

SEMI-ANNUAL ENVIRONMENTAL MONITORING REPORT

Project Number: 43405-027

Reporting Period: January-June 2020

**GEORGIA: URBAN SERVICES IMPROVEMENT INVESTMENT PROGRAM
(TRANCHE 5)
(FINANCED BY THE ASIAN DEVELOPMENT BANK)**

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For: The Ministry of Regional Development and Infrastructure of Georgia and the Asian Development Bank

Endorsed by: Maka Goderdzishvili, Head, Department Environmental Protection and Permits

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ABBREVIATIONS

ADB	Asian Development Bank
DC	Design Consultant
DEPP	Department of Environmental protection and Permit
PMD	Projects Management Department
EA	Executing Agency
EARF	Environmental Assessment and Review Framework
EHS	Environmental Health & Safety
EIA	Environmental Impact Assessment
EIP	Environmental Impact Permit
EMP/ SSEMP	Environmental Management Plan/ Site-Specific Environmental Management Plan
ES/ EMS	Environmental Specialist/ Environmental Monitoring Specialist
GoG	Government of Georgia
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
IPMO	Investment Program Management Office
USIIP	Urban Services Improvement Investment Program
IA	Implementing Agency
IEE	Initial Environmental Examination
MFF	Multi-tranche Financing Facility
MoEPA	Ministry of Environment Protection and Agriculture
MoRDI	Ministry of Regional Development & Infrastructure
NEA	National Environmental Agency
SC	Supervision Consultant
UWSCG	United Water Supply Company of Georgia
WSS	Water Supply & Sanitation

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I. INTRODUCTION

1.1 Preamble

1. This report represents the Semi - Annual Environmental Monitoring Review (SAEMR) for the Urban Services Improvement Investment Program, Tranche 5.
2. This report is the 6th Environmental Monitoring Review (EMR) of Tranche 5 under USIIP.

1.2 Headline Information

3. During the reporting period no changes took place to the sub-projects design and accordingly nothing has been updated or prepared.

II. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

4. The Urban Services Improvement Investment Program was developed as the Government's response to the lack of adequate and/or safe water supply, sewerage and sanitation in urban areas of Georgia. This is intended to optimize social and economic development in selected urban areas through improved urban water and sanitation services, and is financed by the ADB through its Multi-tranche Financing Facility. The Ministry of Regional Development and Infrastructure is the Executing Agency and the United Water Supply Company of Georgia, LLC is the Implementing Agency of the Investment Program. UWSCG is a 100% state-owned company.
5. The Investment Program will improve infrastructure through the development, design and implementation of a series of subprojects, each providing improvements in a particular sector (water supply and/or sewerage) in one town. Subprojects will rehabilitate existing infrastructure and/or create new and expanded infrastructure to meet the present and future demand. Water supply improvements will include source augmentation and head works, pumping systems, treatment facilities, transmission and distribution network; and, sewerage improvement works will include sewer network, pumping stations, main collectors and waste water treatment plants.
6. Tranche 5 of the Investment Program includes:
 - Construction of Sewage System in Zugdidi (ZUG-02);
 - Construction of Wastewater Treatment Plants in Zugdidi (A) – REG-03a
 - Construction of Waste Water treatment Plant in Mestia (B) - REG-03b

The following projects are financed under Tranche 5:

7. **Construction of Sewage System in Zugdidi (ZUG-02).** The Zugdidi wastewater project envisages the rehabilitation and extension of the sewer network with gravity sewers and pressure lines and the construction of wastewater pumping stations. The project measures for the sewer network comprise the laying of 160 km new gravity pipes (DN 100 to DN 800) and 9.7 km new pressure pipes (OD 110 and OD 630). There will be 24 new wastewater pumping stations. The new network will convey the wastewater to a new wastewater treatment plant, which will be constructed under Reg-03 – Zugdidi (A) WWTP project.
8. The contract No P43405-ICB-Zug-02 was signed on February 1, 2017 with Ludwig Pfeiffer Hoch-und Tiefbau GmbH & Co.KG, the date of completion of the contract is July 2020.
9. **Construction of Wastewater Treatment Plant in Zugdidi (REG-03a).** The project comprises of the construction of new Wastewater Treatment Plant with the capacity of 22,000 m³/day.
10. The contract No UWSCG-USIIP-ICB-REG-03a was signed on February 1, 2017 with “JV “Pfeiffer - EMIT” comprised by “Ludwig Pfeifer Hoch – and Tiefbau GmbH7Co. KG (Germany)” and “EMIT |Group – Ercole Marelli Impianti Tecnologici S.r.l. (Italy)”, Original completion date: 15 July 2020, no Contract extension applied for the moment.

- 11. Construction of Wastewater Treatment Plant in Mestia (REG-03b).** The project comprises of the construction of new Wastewater Treatment Plant with the capacity of 3,200 m³/day.
- 12.** The contract No UWSCG-ICB-MES-03-2019 was signed on 5 November 2019 with “JV of Toshiba Water Solutions Pvt.Ltd and IN-SI” LLC (India/Georgia). Contract completion date is April 2021.

