused to 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	Gantiadi km3+900	Makhinjauri km1+950	Makhinjauri km0+550	Garadoki km7+500	Maximum Allowable
1	Chlorides	16.3 mg/l	18.2 mg/l	15.0 mg/l	17.2 mg/l	17.35 mg/l	16.98 mg/l	15.2 mg/l	-
2	Sulphates	8.4 mg/l	3.3 mg/l	4.0 mg/l	7.3 mg/l	11.5 mg/l	11.5 mg/l	2.6 mg/l	-
3	Polyphosphates	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	5
4	Nitrates	0.45 mg/l	0.6 mg/l	0.35 mg/l	0.3 mg/l	0.45 mg/l	0.4 mg/l	0.5 mg/l	25
5	Alkalinity	1.4 mg/l	1.3 mg/l	1.1 mg/l	1.5 mg/l	1.4 mg/l	1.5 mg/l	0.8 mg/l	-
6	Lead	<0.004 mg/l	<0.002 mg/l	<0.001 mg/l	<0.001 mg/l	<0.001 mg/l	<0.002 mg/l	<0.002 mg/l	5
7	Zink	0.08 mg/l	0.07 mg/l	0.05 mg/l	0.06 mg/l	0.05 mg/l	0.06 mg/l	0.05 mg/l	5

*Quarterly monitoring of the water quality was done on 08.09.2022 and 26.12.2022.

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. During the air quality monitoring, instead of measuring PM2.5 and PM10, the Contractor in the 4th quarter of 2022 measured only dust (**Table 11**).

56. The Contractor failed to provide proper air quality monitoring results that was required by the Engineer to meet the Georgian and IFC requirements. The Contractor was required to do the monthly monitoring instead of quarterly monitoring as required by the ADB representatives during the last site visit in November 2022.

57. During the reporting period, the blasting activities recommenced from November 2022. Blasting time is strictly controlled and it 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 as not to have any negative effect on the sensitive receptors due to vibration or noise. According to the international standards, the allowable PPV (Peak Particle Velocity) value is 25, and according to the EIA of Batumi Bypass Road Project it is limited to 5. As the discharge force is unchanged, vibration testing is conducted at different locations and ranges within PPV-5 and are acceptable.

Table 10. Noise Measurement Results

Location	First quarter	Second quarter
Makhinjauri km0+550	45.9 dB	40.2 dB
Makhinjauri km1+950	38.2 dB	37.1 dB
Gantiadi km3+900	38.3 dB	39.1 dB
Benze km4+700	42.9 dB	42.8 dB
Salibauri km5+300	37.3 dB	45.3 dB
Makhvilauri km11+500	44.9 dB	44.0 dB
Garadoki km7+500	45.8 dB	45.1 dB

*In the **Table 10** are shown result for third/fourth quarter measurements

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. Air Quality Parameters Measured at Makhinjauri Km 0+550

No.	Parameter Measured	Measurement result (mg/m^3) maximal unit	Georgian Standard (mg/m^3)	IFC Guideline Value (Limit (mg/m^3)	Name of method
1	Nitrogen Dioxide (NO_2)	N/O	0.85	0.2 / 1 Hour 0.04 /1 Year	Tech.Reg. N435-13
2	Hydrogen Sulphide (H_2S)	N/O	0.008	N/A	Tech.Reg. N435-13
3	Sulphur Dioxide (SO_2)	N/O	0.5	0.5 / 10 min	Tech.Reg. N435-13
4	Carbon	N/O	5.0	N/A	Tech.Reg. N435-

	Monoxide CO				13
5	Dust (solid particles)	0.21 mg/m3	0.3	(*IFC does not have a standard for “inorganic dust”. Instead IFC applies standards for $PM_{2.5}$ and PM_{10}). PM_{10} – 0.02/1 Year 0.05/24 Hour PM_{2}, 5-0.01/1 Year 0.025/24 Hour	GOST P ISO9096-06
6	Hydrocarbons (C_nH_m)	N/O	_	N/A	Tech.Reg. N435-13

* Monitoring of noise, air quality and vibration took place on 08.09.2022 and 26.12.2022.

4.2 Summary of Monitoring Outcomes

59. The frequency and the type of the conducted monitoring of the air by the Contractor does not constitute the enough basis for the Engineer to assess environmental impact by the 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 July and December 2022, 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	664

N	MATERIALS	UNIT	QUANTITY
3	Cement	T	3630
4	Additives	T	108
5	Explosives	T	17.5

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. The Contractor has concluded an agreement with Sanitary Ltd concerning hazardous residual water and sewage water and concluded 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	29 m^3	Camp septic tanks	"Sandasuftaveba" LTD
2	Domestic waste	92 m^3	Camp and Plant Yard wastebaskets	"Sandasuftaveba" LTD
3	Used tires	72 pcs	Workshop designated area	"Sanitary" LTD
4	Used batteries	82 pcs	Workshop designated area	"Sanitary" LTD
5	Hydraulic and used oil	453 liters	Oil Change designated area	"Sanitary" LTD
6	Paint and other chemicals	2.1m^3	Workshop designated area	"Sanitary" LTD
7	Chemical additive tanks	25 pcs	Plant yard designated area	"Sanitary" LTD

8	Oil drums	24 pcs	Plant yard designated area	"Sanitary" LTD
9	Used food oil	24 liters	Camp separate wastebaskets	"Sanitary" LTD
10	Bulbs, cartridges	4 pc	Camp separate wastebaskets	"Sanitary" LTD
11	Medical waste	1.8 m^3	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 the 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 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, who is responsible for maintaining safety and protection against accidents. He is available on site every day.

4.5.1 Community and Worker Health and Safety

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

Table 14. Incidents and Accidents Log

N	DATE	DESCRIPTION	MEASURES TAKEN	FOLLOW UP
1	28.12.2022	During the working process, the crane was damaged and the crane arm broke. The Crane Operator did not suffer any damage.	Near miss.	

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

Table 15. Health and Safety Trends

Incident	Reporting Period (July – December 2022)	Total
Near Miss	1	7
Accident Minor	0	15
Accident Major	0	4
Incident Minor	0	9
Incident Major	0	5

4.6 Contractor's Training

71. According to requirements of SSEMP AIDS and Hepatitis trainings, which needs to be conducted regularly on a quarterly basis, was carried out in the 22 September and 28 November 2022.