2.2 Project Contracts and Management

- 13.** The following agencies are involved in implementing the Investment program: Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for management, coordination and execution of all activities funded under the loan. MoRDI has overall responsibility for compliance with loan covenants.
- 14.** Ministry of Environmental Protection and Agriculture of Georgia (MEPA). MEPA has the overall responsibility for protection of environment in Georgia. The Department of Permits of MEPA is responsible for reviewing EIAs and for issuance of the Environmental Permits. MEPA is the main state body pursuing state policy in the sphere of environment. Their functions for regulating economic or development activities with regard to environmental protection include:
 - Issuing permits for project development (Environmental Decision)
 - Setting emission limits and issuing surface water intake and discharge consents
 - Responding to incidents and complaint
- 15.** United Water Supply Company of Georgia (UWSCG) is the implementing agency (IA), which is responsible for administration, implementation (design, construction and operation) and all day-to-day activities under the loan. The Investment Program Management Office (IPMO) under UWSCG is Project Management Department, the Head of Department is Ms. Ana Onashvili. Environmental issues are followed by the Department of Environmental Protection and Permits of UWSCG. The head of the department is Ms. Maka Goderdzishvili. Ms. Ketevan Chomakhidze is the Environmental Specialist of USIIP under the Department of Environmental Protection and Permits.
- 16.** UWSCG as responsible IA for the project recruited a Supervision Consultant (SC) – Posch&Partners Consulting Engineers under T5. The national and international team of consultants assists UWSCG in the supervision of the construction of sub-projects under the USIIP. The SC also provides capacity building training to contractor staff in the management and operation and maintenance of the sub-projects. The SC assists UWSCG in ensuring that the sub-projects are implemented according to the specified standards. SC assignment also includes the supervising of the implementation of the environmental management plans.
- 17.** All mitigation measures during construction are implemented respectively by the contractor companies: Ludwig Pfeiffer (ZUG-02) and Pfeiffer - EMIT (REG-03/a). No construction activities implemented under MES-03 sub-project during the reporting period. Each contractor company have Environmental and safety officers responsible for HSE issues during construction process. Mr. Nikoloz Neparidze is simultaneously responsible for EH&S issues under ZUG-02 sub-project and only for Environmental Issues under ZUG-03/a sub-project. Mr. Irakli Abuladze is responsible for H&S issues under Reg-03/a sub-project.

- 18.** Ms. Tiko Zhizhiashvili is Environmental specialist of Supervision Consultant Posch. Construction companies are monitored by Ms. Tiko Zhizhiashvili and Environmental Specialist of UWSCG/USIIP Ms. Ketevan Chomakhidze. Environmental Specialists of SC and UWSCG/USIIP conducted routine observations and surveys of project sites, issues non-compliance notes. ES of Posch prepares quarterly environmental reports and submits to UWSCG.
- 19.** The Contractor, prior to the onset of the construction, is obliged to conduct a number of studies and develop environmental plans, including "Site Environment Management Plan" (SEMP). Such plans can be further subdivided into Topic Specific or Site Specific EMP's. The number of such plans will depend upon the type of project, complexity and sensitivity of the receiving environment.
- 20.** Topic Specific EMPs are developed on a topic by topic basis. For example:
- Waste Management Plans;
 - Traffic Management Plans;
 - Protected Species Management Plans;
 - Water Management Plans.
- 21.** These plans are detailed and set out how the project will address potential issues identified in the impact assessment process and ensure that specific mitigation and monitoring measures are fully implemented. A topic specific environmental management plan will cover all of the project.
- 22.** The environmental specialist of UWSCG/USIIP assists and advise the Department of Environmental Protection and Permits of UWSCG for implementation of USIIP in compliance with the ADB Safeguard Policy Statement 2009 and National Legislation, and oversee the work of DCs and SCs in safeguards compliance. ES supports DEPP in EARF implementation, in particular, reviewing IEE/EIA Reports, overseeing implementation of EMPs, Reviewing and approving SEMPs and carrying out training and capacity-building activities in cooperation with Supervision Company. The ES prepares Semi-annual and annual environmental monitoring reports and submits to ADB.
- 23.** Department of Environmental Protection and Permits of UWSCG is responsible for the implementation of mitigation and monitoring measures during construction and operation of sub-projects under USIIP. Currently DEPP is staffed with a Head of Department and 4 specialists, those are responsible for environmental safeguard and construction permission issues.
- 24.** ADB is the donor financing the Investment Program. Environmental management organization is shown in Figure 1 and Figure 2.

Figure 1: Structure Diagram of the Environmental Management Unit of UWSCG

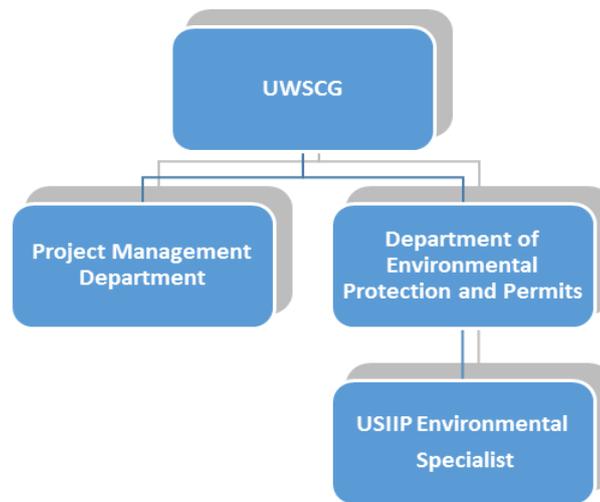
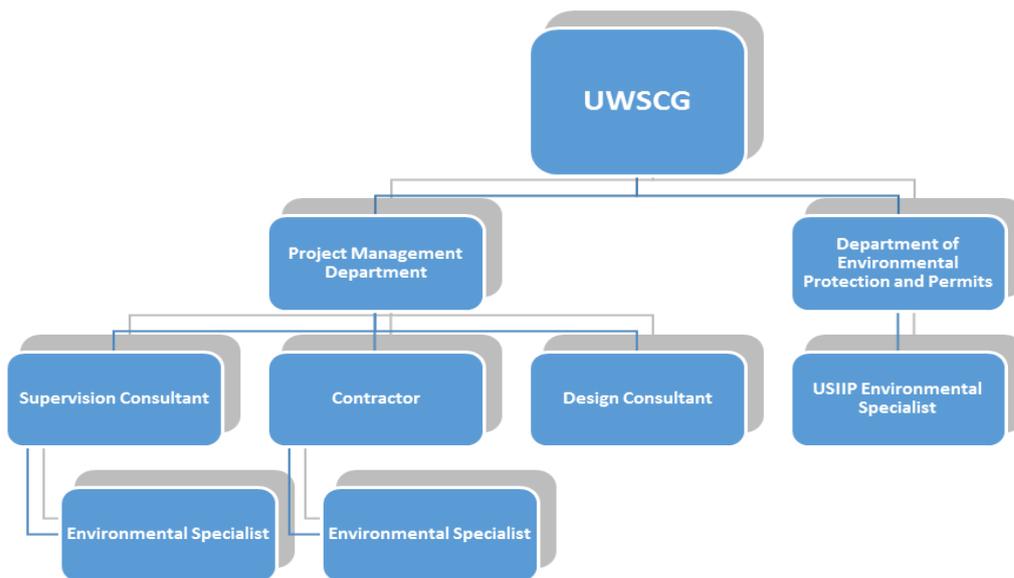


Figure 2: Structure Diagram of the Agencies Involved in Investment Program Implementation



25. Main organizations involved in the USIIP/T5 and related to environmental safeguard are presented in the table 1 below:

Table 1: List of Main Organizations under USIIP/T5

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
Lender	Asian Development Bank	Head Office, Environmental	Nurlan Djenchuraev

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
		Specialist, Portfolio, Results, Safeguards and Gender Unit (PSG), CWRD.	E-mail: ndjenchuraev@adb.org
		Associate Safeguards Officer Georgia Resident Mission Asian Development Bank	Nino Nadashvili Tel: +995 595 070442 nnadashvili@adb.org
		ADB RETA International-Regional Environmental Consultant	Keti Dgebuadze Tel: +995 577232937 ketdgeb@yahoo.com
Borrower	UWSCG	UWSCG, Department of Environmental Protection and Permits, Head	Ms. Maka Goderdzishvili Tel: +995 599 229925 E-mail: m.goderdzishvili@water.gov.ge
		UWSCG/IPMO Department of Projects Management, Head	Ms. Ana Onashvili Tel: +995 599 692090 E-mail: ana.onashvili@water.gov.ge
Borrower	UWSCG/USIIP/T5	Environmental Specialist	Ms. Ketevan Chomakhidze Tel: +995 577 380309 E-mail: Chomakhidzek@yahoo.com
Supervision Consultant	Posch&Partners Consulting Engineers	Environmental Specialist:	Mr. Tinatin ZhiZhiashvili Tel: +995 577 380113 E-mail: tikozhizhiashvili@yahoo.com
Contractor ZUG-02	Ludwig Pfeiffer Hoch-und Tiefbau GmbH & Co.KG	Environmental H&S Specialist	Mr. Nikoloz Neparidze Tel: +995 599 346821 E-mail: nikoloz.neparidze@ludwigpfeiffer.com

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
Contractor REG-03a	JV "Pfeiffer - EMIT" comprised by "Ludwig Pfeifer Hoch – and Tiefbau GmbH Co. KG (Germany)" and "EMIT Group – Ercole Marelli Impianti Tecnologici S.r.l. (Italy)	Environmental H&S Specialist H&S Specialist	Mr. Nikoloz Neparidze Tel: +995 599 346821 E-mail: nikoloz.neparidze@ludwigpfeiffer.com Mr. Irakli Abuladze Tel: +995 568 012858 E-mail: irakli.abuladze.1974@gmail.com

2.3 Project Activities During Current Reporting Period

26. During the reporting period, no construction work was carried out as part of the REG-03b sub-project. The contractor should develop the final design project for WWTP Mestia during the next reporting period (July-December 2020) and submit to SC and UWSCG for their approval.

27. Progress of construction activities under ZUG-02 sub-project during the reporting period is presented in the Table 2 below.

Table 2: progress of construction activities ZUG-02

Site	Construction of New Sewers
ZUG 02	Earthworks
Works Undertaken during January-June 2020	97%
Site	Pipeline and Manholes Installation
Works Undertaken during January-June 2020	85% (pipes) 99% (manholes)
	Reinstatement
Works Undertaken during January-June 2020	97%

28. Progress of construction activities under REG-03/a sub-project during the reporting period is presented in the Table 3 below.