72. HSE trainings were carried out on 19 and 22 November see **Annex 6 [Trainings]**.

4.7 Community Consultation

73. According to requirements of SSEMP and Community Liaison Plan (CLP), public liaison meetings were conducted at Makhinjauri on 28.09.2022 and 27.12.2022. **See photos 17,18**

74. 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

75. A total of 210 persons have submitted grievances across 11 categories to the GRC. Out of these, 150 grievances have been resolved as of 31 December 2022. Most people (80) applied for damage to their assets caused by construction activities, out of which 47 have been closed. 41 APs requested inclusion of their residential structures or land plots in the acquisition list, out of which 34 cases are closed. 28 Aps expressed dissatisfaction due disturbance by noise/vibration and dust, out of which 14 cases closed.

76. In October, no cases were resolved, 1 new grievance was received.

77. In November 1 case has been resolved, 1 new grievance was received.

78. In December 1 case was resolved, no grievance was received.

79. For other details please see **Table 16** below.

Table 16. Summary of Grievances by Category

N	NATURE OF GRIEVANCES	NO OF TOTAL GRIEVANCES	RESULT		REMARKS
			Measures Taken	Resolved	
1	Inclusion in LARP	4	7	34	
2	Compensation Rate	14	2	12	
3	Registration/ownership status	7	0	7	
4	Damage to infrastructure/Assets	80	33	47	16 cases are from tunnel blasting zones.
5	Disturbance by noise/vibration/dust/flood	28	14	14	9 cases are from tunnel blasting zones.
6	Crop Compensation	7	0	7	
7	Loss of access road	12	3	9	
8	Recruitment/Employment	1	0	1	
9	Road upgrading	2	0	2	
10	Loss of Business	1	0	1	
11	Other	17	1	16	
	Total	210	60	150	

5 FUNCTIONING OF THE SSEMP

5.1 SSEMP Review

80. SSEMP was prepared by the Contractor and submitted to the Engineer on 30 May 2018 by letter GEO/BB/103-18 is prepared in a good manner despite certain inconsistency. In March 2019 the Contractor submitted an updated SSEMP to the Engineer which considered ADB, RD and Engineer's comments. It includes all aspects of project construction and construction sites. In particular:

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

81. As per Engineer's request (Letter Ref. 5015001/2/1138 dated 15 November2019), the Contractor updated the SSEMP on 18.04.2021 and additionally prepared EMPs for Stone Column area, N2 Concrete Batching Plant and separate EMPs for each tunnel and bridge.

82. Considering the unanticipated event of outbreak of pandemic infectious disease of COVID 19 causing large number of people to be infected and reported deaths, travel restrictions, lockdowns, workplace hazard and facility closures, the Contractor updated the SSEMP by including one section related to COVID-19 and "COVID-19 Outbreak Management Plan".

6 GOOD PRACTICE

6.1 Good Practice

83. No good practice is observed during the reporting period.

7 SUMMARY AND RECOMMENDATIONS

7.1 Summary

85. During the reporting period, the Contractor has not carried out much of the work, which respectively had less of the impacts on the Environment. However, since the resumption of the works, the environmental management by the Contractor past two months could be assessed as insufficient and ineffective.

7.2 Recommendations

86. The Contractor to conduct monthly measurements of water quality, noise, vibration, and air quality in accordance with the Project requirements – Q1-Q2 2023.

87. The Contractor shall take proactive measures and increase number of trainings for the personnel to raise awareness regarding the Environmental protection – Q1-Q2 2023.

88. The Contractor to develop effective plan for overall waste management to avoid pollution of work sites – Q1-Q2 2023.

82. The Contractor has repeatedly been requested by the Engineer at Weekly progress meetings to submit tree-planting program in accordance with the Contract and EIA – Q1 2023.

89. The Contractor should develop and submit noise barrier design – Q1 2023.

8 ANNEXES

Annex 1. Project Photos

Annex 1: Photos	
Photo 1- Office camp 	**Photo 2 – Office camp** 
Photo 3 – Laboratory 	**Photo 4 – Bridge No.9 waste** 
Photo 5 – Bridge No.10 waste 	**Photo 6 – No.2 Batching plant construction waste** 

Annex 1: Photos	
Photo 7 – Construction camp waste 	**Photo 8 – Construction camp waste** 
Photo 9 – Construction camp waste 	**Photo 10 - Bridge No.12-13 waste** 

Annex 1: Photos

Photo 11 - Improper storage of materials

Photo 12 - Precast yard cement bags

Photo 13 – Precast yard concrete blocks

Photo 14- Training

Photo 15- Training

Photo 16- Training

Annex 1: Photos	
Photo 17– Public liaison meeting 28.09.22	**Photo 18 - Public liaison meeting 27.12.22**
	

Annex 2. Air Quality and Noise monitoring results

2.1 Atmospheric air test

საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ. ბათუმი 6010. სვიშჩევსკის №80 ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com		GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE SWISHEVSKY STREET №80.6010 BATUMI TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com

The Protocol of the Test №3903

Date: 28.09.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Makhinjauri 0+550 section 28.09.2022 10:10

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

Date of sample entry in the laboratory: 28.09.2022 14:55

Place and date of performance of laboratory activity: Batumi Makhinjauri 0+550 28.09.2022 and Lepl – Laboratory Research Center, Batumi SWISHEVSKY STREET №80 28.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3903 Appeal №:475	Nitrogen dioxide (NO_2)	0.1mg/m3	Tech. Reg .435-2013
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-2013
	Sulfur dioxide (SO_2)	0.1mg/m3	Tech. Reg .435-2013
	Carbon oxide (CO)	Not detected	Tech. Reg .435-2013
	Dust	0,19mg/m3	ISO 9096-2017
	Hydrocarbons (CnHm)	0.01mg/m3	Tech. Reg .435-2013

The result spreads only on the presented sample

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: k.Kupatadze

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საქართველო
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E-MAIL: samebalab@gmail.com

The Protocol of the Test №3909

Date: 28.09.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Makhvilauri region 11+500 km 28.09.2022 13:10

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

Date of sample entry in the laboratory: 28.09.2022 14:55

Place and date of performance of laboratory activity: Batumi, Makhvilauri region 11+500km 28.09.2022 and Lepl – Laboratory Research Center, Batumi SWISHEVSKY STREET №80 28.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3909 Appeal №:481	Nitrogen dioxide (NO_2)	Not detected	Tech. Reg .435-13
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO_2)	0.1mg/m3	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,24 mg/m3	ISO 9096-2017
	Hydrocarbons (CnHm)	0,03 mg/m3	Tech. Reg .435-13

The result spreads only on the presented sample

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: K.Kupatadze

საქართველო
აჭარის ავტონომიური რესპუბლიკის
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The Protocol of the Test №3908

Date: 28.09.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Garodoki 7+500 km 28.09.2022 12:30