Table 3: Construction progress REG-03a sub-project

Site	Works	%
	REG-03/a - STP Zugdidi	
	Works undertaken during January - Jun 2020.	
	Works performed including January 2020.	
	Plant and Mandatory Spare Parts Supplied from Abroad	73.36 %
	Design Services	100 %
	Installation and Other Services	86.32 %
	Works performed including February 2020.	
	Plant and Mandatory Spare Parts Supplied from Abroad	78.42 %
	Design Services	100 %
	Installation and Other Services	87.56 %
	Works performed including March 2020.	
	Plant and Mandatory Spare Parts Supplied from Abroad	85.1 %
	Design Services	100 %
	Installation and Other Services	86.67 %
	Works performed including April 2020.	
	Plant and Mandatory Spare Parts Supplied from Abroad	90.28 %
	Design Services	100 %
	Installation and Other Services	90.51 %
	Works performed including May 2020.	
	Plant and Mandatory Spare Parts Supplied from Abroad	90.28 %
	Design Services	100 %
	Installation and Other Services	92.73 %
	Works performed including Jun 2020.	
	Plant and Mandatory Spare Parts Supplied from Abroad	93.47 %
	Design Services	100 %
	Installation and Other Services	93.76 %

2.4 Description of Any Changes to Project Design

29. Since REG-03/b sub-project: Construction of WWTP in Mestia is Design and Built contract, contractor should develop the final design project for Mestia WWTP and submit to UWSCG and ADB for their approval.

2.5 Description of Any Changes to Agreed Construction methods

N/A

III. ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

30. Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of USIIP on a regular basis, until early March 2020 before restrictions were imposed by the Government of Georgia on site visits in connection with the outbreak of the new Coronavirus - COVID-19 and then resumed in May 2020.
31. The Government of Georgia and its Ministry of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia, issued the General Guidelines Related to Infection (COVID-19) Caused by Novel Coronavirus (SARS-CoV-2) which applies to all sectors of economic activity.
32. The General Guideline for COVID-19 was also developed by the Government of Georgia specifically for the construction sector (Please see Annex F of this report).
33. Based on the above mentioned guidelines the construction staff must not appear in the workplace if they:
 - Left the affected country over the past 14 days;
 - Were in close contact with infected person/persons for the past 14 days (they must be self- isolated/quarantined as per the rule);
 - Have symptoms of respiratory infection (coughing, temperature, sneezing, difficulty in breathing, general weakness etc.);
 - Are among the ones who have high risk of getting infected with COVID-19 or serious complications: over 70 years of age, people suffering from chronicle diseases (cardio-vascular diseases, diabetes, bronchial asthma and other respiratory diseases).
34. Additional measures were carried out by Supervision Company Posch based on the requirements of the UWSCG and Emergency Response Plan of COVID 19 was developed for construction activities carried out under USIIP-T5 (please see Annex E).
35. The monitoring activities included:
 - The monitoring of compliance of construction activities under Zug-02 sub-project sites to the IEE/EMP requirements;
 - The monitoring of mobilization activities under Reg-03/a sub-project sites to the overall project EMP/SSEMP requirements.
36. Environmental Monitoring Specialist hired under the ZUG-02 and Reg-03/a sub-projects Mr.Nikoloz Meparidze conducted the day-to-day monitoring of the construction sites, filled the weekly checklist forms developed the monthly monitoring reports and submitted to SC/Posch.
37. Environmental Monitoring Specialist, Ms.Tinatin Zhizhiashvili developed quarterly monitoring reports for UWSCG/USIIP based on the monthly reports submitted by Contractor, and on regular site inspections.
38. ES of USIIP performed monitoring of contractor's performance with the approved EMPs and SSEMPs, environmental standards and other environmental commitments of the

contractor. ES developed Semi-annual and annual environmental monitoring reports and submitted to ADB based on the quarterly reports prepared by SC and monitoring results.

39. The construction activities affecting the environment during the reporting period are as follows:

- Excavation works
- Removal of Surplus Soil
- Backfilling of Trenches
- Reinstatement Activities

40. In accordance with the IEE, and the accompanying Environmental Monitoring Plan (EMP), the Contractor is required to undertake parametric measurements and observations on air quality, noise and socio-cultural resources. Accordingly, the monitoring guidelines were set as shown in the Table 4 below.

Table 4: Parametric Measurement Guidelines

Parameters	Frequency & Location	Remarks
Zug-02		
Air Quality	Air Quality Every 6 months Networks,	Watering site during excavation works to avoid dust spreading Conduct measurements of Dusts Mg/m ³ ; CO Mg/m ³ ; NO ₂ Mg/m ³ ; SO ₂ Mg/m ³
Noise	Noise, Every 6 months Sewerage Networks,	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8 am – 6 pm
Incorrect surplus/waste soil management	Monthly during the site Inspection and audit	Utilize surplus/waste soil for beneficial purposes such as in construction or to raise the ground-level of low lying sites. Dispose extra waste soil at special disposal place identified by Municipality
Cultural heritage Disturbance to cultural resources	Every time along the alignment Archaeological & Cultural Properties	Contractor shall put in place a protocol for conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved. Calling in the state archaeological authority if

Parameters	Frequency & Location	Remarks
		a find is suspected, and taking any action they require to ensure its removal or protection.
REG-03/a		
Air Quality	Air Quality Every 6 months Zugdidi WWTP construction site	Watering site during excavation works to avoid dust spreading Conduct measurements of Dusts Mg/m ³ ; CO Mg/m ³ ; NO ₂ Mg/m ³ ; SO ₂ Mg/m ³
Noise	Noise, Every 6 months Zugdidi WWTP construction site	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8 am – 6 pm
Incorrect surplus/waste soil management	Monthly during the site Inspection and audit	Utilize surplus/waste soil for beneficial purposes such as in construction or to raise the ground-level of low lying sites. Dispose extra waste soil at special disposal place identified by Municipality
Cultural heritage Disturbance to cultural resources	Every time along the alignment Archaeological & Cultural Properties	Contractor shall put in place a protocol for conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved. Calling in the state archaeological authority if a find is suspected, and taking any action they require to ensure its removal or protection.