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

Date of sample entry in the laboratory: 28.09.2022 14:55

Place and date of performance of laboratory activity: Batumi, Garadoki 7+500 km 28.09.2022 and Lepl – Laboratory Research Center, Batumi, SWISHEVSKY STREET №80 28.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3908 Appeal №:480	Nitrogen dioxide (NO_2)	0.1mg/m3	Tech. Reg .435-13
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO_2)	0.1mg/m3	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,22 mg/kg	ISO 9096-2017
	Hydrocarbons (CnHm)	0.02 mg/m3	Tech. Reg .435-13

The result spreads only on the presented sample

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory K.Kupatadze

საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010.სვიშვესკის ქ.№80 ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა:samebalab@gmail.com		GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE. LEPL LABORATORY RESEARCH CENTRE. SWISHEVSKY ST.№80.6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL:samebalab@gmail.com

აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE -GAC-TL-0308 სსტ ისო/იეც 17025:2017/2018 22.11.2021-22.11.2025

The Protocol of the Test №3914

Data: 30.09.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Salibauri settlement 5 + 300 section. 28.09.2022 13:15-13:20

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): 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski St .No.80 28.09.2022 -30.09.222

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3914 Protocol of the Test №486	Chlorides	11,34 mg/l	РД 52. 24. 407-2006
	Sulfates	5,0 mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,7 mg/l	COST 33045-2014
	Alkalinity	0,95mg/l	COST 31957-2012
	The Lead	0,02 mg/l	COST 31870-2012
	Zinc	0,048 mg/l	COST 31870-2012

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

By the customer and may affect the validity of the results.

Responsible Artist: N.Ghatjava

Q. Tsertsvadze

Head of Exam Lab: N.Ghatjava

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საქართველო
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The Protocol of the Test №3907

Date: 28.09.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Salibauri 5+300 28.09.2022 11:55

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

Date of sample entry in the laboratory: 28.09.2022 14:55

Place and date of performance of laboratory activity: Batumi, Salibauri 5+300 km 28.09.2022 and Lepl – Laboratory Research Center, Batumi, SWISHEVSKY STREET №80 28.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3907 Appeal №:479	Nitrogen dioxide (NO_2)	Not detected	Tech. Reg .435-13
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO_2)	0,1mg/m3	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,20 mg/m3	ISO 9096-2017
	Hydrocarbons (CnHm)	0,01 mg/m3	Tech. Reg .435-13

The result spreads only on the presented sample

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: K.Kupatadze

საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ. ბათუმი 6010. სვიშევსკის №80 ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com		GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE SWISHEVSKY STREET №80.6010 BATUMI TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com

The Protocol of the Test №3906

Date: 28.09.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Benze region km 4+700 28.09.2022 11:30

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

Date of sample entry in the laboratory: 28.09.2022 14:55

Place and date of performance of laboratory activity: Batumi, , Benze region km 4+700 28.09.2022 and Lepl – Laboratory Research Center, Batumi SWISHEVSKY STREET №80 28.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3906 Appeal №:478	Nitrogen dioxide (NO_2)	0.1mg/m3	Tech. Reg .435-13
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO_2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,22 mg/m3	ISO 9096-2017
	Hydrocarbons (CnHm)	0,02 mg/m3	Tech. Reg .435-13

The result spreads only on the presented sample

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: K. Kupatadze

საქართველო
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The Protocol of the Test №3905

Date: 28.09.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Gantiadi km 3+900 09.06.2022 11:10

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

Date of sample entry in the laboratory: 28.09.2022 14:55

Place and date of performance of laboratory activity: Batumi Gantiadi km 3+900 28.09.2022 and Lepl – Laboratory Research Center, SWISHEVSKY STREET №80 28.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3905 Appeal №:477	Nitrogen dioxide (NO_2)	0.1mg/m3	Tech. Reg .435-13
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO_2)	0.1mg/m3	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,20 mg/m3	ISO 9096-17
	Hydrocarbons (CnHm)	0,03 mg/m3	Tech. Reg .435-13

The result spreads only on the presented sample

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: K.Kupatadze

საქართველო
აჭარის ავტონომიური რესპუბლიკის
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The Protocol of the Test №3904

Date: 29.08.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Maxinjauri 1+950 km 28.09.2022 10:40

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

Date of sample entry in the laboratory: 28.09.2022 14 : 55

Place and date of performance of laboratory activity: Batumi, Makhinjauri 1+950 km 28.09.2022 and Lepl – Laboratory Research Center, Batumi SWISHEVSKY STREET №80 28.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3904 Appeal №:476	Nitrogen dioxide (NO_2)	Not detected	Tech. Reg .435-2013
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-2013
	Sulfur dioxide (SO_2)	0.1mg/m3	Tech. Reg .435-2013
	Carbon oxide (CO)	Not detected	Tech. Reg .435-2013
	Dust	0,18 mg/m3	ISO 9096-2017
	Hydrocarbons (CnHm)	0,01mg/m3	Tech. Reg .435-2013

The result spreads only on the presented sample

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: K. Kupatadze

საქართველო
აჭარის ავტონომიური რესპუბლიკის
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The Protocol of the Test №5080

Data :22.12.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Garadoki settlement 7+500 section 21.12.2022 17:32;

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

Date of sample entry in the laboratory :22.12.2022 09:20

Place and date of performance of laboratory activity: Batumi Garadoki settlement 7+500 section 21.12.2022 Laboratory Research Center, Batumi SWISHEVSKY STREET №80 21.12.2022-22.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №:5080 Appeal №:748	Nitrogen dioxide (NO2)	Not detected	Tech. Reg 435-13
	Hydrogen sulfide (H2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,20 mg/m³	ISO 9096-2017
	Hydrocarbons (CnHm)	Not detected	Tech. Reg .435-13

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

საქართველო
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The Protocol of the Test №5079

Data :22.12.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Salibauri Settlement 5+300section 21.12.2022 17:15;

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

Date of sample entry in the laboratory :22.12.2022 09:20

Place and date of performance of laboratory activity: Batumi Salibauri Settlement 5+300section 21.12.2022 Laboratory Research Center, Batumi SWISHEVSKY STREET №80 21.12.2022-22.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №:5079 Appeal №:747	Nitrogen dioxide (NO2)	Not detected	Tech. Reg 435-13
	Hydrogen sulfide (H2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,22 mg/m³	ISO 9096-2017
	Hydrocarbons (CnHm)	Not detected	Tech. Reg .435-13

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

საქართველო
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The Protocol of the Test №5078

Data :22.12.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Benze settlement 4+700 section 21.12.2022 17:00;

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

Date of sample entry in the laboratory : 22.12.2022 09:20

Place and date of performance of laboracory activity: Batumi Benze settlement 4+700 section 21.12.2022 Laboratory Research Center, Batumi SWISHEVSKY STREET №80 21.12.2022-22.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №:5078 Appeal №:746	Nitrogen dioxide (NO_2)	Not detected	Tech. Reg 435-13
	Hydrogen sulfide (H_2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO_2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,23 mg/m³	ISO 9096-2017
	Hydrocarbons (C_nH_m)	Not detected	Tech. Reg .435-13

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

საქართველო
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The Protocol of the Test №5077

Data :22.12.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Garadoki 3+900 section 21.12.2022 16:45;

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

Date of sample entry in the laboratory : 22.12.2022 09:20

Place and date of performance of laboratory activity: Batumi Gantiagi 3+900 Section 21.12.2022 Laboratory Research Center, Batumi SWISHEVSKY STREET №80 21.12.2022-22.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №:5077 Appeal №:745	Nitrogen dioxide (NO2)	Not detected	Tech. Reg 435-13
	Hydrogen sulfide (H2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,19 mg/m³	ISO 9096-2017
	Hydrocarbons (CnHm)	Not detected	Tech. Reg .435-13

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

საქართველო
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The Protocol of the Test №5076

Data :22.12.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Makhinjauri 1+950 section 21.12.2022 16:25;

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

Date of sample entry in the laboratory : 22.12.2022 09:20

Place and date of performance of laboratory activity: Batumi Makhinjauri 1+950 section 21.12.2022 Laboratory Research Center, Batumi SWISHEVSKY STREET №80 21.12.2022-22.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №:5076 Appeal №:744	Nitrogen dioxide (NO2)	Not detected	Tech. Reg 435-13
	Hydrogen sulfide (H2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,17 mg/m³	ISO 9096-2017
	Hydrocarbons (CnHm)	Not detected	Tech. Reg .435-13

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

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The Protocol of the Test №5075

Date:22.12.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Makhinjauri 0-550 section 21.12.2022 16:05;

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

Date of sample entry in the laboratory 22.12.2022 09:20

Place and date of performance of laboratory activity: Batumi Makhinjauri 21.12.2022 and Lepl – Laboratory Research Center, Batumi SWISHEVSKY STREET №80 21.12.2022-22.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №:5075 Appeal №:743	Nitrogen dioxide (NO2)	Not detected	Tech. Reg 435-13
	Hydrogen sulfide (H2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0.21 mg/m3	ISO 9096-2017
	Hydrocarbons (CnHm)	Not detected	Tech. Reg .435-13

Responsible performer specialist: I. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

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The Protocol of the Test №5081

Data:22.12.2022

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

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Batumi Makhvilauri 11+500 section 21.12.2022 18:05;

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

Date of sample entry in the laboratory :22.12.2022 09:20

Place and date of performance of laboratory activity: Batumi Makhvilauri 11+500 section 21.12.2022 Laboratory Research Center, Batumi SWISHEVSKY STREET №80 21.12.2022-22.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №:5081 Appeal №:749	Nitrogen dioxide (NO2)	Not detected	Tech. Reg 435-13
	Hydrogen sulfide (H2S)	Not detected	Tech. Reg .435-13
	Sulfur dioxide (SO2)	Not detected	Tech. Reg .435-13
	Carbon oxide (CO)	Not detected	Tech. Reg .435-13
	Dust	0,18 mg/m³	ISO 9096-2017
	Hydrocarbons (CnHm)	Not detected	Tech. Reg .435-13

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

2.2 Noise test

საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010.ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com		GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE. LEPL LABORATORY RESEARCH CENTRE. KVEDA SAMEBA.6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com

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The Protocol of the Test №3917

Date: 28.09.2022

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

Description of the samples, condition: Noise level determination

Place and date of performance of laboratory activity: Batumi Opizrebi Str.97 28.09.2022

Measurement area	Features	Test result (Sounds max. level LA max. db A	Test result
Makhvilauri Settlement 0+550 10:05	Intermittent noise	43.0db	GOST 23337-14
Makhinjauri Settlement 1+950 10:35	Intermittent noise	37.0db	GOST 23337-14
Gantiadi 3+900 11:05	Intermittent noise	37.2 db	GOST 23337-14
Benze settlement 4+700 11:25	Intermittent noise	40.9 db	GOST 23337-14
Salubauri 5+300 11:50	Intermittent noise	37.0 db	GOST 23337-14
Gorodoki 7+500 12:25	Intermittent noise	41.5 db	GOST23337-14
Makvilauri 11+500 13:05	Intermittent noise	42.1 db	GOST23337-14

The result spreads only on the presented sample

Responsible performer specialist: J.Tsetskhladze

Head of the Testing Laboratory K.Kupatadze

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The Protocol of the Test №5074

Data:22.12.2022

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

Determination of the research (measurement) object: noise level

Place of measurement (performance of laboratory activities), date: Batumi, Opizreb Street No. 97 21.12.2022

Measurement area	Features	Test result (Sounds max. level LA max. db A	Test result
Makhinjauri 0+550 section 16:05	non-constant, fluctuating in time,Intermittent noise	40.2 db	COST 23337-14
Batumi Makhinjauri 1+950 section 16:25	non-constant, fluctuating in time,Intermittent noise	37.1 db	COST 23337-14
Gantiadi 3+900 section 16:45	non-constant, fluctuating in time,Intermittent noise	39,4 db	COST 23337-14
Batumi Benze Section 4+700 at 17:00	non-constant, fluctuating in time,Intermittent noise	42,8 db	COST 23337-14
Batumi, Salibauri Section 5+300 at 17:15	non-constant, fluctuating in time,Intermittent noise	45.3 db	COST 23337-14
Batumi Gorodok settlement 7+500 section 17:32	non-constant, fluctuating in time,Intermittent noise	44,0 db	COST 23337-14
Batumi Makhvilauri 11+500 section 18:05	non-constant, fluctuating in time,Intermittent noise	45,1 db	COST 23337-14

Responsible performer specialist: J. Tsetskhladze

Head of the Testing Laboratory: L.Kekelidze

Annex 3. Water quality results

საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010.სვიშვევსკის ქ.№80 ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა:samebalab@gmail.com		GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE. LEPL LABORATORY RESEARCH CENTRE. SWISHEVSKY ST.№80.6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL:samebalab@gmail.com

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The Protocol of the Test №3914

Data: 30.09.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Salibauri settlement 5 + 300 section. 28.09.2022 13:15-13:20

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): 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski St .No.80 28.09.2022 -30.09.222

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3914 Protocol of the Test №486	Chlorides	11,34 mg/l	РД 52. 24. 407-2006
	Sulfates	5,0 mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,7 mg/l	COST 33045-2014
	Alkalinity	0,95mg/l	COST 31957-2012
	The Lead	0,02 mg/l	COST 31870-2012
	Zinc	0,048 mg/l	COST 31870-2012

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

By the customer and may affect the validity of the results.