3.2 Site Audit

41. Regular inspection and monitoring of construction sites under ZUG-02 and REG-03/a sub-projects were conducted by ESs of USIIP and Posch. The schedule of Joint

inspection and summary of audits carried out under the sub-projects are provided in the Table 5 below.

Table 5. Summary of site audits

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	
Continuously during reporting period (January-June 2020)	Ludwig Pfeiffer Hoch- und Tiefbau GmbH & Co.KG ZUG-02	Environmental, H&S Specialist of Contractor Mr. Nikoloz Nepridze	Day to day monitoring of sites Compliance with Environmental and HES requirements	1. Poor housekeeping 2. Safety issues on construction sites	Develop Weekly Checklists Prepare Monthly Monitoring Reports and send to Supervision Consultant
		Environmental, H&S Specialist of Supervision Consultant Ms. Tinatin Zhizhiashvili	Monthly monitoring of sites		Quarterly Monitoring Reports prepared and Non-Conformance Notice Issued (example is provided in Annex c)
28 February 2020		Environmental Specialist of USIIP Ms. Ketevan Chomakhidze	Monthly monitoring of sites	Oil-based canisters should be removed from the construction site, which are located next to the public yards, streets, open spaces. If these canisters can be used a second time, they should be placed in a specially sealed, closed building. If not used for a second time, be transferred to the company with the appropriate permission. Submit relevant photo documentation; Technical inspection of equipment before entering the construction site should be done to	Non-Conformance Notice Issued (example is provided in Annex c)
Environmental Specialist of SC Ms. Tiko Zhizhiashvili					

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	
				<p>avoid accidental spills; Remove and manage oil-contaminated soil, submit appropriate photo documentation; Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents (workers damage); Providing wooden walkways/planks across trenches for pedestrians and metal sheets where vehicle access is required; Surplus waste soil should be removed and disposed in a proper place; All transmission line construction segments should be cleaned/well organized on regular bases; Construction activities information signs should be installed at each construction segment; Provide adequate lighting to avoid accidents.</p>	
18 June 2020		<p>Environmental Specialist of contractor Mr. Nikoloz Neparidze Environmental</p>	<p>Monthly Monitoring of sites for Compliance with EH&S requirements</p>	<p>Safety/warning signs/tapes and trench side barriers around of deep open trenches should be installed to avoid accident.</p>	<p>¹Verbal instruction was given to contractor to improve the situation and send improved photos of sites</p>

¹ SC was requested to prepared non-compliance report and send to CC to avoid H&S incidents.

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	
		Specialist of SC Ms. Tiko Zhizhiashvili		<p>Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents (workersdamage).</p> <p>Providing wooden walkways/planks across trenches for pedestrians and metal sheets where vehicle access is required.</p> <p>Surplus waste soil should be removed and disposed in a proper place.</p> <p>Informing all residents and businesses about the nature and duration of any work well in advance so that they can make necessary preparations if needed.</p>	to SC.
Continuously during reporting period (January-June 2020)	JV "Pfeiffer - EMIT" REG-03/a	Environmental, H&S Specialist of Contractor Mr. Nikoloz Neparidze	Day to day monitoring of sites Compliance with Environmental and HES requirements	Workers always should use complete PPE	Monthly Monitoring Reports
27 February 2020		Environmental Specialist of	Monthly Monitoring report	Bins for solid household waste are disposed on	Verbal instruction is given to

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	
		USIIP Ms. Ketevan Chomakhidze Environmental Specialist of SC Ms. Tiko Zhizhiashvili		<p>site. Where necessary, bins for such waste shall be compactly disposed on several places. Place a sticker on it. Submit photo documentation.</p> <p>Place the bin for hazardous waste on a roofed site and make appropriate marking. Submit photo documentation.</p> <p>Hazardous and household waste at the entrance of the facility is mixed and disposed on a unsurfaced car park area.</p> <p>Hazardous waste should be disposed in its intended bin and carried out by a permit company. Submit proof of removal process and photo documentation.</p> <p>The parking area is contaminated with oils and other lubricants. Also, in some places the soil is contaminated with oils.</p> <p>According to the</p>	<p>contractor to immediately improve the situation and send improved photos of site.</p> <p>Non-compliance notice was issued and submitted to contractor (please see ANNEX C)</p>

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	
				<p>legislation, remediation of contaminated soil and removal and storage of contaminated sand should be done separately.</p> <p>Removing process should be done by a permit company. Submit a certificate of removal, photo documentation for remediation and cleaned areas.</p>	
19 June 2020		<p>Environmental, H&S Specialist of Contractor</p> <p>Mr. Nikoloz Neparidze</p> <p>Environmental Specialist of SC</p> <p>Ms. Tiko Zhizhiashvili</p>	<p>Monthly Monitoring of sites for Compliance with EH&S requirements</p>	<p>Waste should be timely removed from the construction site and disposed properly</p> <p>Site internally should be arranged properly and cleaned regularly</p>	<p>Verbal instruction is given to contractor to immediately improve the situation and send improved photos of site.</p>

3.3 Issues Tracking (Based on Non-Conformance Notices)

42. Non-Conformances have been observed during the site visits under ZUG-02 and REG-03/a sub-projects. The contractors were always informed on the detected non-conformances and were demanded to improve on the deadline set and send photos of improvements. Environmental team of Posch and UWSCG/USIIP monitored the improvements during the next monitoring visits. All Non-conformance Notices issued during the reporting period is presented in ANNEX C of this Semi-Annual EMR.
43. A summary of the identified environmental issues for January-June 2020 under ZUG-02 and REG-03a sub-projects are presented in Table 6 and 7 below.