Responsible Artist: N.Ghatjava

Q. Tsertsvadze

Head of Exam Lab: N.Ghatjava

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The Protocol of the Test №3913

data: 30.09.2022

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

Description of the samples, condition : River water 3 L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi Benze settlement 4 + 700 section, Chaisubani river water. 28.09.2022 13:00-13:05

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

Date of taking the examination samples 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski st No.80 28.09.2022-30.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3913 Protocol of the Test №485	Chlorides	9,21 mg/l	РД 52. 24. 407-2006
	Sulfates	6,0 mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,45 mg/l	COST 33045-2014
	Alkalinity	0,9 mg/l	COST 31957-2012
	The Lead	0,002 mg/l	COST 31870-2012
	Zinc	0,001 mg/l	COST 31870-2012

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Responsible Artist: N.Ghatjava

Q.Tsertsvadze

Head of Exam Lab: N.Ghatjava

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The Protocol of the Test №3912

Data: 30.09.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi Gantiadi 3 + 900 section, Gantiadi river. 28.09.2022 12:50-12:55

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): 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 28.09.2022-30.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3912 Protocol of the Test №484	Chlorides	9,92 mg/l	РД 52. 24. 407-2006
	Sulfates	5,2mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,5mg/l	COST 33045-2014
	Alkalinity	1,1 mg/l	COST 31957-2012
	The Lead	0,001 mg/l	COST 31870-2012
	Zinc	0, 05 mg/l	COST 31870-2012

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

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Responsible Artist: N.Ghatjava

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Head of Exam Lab: N.Ghatjava

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The Protocol of the Test №3911

Data 30.09.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi, Makhinjauri 1 + 950 section, Makhinjauri river. 28.09.2022 12:35-12:40

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

Date of taking the examination sample (s): 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 28.09.2022-30.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3911 Protocol of the Test №483	Chlorides	13,47 mg/l	РД 52. 24. 407-2006
	Sulfates	4.5 mg/l	COST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,65 mg/l	COST 33045-2014
	Alkalinity	0,9 mg/l	COST 31957-2012
	The Lead	0,001 mg/l	COST 31870-2012
	Zinc	0,04 mg/l	COST 31870-2012

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Responsible Artist: N.Ghatjava

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Head of Exam Lab: N.Ghatjava

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The Protocol of the Test №3910

Data :30.09.2022

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

Description of the samples, condition : River water 3 L in Plastic Bottle

Place of taking the examination sample (s), date: st. Batumi Makinjauri -River Makhinjauri 0+550 km 28.09.2022 12:20-12:25

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

Date of taking the examination sample (s): 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center Batumi 6010. Svishevski St. No. 80 28.09.2022-30.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3910 Protocol of the Test №482	Chlorides	10,63 mg/l	РД 52. 24. 407-06
	Sulfates	4,0 mg/l	GOST 4389-72
	Polyphosphate	<0,01 mg/l	GOST 18309-2014
	Nitrates	0,55 mg/l	GOST 33045-2014
	Alkalinity	0,85 mg/l	GOST 31957-2012
	The Lead	0,002 mg/l	GOST 31870-2012
	Zinc	0,04 mg/l	GOST 31870-2012

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

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Responsible Artist: N.Ghatjava

Q. Tsertsvadze

Head of Exam Lab: N.Ghatjava

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აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE -GAC-TL-0308 სსტ ისო/იეც 17025:2017/2018 22.11.2021-22.11.2025

The Protocol of the Test №3916

Data: 30.09.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi, Makhvilauri settlement, Makhvilauri 11 + 500 section, Makhvilauri river. 28.09.2022 13:45-13:50

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): 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 28.09.2022-30.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3916 Protocol of the Test N 488	Chlorides	11,34 mg/l	РД 52. 24. 407-2006
	Sulfates	4,8 mg/l	GOST 4389-72
	Polyphosphate	<0,01 mg/l	COST 18309-2014
	Nitrates	0,8 mg/l	COST 33045-2014
	Alkalinity	1,1 mg/l	COST 31957-2012
	The Lead	0,001 mg/l	COST 31870-2012
	Zinc	0,05 mg/l	COST 31870-2012

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

By the customer and may affect the validity of the results.

Responsible Artist: N.Ghatjava

Q. Tsertsvadze

Head of Exam Lab: N.Ghatjava

1/1

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The Protocol of the Test №3915

Data:30.09.2022

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

Description of the samples, condition : River water 3 L in Plastic Bottle

Place of taking the examination sample (s), date: st. Batumi Gorodok settlement 7 + 500 section, Akhalsheni river. 28.09.2022 13:30-13:35

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): 28.09.2022 14:55

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski St. No. 80 28.09.2022-30.09.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №3915 Protocol of the Test №487	Chlorides	8,5 mg/l	РД 52. 24. 407-2006
	Sulfates	7,0 mg/l	GOST 4389-72
	Polyphosphate	<0,01 mg/l	GOST 18309-2014
	Nitrates	0,6 mg/l	GOST 33045-2014
	Alkalinity	1,0mg/l	GOST 31957-2012
	The Lead	0,002 mg/l	GOST 31870-2012
	Zinc	0,045 mg/l	GOST 31870-2012

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

By the customer and may affect the validity of the results.

Responsible Artist: N.Ghatjava

Q. Tsertsvadze

Head of Exam Lab: N.Ghatjava

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The Protocol of the Test №5114

Data: 26.12.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of collection of test sample(s), date: Batumi, Salibauri settlement 5+300კმ.
23.12.2022 14:45 – 14:50

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

Date of taking the examination sample (s): 23.12.2022 15:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 23.12.2022 – 26.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №5114 Protocol of the Test №767	Chlorides	18,2 mg/l	ISO 9297-1989
	Sulfates	3,3 mg/l	S.D 52.24.468-2019
	Polyphosphate	< 0,01 mg/l	COST 18309-2014
	Nitrates	0.6 mg/l	COST 33045-2014
	Alkalinity	1,3 მმოლ/ლ	COST 31957-2012
	The Lead	0,002 mg/l	COST 31870-2012
	Zinc	0,07 mg/l	COST 31870-2012

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

Responsible Persona : V Tavdgiridze
L .Verulidze
Q. Tsertsvadze

I Head of structural department : L.kekelidze

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საქართველო
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The Protocol of the Test №5113

Data: 26.12.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi, Benze ,Chaisubani River 4+700კმ.
23.12.2022 14:30 – 14:35

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

Date of taking the examination sample (s): 23.12.2022 15:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 23.12.2022 – 26.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №5113 Protocol of the Test №766	Chlorides	15,0 mg/l	ISO 9297-1989
	Sulfates	4,0 mg/l	S.D 52.24 468-2019
	Polyphosphate	< 0,01 mg/l	COST 18309-2014
	Nitrates	0,35 mg/l	COST 33045-2014
	Alkalinity	1,1 მმოლ/დმ³	COST 31957-2012
	The Lead	0,001 mg/l	COST 31870-2012
	Zinc	0,05 მ mg/l	COST 31870-2012

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

Responsible Persona : V Tavdgiridze
L .Verulidze
Q. Tsertsvadze

1 Head of structural department : L.kekelidze

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The Protocol of the Test №5112

Data: 26.12.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi, Gantiadi , Gantiadi River 3+900კმ.
23.12.2022 14:15 – 14:20

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

Date of taking the examination sample (s): 23.12.2022 15:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 23.12.2022 – 26.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №5112 Protocol of the Test №765	Chlorides	17,2 mg/l	ISO 9297-1989
	Sulfates	7,3 mg/l	S.D 52.24.468-2019
	Polyphosphate	< 0,01 mg/l	COST 18309-2014
	Nitrates	0,3 mg/l	COST 33045-2014
	Alkalinity	1,5 mmol/dm³	COST 31957-2012
	The Lead	0,001 mg/l	COST 31870-2012
	Zinc	0,06 mg/l	COST 31870-2012

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

Responsible Persona : V Tavdgiridze
L .Verulidze
Q. Tsertsvadze

I Head of structural department : L.kekelidze

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The Protocol of the Test №5111

Data: 26.12.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi. Makhinjauri Makhinjauri river 1+950კმ.
23.12.2022 13:50 – 13:55

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

Date of taking the examination sample (s): 23.12.2022 15:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 23.12.2022 – 26.12.2022

Sample № (identification)	Research parameter	Measurement result	Method of research
Registration №5111 Protocol of the Test №764	Chlorides	17,35 mg/l	ISO 9297-1989
	Sulfates	11,5 mg/l	S.D 52.24.468-2019
	Polyphosphate	< 0.01 mg/l	COST 18309-2014
	Nitrates	0,45 mg/l	COST 33045-2014
	Alkalinity	1,4 mmol/dm³	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 : V Tavdgiridze
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Q. Tsertsvadze

I Head of structural department : L.kekelidze

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The Protocol of the Test №5110

Data: 26.12.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi Makinjauri 0+550,38.
23.12.2022 13:30 – 13:35

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

Date of taking the examination sample (s): 23.12.2022 15:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 23.12.2022 – 26.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №5110 Protocol of the Test №763	Chlorides	16,98 mg/l	ISO 9297-1989
	Sulfates	11,5 mg/l	S.D 52.24.468-2019
	Polyphosphate	< 0,01 mg/l	COST 18309-2014
	Nitrates	0,4 mg/l	COST 33045-2014
	Alkalinity	1,5 mmol/dm³	COST 31957-2012
	The Lead	0,002 mg/l	COST 31870-2012
	Zinc	0,06 mg/l	COST 31870-2012

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

Responsible Persona : V Tavdgiridze
L .Verulidze
Q. Tsertsvadze

I Head of structural department : L.kekelidze

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The Protocol of the Test №5115

Data: 26.12.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi Makhvilauri settlement , Makhvilauri the river 11+500 km 23.12.2022 15:15 – 15:20

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

Date of taking the examination sample (s): 23.12.2022 15:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 23.12.2022 – 26.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №5115 Protocol of the Test №768	Chlorides	16,3 mg/l	ISO 9297-1989
	Sulfates	8,4 mg/l	S.D 52.24.468-2019
	Polyphosphate	< 0,01 mg/l	COST 18309-2014
	Nitrates	0,45 mg/l	COST 33045-2014
	Alkalinity	1,4 mmol/dm³	COST 31957-2012
	The Lead	0,004 mg/l	COST 31870-2012
	Zinc	0.08 mg/l	COST 31870-2012

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

Responsible Persona : V Tavdgiridze
I. Verulidze
Q. Tsertsvadze

I Head of structural department : L.kekelidze

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The Protocol of the Test №5109

Data: 26.12.2022

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

Description of the samples, condition : River water 3L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi, Gorodoki settlement, Akhalsheni river7+500კმ.
23.12.2022 13:00 – 13:10

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

Date of taking the examination sample (s): 23.12.2022 15:50

Location and date of laboratory activity: LEPL Laboratory Research Center
Batumi 6010. Svishevski st No. 80 23.12.2022 – 26.12.2022

Sample № (Identification)	Research parameter	Measurement result	Method of research
Registration №5109 Protocol of the Test №762	Chlorides	15,2 mg/l	ISO 9297-1989
	Sulfates	2,6 mg/l	S.D 52.24.468-2019
	Polyphosphate	< 0,01 mg/l	COST 18309-2014
	Nitrates	0,5 mg/l	COST 33045-2014
	Alkalinity	0,8 mmol/dm³	COST 31957-2012
	The Lead	0,002 mg/l	COST 31870-2012
	Zinc	0,05 mg/l	COST 31870-2012

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

Responsible Persona : V Tavdgiridze
L .Verulidze
Q. Tsertsvadze

I Head of structural department : L.kekelidze

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Annex 4. Vibration Test Results

No measurements of blasting works provided yet.

Annex 5. ENCRs

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

Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_131		
Project Name:	Batumi Bypass Road Project	Date raised:	26/07/2022
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 4 Exit Portal		
Non-Conformance details:			
Plastic waste. No waste burning allowed!			
Engineer's Representative: Giorgi Shiukashvili		Signature:	

Part 2 – Corrective Actions (attach any supporting information)

Plastic waste was cleaned from Tunnel No.4 Exit Portal
Burned waste was removed from the construction site

Agreed Close-out Date
Date: 30/07/2022

Contractor's Representative: Nikoloz Shinaev Signature: 26.07.22

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

Engineer's Representative: Giorgi Shiukashvili	Signature:
Closure Date:	

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

ENCR 131

Photo No. 1

Polatyol & mapa Joint Venture

Photo-01

1

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

Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_132		
Project Name:	Batumi Bypass Road Project	Date raised:	26/07/2022
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Bridge No. 9 A2		

Non-Conformance details:

Plastic waste.
Waste burning.
No waste burning allowed!