Table 6: Summary of Issues Tracking Activity for Current Period Zug-02

Total Number of Issues for Project	15
Issues Opened This Reporting Period	5
Issues Closed This Reporting Period	10
Percentage Closed	67%

Table 7: Summary of Issues Tracking Activity for Current Period REG-03/a

Total Number of Issues for Project	9
Issues Opened This Reporting Period	2
Issues Closed This Reporting Period	7
Percentage Closed	78%

3.4 Trends

44. To identify trends in environmental issues information from previous Semi-Annual EMR (July-December 2019) is used. The summary of the issues is provided in the Table 8 below.

Table 8: Summary of identified trends in environmental issues

Semi-Annual EMR No	Total No of Issues	% issues Closed	% issues closed late
July-December 2019	26	78%	22%
January-June 2020	24	73%	27%

45. All major Non-Conformances under USIIP/T5 during the reporting period are provided in an Annex C of this report.

3.4 Unanticipated Environmental Impacts or Risks

N/A

IV. RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Monitoring Conducted during Current Period

46. During the reporting period Environmental measurements of Noise level and ambient air Quality were carried out by contractor under Zug-02 and REG-03/a sub-projects.
47. Noise and air pollution standards defined by IFC/WHO 1999, are presented in the Table 9 and 10 below.

Table 9: Noise Level Guidelines

Noise	dBA		dBA	
	National Regulations		WHO	
Receptor	Daytime 07:00 - 22:00	Nighttime 22:00 - 07:00	Daytime 07:00- 22:00	Nighttime 22:00- 07:00
Residential; institutional; educational	55	45	55	45
Industrial; commercial	70	70	70	70

- 5 Air pollution standards by IFC/WHO 1999, are presented in the Table 10 below.

Table 10: Air pollution Guidelines

Contaminants	IFC/WHO Guideline Value (Limit mg/m ³)
1	2
Inorganic dust	(*IFC does not have a standard for "inorganic dust". Instead IFC applies standards for PM2.5 and PM10). PM10 – 0,02/1 Year 0,05/24 Hour PM2,5-0,01/1 Year 0,025/24 Hour
Carbonic monoxide	n/a
Nitrogen dioxide (NO ₂)	0,2/ 1 Hour 0,04/1 Year
Aldehyde	n/a

48. Environmental quality measurements of noise level and Dust under Zug-02 and REG-03/a sub-projects were conducted by the National Environmental Agency of the Ministry of Environment

Protection and Agriculture of Georgia in the nearest sensitive receptors of ²Zug-02 and REG-03/a sub-project in 29 June 2020 (See Table 11 below and Annex A). The next monitoring measurements will be conducted in September 2020 and results will be reflected in the next July-December 2020 EMR.

49. According to data received in June 2020 noise level doesn't exceeds the standards of the National Regulations and World Health Organization (IFC/WHO),1999 in Zugdidi under ZUG-02 and REG-03a sub-projects and therefore no additional mitigation measures are required. IFC/WHO standards for Noise and Air pollution are presented in Tables 9 and 10 above. It should be noted also that measurements carried out at construction sites, were temporary and conducted during the daytime from 13:00 pm to 16:00 pm and no complaints were received from the local population about the noise during the reporting period.

Table 11: Environmental Quality Monitoring Measurement of Noise and Air Quality, REG-03/a, ZUG-02

N	Place of measurement	Coordinates	Results				
			Dusts Mg/m3	CO Mg/m3	NO2 Mg/m3	SO2 Mg/m3	Noise dBA (MAX) (1-hour)
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	55 Residential; Institutional; Educational 70 Industrial; commercial
1	Zugdidi 0734030 4708169		0.051	0.37	0.005	<0.1	51.4

4.2 Trends

50. All mitigation measures identified within the ZUG-02 and REG-03/a sub-project are effective and no additional measures are required.

4.3 Summary of Monitoring outcomes

51. Noise level and Dust during the construction period under ZUG-02 and REG-03/a sub-projects doesn't exceeds the existing standards of IFC/WHO and therefore no additional mitigations are required. The parameters of the ambient air quality is within the existing norms as well. As it was already mentioned above contractor is strictly requested to carried out separate Environmental Quality measurements for both sub-project – REG-03/a and ZUG-02.

² Since there is one environmental specialist working in both ZUG-02 and REG-03/a subprojects, Mr. Nikoiloz Meparidze and the sensitive receptors of the construction site of both subprojects may coincide in some places (for example, the hospital area near the WWTP site), during the reporting period, only one environmental quality measurement was carried out for both subprojects.

4.4 Material resources Utilization

4.4.1 Current Period

- 52.** The following information was provided by contractor under REG-03/a sub-project about the material resources utilization during the reporting period – January-June 2020, within the framework of the REG-03/a sub-project.
- 53.** The consumption of technical water is averages 3-4 tons per day.
- 54.** Electricity consumption for 3 months is 5631.7 kV. The numbers are estimated and depend on the weather, the intensity of works, in case there is no electricity supply and the light is off, the generator is very common.
- 55.** Drinking water is provided by the private company “Sno” an amount of 350-400 liters per week, depending on the weather condition and intensity of work.
- 56.** The contractor did not provide any information on the use of material resources in the framework of the ZUG-02 sub-project, since the main construction work is carried out on the sewage network part of the sub-project throughout the City of Zugdidi.

4.4.2 Cumulative Resources Utilization

N/A

4.5 Waste Management

4.5.1 Current Period

- 57.** At the both construction sites there are mainly produced household, construction (inert, surplus soil) and hazardous waste. Despite the request from UWSCG to contractors and SC to provide quantity of produced waste during the construction in accordance with the requirements of the new Semi-annual EMR format, the contractor did not provide any information on this issue.
- 58.** Mainly household waste is collected in municipal containers which are served by the local cleaning service. There is need of routine organization and cleaning of sites. Contractors always have separate containers for household and hazardous waste with proper labelling at the construction site.
- 59.** In most cases waste/surplus soil is removed from the construction site for further use in agreement with municipality or it stays at the construction site for its future use.
- 60.** The construction waste that is allocated at the construction site is removed for its final disposal that is managed by formal agreement with local municipality or Ltd “Solid Waste Management Company”.
- 61.** Hazardous waste (lubricant residues and etc) were stored according to all the safety norms after the strong instruction given by SC and UWSCG. In the case of formation such kind of waste, contractor has to write to the management of the municipality or the company who is licensed to recycle/decontaminate such kind of waste. Also contractors have special container with proper labelling at the construction site.

4.5.2 Cumulative Waste Generation

N/A

4.6 Health and Safety

4.6.1 Community Health and Safety

62. No community incidents have been reported to SC during reporting period under ZUG-02 and Reg-03a sub-projects.
63. Precaution measures carried out by SC and UWSCG for COVID-19 is presented in para 29-33 above.

4.6.2 Worker Safety and Health

ZUG-02, REG-03a

64. Environmental H&S Manager of ZUG-02 and REG-03a sub-projects Mr. Nikoloz Neparidze was performing every day monitoring, induction and supervision of ongoing works according to EH&S standards and by requirements of ADB/UWSCG/POSCH and providing relevant reports on a regular basis taking into account any recommendations given by SC/UWSCG engineers.
65. Health & safety and environment issues which were covered during the reporting period are as follows:
- PPE;
 - Housekeeping;
 - Reinforcement;
 - Ground works;
 - Manual works;
 - Removal waste;
 - Bending rebar, Cutting;
 - Installation and dismantle formwork
 - Induction all visitors
 - Dust and Noise Measurements
 - Upgrade Safety Hard and Warning Barricade
66. Contractor under ZUG-02 sub-project was working on compilation of statistics information (incidents, near misses, trainings) during reporting period. No workers incidents have been reported during reporting period under ZUG-02 sub-project.
67. The following Near-Misses were reported by SC under ZUG-02 sub-project, which may be resulted in Workers' Health and Safety problems:
- Workers always should use complete PPE to avoid accidents (workers damage)
68. During the reporting period, within the framework of the REG-03a sub-project, no near-misses forms have been filed. SC and UWSCG / USIIP requested from contractor to adequately fill the near-misses forms and reflect in their monthly monitoring reports.

4.7 Training

- 69.** Routine personnel trainings and toolbox talks happen by the construction companies almost on daily basis under Zug-02 and REG-03/a sub-projects. The recording of such toolbox talks are available at the sites.
- 70.** SC also provides routine instructions and verbal trainings for Construction Company environmental and H&S officers. Statistics of routine toolbox talks will be communicated by the construction companies during next reporting period.

V. FUNCTIONING OF THE SEMP

5.1 SEMP Review

71. SSEMP for Zugdidi WWTP under Reg-03/a sub-project was prepared by Contractor, endorsed by SC and approved by UWSCG in 13 March 2018. SSEMP was reviewed/commented by the RETA Regional Environmental Consultant of ADB under RETA 8663 - Ms. Ketii Dgebuadze.
72. SSEMP for ZUG-02 sub-project was prepared and approved in January 2020 due to the changes to the project design defined under the Variation Order #5: construction of two new sewage pumping stations, construction steel bridge structure across the river Chkhoushia for 200 mm diameter steel casing pipe and construction of 500 mm pipe including steel casing for the western collector river crossing and reinstatement asphalt works, demolition and removal of existing manholes, connection of new pipelines to existing sewer manholes and replacing non-functional manhole covers on old lines. SSEMP was prepared by Contractor, endorsed by SC, approved by UWSCG and reviewed/commented by the RETA Regional Environmental Consultant of ADB under RETA 8663 - Ms. Ketii Dgebuadze
73. Due to COVID-19 circumstances it is necessary to updated SEMP for anti-COVID measures and reflect it within the next Semi-annual EMR (due in Jan 2021).

VI. GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

N/A

6.2 Opportunities for Improvement

N/A

VII. SUMMARY AND RECOMMENDATIONS

7.1 Summary

74. During the reported period construction activities were implemented under ZUG-02 and REG-03/a sub-projects. Contractors have intensified all activities to improve the progress of the works on sites.
75. Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC, Ms.Tiko Zhizhiashvili and UWSCG/USIIP, Ms.Keti Chomakhidze on a regular basis on a regular basis, until early March 2020 before restrictions were imposed by the Government of Georgia on site visits in connection with the outbreak of the new Coronavirus - COVID-19 and then resumed in May 2020.
76. The Government of Georgia and its Ministry of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia, issued the General Guidelines Related to Infection (COVID-19) Caused by Novel Coronavirus (SARS-CoV-2) which applies to all sectors of economic activity.
77. The General Guideline for COVID-19 was also developed by the Government of Georgia specifically for the construction sector.
78. Additional measures were carried out by Supervision Company Posch based on the requirements of the UWSCG and Emergency Response Plan of COVID 19 was developed for construction activities carried out under USIIP-T5.
79. The monitoring activities included monitoring of compliance of construction activities to the IEE/EMP and SEMP requirements under ZUG-02 and REG-03/a sub-projects.
80. Environmental Specialist of USIIP Ms. Kate Chomakhidze performed monitoring of contractor's performance in accordance with the requirements of approved IEE/EMPs, SEMPs, and other environmental commitments of the contractor. USIIP/ES developed Semi-annual monitoring reports and submitted to ADB based on the quarterly reports prepared by SC and results of monitoring of construction sites.