Engineer's Representative: Giorgi Shiukashvili	Signature:

Part 2 – Corrective Actions (attach any supporting information)

Plastic waste was cleared from Bridge No. 9 A2
Burned waste cleared from Bridge No. 9 A2

Agreed Close-out Date
Date: 30/07/2022

Contractor's Representative: Abdurahmanov A	Signature: 26.07.2022

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

Engineer's Representative: Giorgi Shiukashvili	Signature:
Closure Date:	

Photo-02

Polatyol & mapa Joint Venture

Photo-01

1

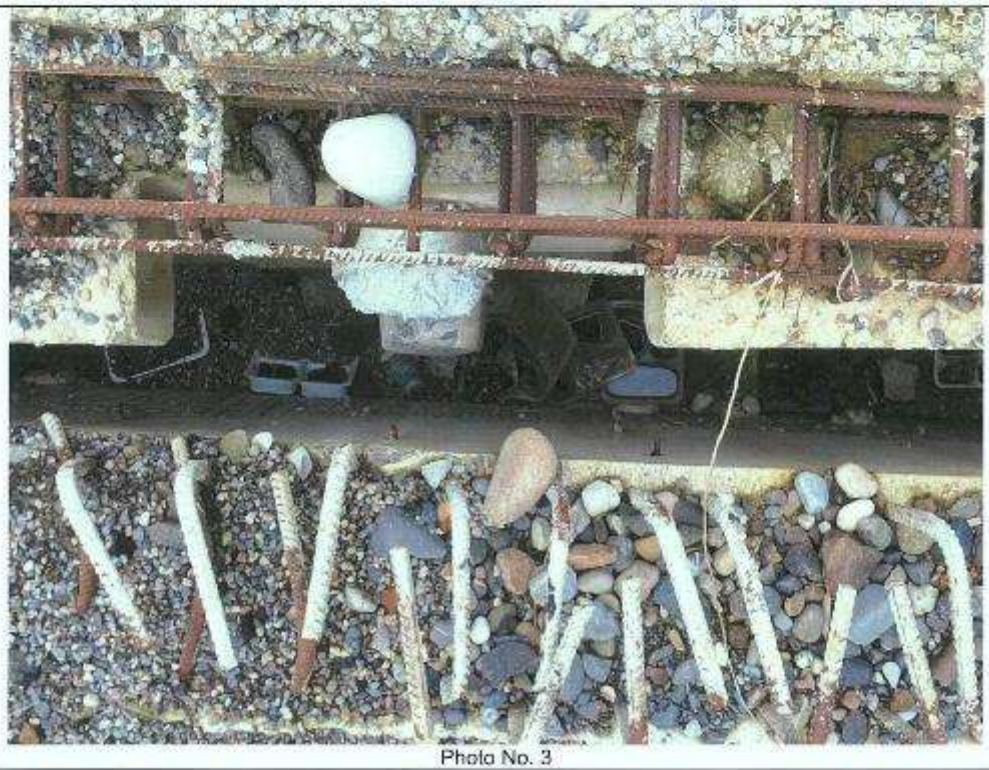

Photo No. 3

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

Photo No. 2

Polatyol	Environmental Non-Conformance Report (ENCR)	SMEC Member of the Sumitomo Joining Group

ENCR 132

Photo No. 1

Photo-08

7

Photo-03

3

Photo-02

2

Photo-03

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

Part 1 – Non-Conformance Description:

Reference Number:	ENCR_134		
Project Name:	Batumi Bypass Road Project	Date raised:	
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No.2 portal 1		

Non-Conformance details:

Non-conformance: Entrance of maintenance area is heavily contaminated with oil spill.
Chemical container area is not insulated.
Maintenance area is not insulated.
No absorbers.
Household and construction waste is scattered all over the territory.
Plastic waste burn.
Environmental training is required!

Engineer's Representative: Giorgi Shiukashvili	Signature:

Part 2 – Corrective Actions (attach any supporting information)

According to Engineer's Instructions, the necessary actions have been taken

Agreed Close-out Date
Date: 15.12.2022

Contractor's Representative:	Signature:

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


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Polatyol & mapa Joint Venture

Photo-06

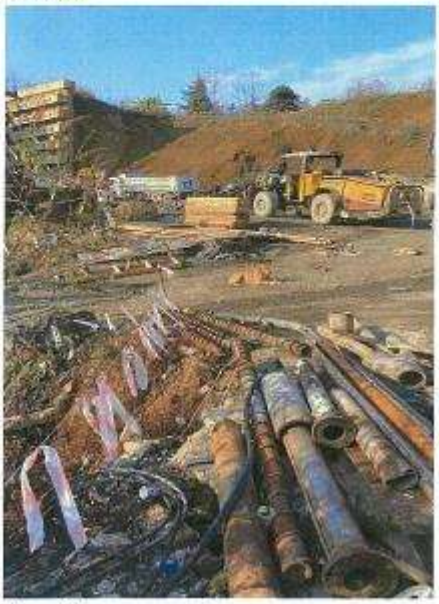


Photo-09

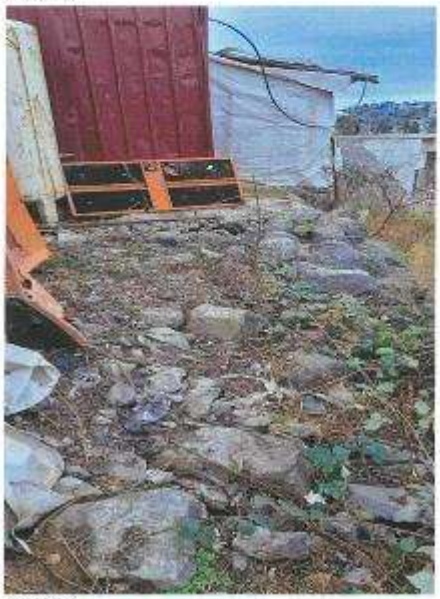


Photo-07

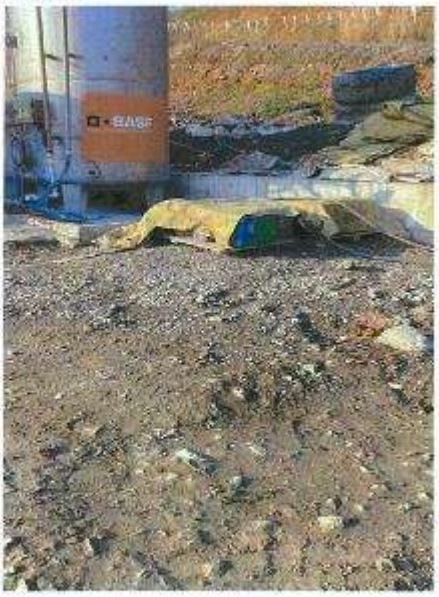
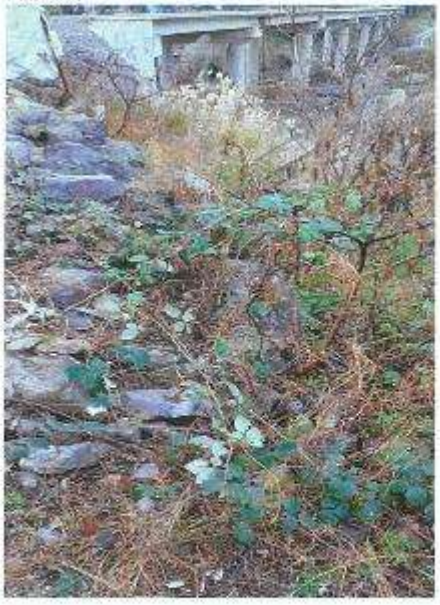


Photo-10



Polatyol & mapa Joint Venture

Photo-01

Photo-03

Photo-02

Photo-04

1

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

Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_135		
Project Name:	Batumi Bypass Road Project	Date raised:	07.12.2022
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 3 Entrance Portal		
Non-Conformance details:			
Oil spill from barrel intended for temporary waste bin, which is full of water and contaminates soil. Contaminated soil should be removed in accordance with SSEMP and stored/handed over to the relevant Sub-Contractor.			
Engineer's Representative: Giorgi Shiukashvili		Signature: 	
Part 2 – Corrective Actions (attach any supporting information)			
		Agreed Close-out Date Date: 15.12.2022	
Contractor's Representative:		Signature:	
Part 3 – Inspection (evidence to support corrective action implementation)			
Engineer's Representative:		Signature:	
Closure Date:			

Photo No. 4

Photo No. 3

Photo No. 2

ENCR 135

Photo No. 1

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

Part 1 – Non-Conformance Description:			
Reference Number:	ENCR_136		
Project Name:	Batumi Bypass Road Project	Date raised:	12.12.2022
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Construction Campsite		
Non-Conformance details:			
Refuelling area should be properly insulated with no open barrier and leaks. Proper cover should be arranged, part of the area is open, and it floods with the rainwater. Absorbers should be arranged to collect minor fuel spills.			
Engineer's Representative: Giorgi Shiukashvili		Signature: 	

Part 2 – Corrective Actions (attach any supporting information)	
	Agreed Close-out Date Date: 30.12.2022
Contractor's Representative:	Signature:

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

Photo No. 5

Photo No. 4

Photo No. 3

Photo No. 2

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

ENCR 136

Photo No. 1

Photo No. 9

Photo No. 8

Photo No. 7

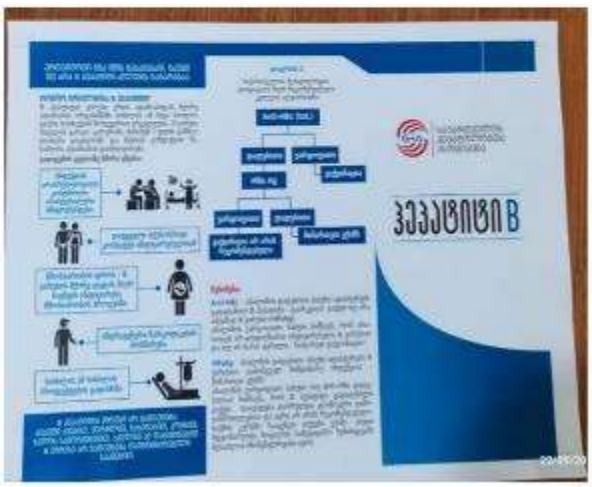
Photo No. 6

Annex 5.1 Correspondence Regarding Environmental issues

N	DATE	REF. NO.	SUBJECT
1	18 July 2022	5015001/2/2794	Regarding Contractor's N15-N16 EMR
2	21 July 2022	5015001/2/2797	Regarding rehabilitation of sand-gravel quarry
3	25 July 2022	5015001/2/2802	Environmental issues
4	16 August 2022	5015001/2/2817	Regarding testing of environmental parameters
5	18 August 2022	5015001/2/2819	Regarding prevention environmental pollution with plastic waste
6	18 August 2022	5015001/2/2820	Fire hazard reminder
7	19 August 2022	5015001/2/2823	Regarding operation of the project highway
8	7 September 2022	5015001/2/2838	Regarding submission of tree planting design
9	19 October 2022	5015001/2/2859	Regarding environmental issues
10	29 November 2022	5015001/2/2901	Reminder about plastic waste
11	5 December 2022	5015001/2/2907	Reminder about testing of environmental parameters
12	16 December 2022	5015001/2/2916	Regarding testing air quality in the tunnels
13	19 December 2022	5015001/2/2919	Ecologic monitoring

Annex 6. Training

Attendees of AIDS and Hepatitis 22.09.2022.



Attendees of AIDS and Hepatitis: 28.11.2022.

HSE Training

(Construction site) 19.11.2022

(Construction site) 22.11.2022

Annex 7. Agreement for dump site

GEORGIA
AUTONOMOUS REPUBLIC OF ADJARA
MINISTRY OF FINANCE AND ECONOMY

4572-01-01-10-2-201811191433

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

უცხოური საწარმოს სს „ჯოლდაი იოლ იაპი სანაიი ვე თიჯარეთ"-ის
საქართველოს ფილიალის დირექტორს აიდინ ფოლატს
იურ. მის.: ქ. თბილისი, ლვოვის N39
ფაქტ. მის.: ქ. ბათუმი, ინასარიძის ქ. N97
ს/ნ 404903707
საკ. პირ. ტელ: 595 61 56 56

ბატონო აიდინ,

თქვენი 2018 წლის 01 ოქტომბრის NTMO/18/0092 წერილის პასუხად დამატებით გაცნობებთ, რომ აჭარის ავტონომიური რესპუბლიკის ფინანსთა და ეკონომიკის სამინისტრო არ არის წინააღმდეგი, უცხოური საწარმოს სს „ჯოლდაი იოლ იაპი სანაიი ვე თიჯარეთ"-ის საქართველოს ფილიალმა მოქმედი კანონმდებლობის შესაბამისად, ქ. ბათუმში, აეროპორტისა და კახაბრის დასახლებაში მდებარე აჭარის ავტონომიური რესპუბლიკის საკუთრებაში არსებულ 2 ერთეულ არასასოფლო სამეურნეო დანიშნულების მიწის ნაკვეთზე (ს/კ 05.32.06.026 და ს/კ 05.32.05.072) განახორციელოს წერილში ხსენებული მიწის ნაყარის დაყრა, იმ პირობით თუ აჭარის ავტონომიურ რესპუბლიკას არ წარმოეშობა რაიმე სახის ვალდებულება და სამუშაოების დასრულების შემდეგ დაყრილი მიწის ნაკვეთი იქნება მოსწორებული.

პატივისცემით,

ჯაბა ფუტკარაძე

მინისტრი