7.2 Recommendations

81. The following activities are recommended for the next reporting period:
82. During the reporting period, from January-June 2020, the T5 of Investment Program was implemented in accordance with the requirements of ADB - SPS 2009 and the National Legislation.
83. Contractors to update SEMPs for anti-COVID measures – Q3 2020.
84. More detailed recommendations for the implementation of T5 during the next reporting period July-December 2020 are provided in the Table 12 below:

Table 12: Recommendations to Address Environmental Issues under ZUG-02 and REG-03/a sub-projects

Recommendations ZUG-02 and REG-03/a sub-projects

Recommendations ZUG-02 and REG-03/a sub-projects	
Recommendations ZUG-02	Implementation status and date
ZUG-02 Network	
<p>Oil-based canisters should be removed from the construction site, which are located next to the public yards, streets, and open spaces.</p> <p>If these canisters can be used a second time, they should be placed in a specially sealed, closed building. If not used for a second time, be transferred to the company with the appropriate permission.</p> <p>Technical inspection of equipment before entering the construction site should be done to avoid accidental spills.</p> <p>Surplus waste soil should be removed and disposed in a proper place</p>	<p>The contractor is given a strong instruction to improve the situation by the mid. of July 2020 and constantly maintain an improved standard.</p>
ZUG-03/a	
<p>Bins for solid household waste are disposed on site. Where necessary, bins for such waste shall be compactly disposed on several places. Place a sticker on it. Place the bin for hazardous waste on a roofed site and make appropriate marking.</p> <p>The parking area is contaminated with oils and other lubricants.</p>	<p>The contractor is given a strong instruction to improve the situation by the mid. July 2020 and constantly maintain an improved standard.</p>

85. Conduct monitoring of Ambient Noise and Air quality under ZUG-02 sub-project at the nearest sensitive receptors in August 2020.

Table 13: Conduct Monitoring of Environmental Quality under Zug-02 sub-project

Parameters	Quarterly measurement
Dust	August 2020
PM _{2.5}	August 2020
PM ₁₀	August 2020
Vibration	August 2020
Carbon monoxide	August 2020

Nitrogen dioxide	August 2020
Noise	August 2020

86. Conduct monitoring of Ambient Noise and Air quality under REG-03a sub-project at the nearest sensitive receptors in August 2020.

Table 13: Conduct Monitoring of Environmental Quality under REG-03a sub-project

Parameters	Quarterly measurement
Dust	August 2020
PM _{2.5}	August 2020
PM ₁₀	August 2020
Vibration	August 2020
Carbon monoxide	August 2020
Nitrogen dioxide	August 2020
Noise	August 2020

ANNEXES

ANNEX A: ENVIRONMENTAL QUALITY MEASUREMENT DATA

REG-03/a, ZUG-02

საქართველოს გარემოს დაცვისა და სოფლის მეურნეობის სამინისტრო
MINISTRY OF ENVIRONMENT PROTECTION AND AGRICULTURE OF GEORGIA

 სსიპ გარემოს ეროვნული სააგენტო
LEPL NATIONAL ENVIRONMENTAL AGENCY

N 12/1-476

29 06 2020

შპს "ლუდვიგ პფაიფერ ჰოხ უნდ ტიფბაუ და კო.კგ-ის წარმომადგენლობა საქართველოში"-ს დირექტორს ქ-ნ ჰელენ სპრინგერს

ქალბატონო ჰელენ,

საქართველოს გარემოს დაცვისა და სოფლის მეურნეობის სამინისტროს ს.ს.ი.პ „გარემოს ეროვნულ სააგენტო“-სა და შპს „ლუდვიგ პფაიფერ ჰოხ უნდ ტიფბაუ და კო.კგ-ის წარმომადგენლობა საქართველოში“-ს შორის 2020 წლის 08 ივნისს გაფორმებული ფასიანი მომსახურების შესახებ ფმ-3/390 ხელშეკრულების თანახმად, გაწვდით ქ. ზუგდიდსა და ქ. ფოთში, თქვენს მიერ მითითებულ ატმოსფერული ჰაერის 2 (ორ) წერტილში - ხმაურის, ნახშირჟანგის, მტკვრის, აზოტის დიოქსიდისა და გოგირდის დიოქსიდის შემცველობის გაზომვის შედეგებს, ქართულ და ინგლისურ ენაზე.

დანართი: 2 გვ.

შპს „ლუდვიგ პფაიფერ ჰიბ უნდ ტიფზაუ და კოკგის წარმომადგენლობა საქართველოში“.

ატმოსფერული ჰაერის დაბინძურების და ხმაურის დონის გაზომვის შედეგები.

ხელშეკრულება ფმ-3/390 პასუხის დანართი

N	გაზომვის ადგილი	კოორდინატები	დამაბინძურებელი ინგრედიენტების კონცენტრაცია მგ/მ ³				ხმაურის ბგერის დონე დბ
			მტვერი	ნახშირბადის მონოქსიდი	აზოტის დიოქსიდი	გოგირდის დიოქსიდი	
1	ქ.ფოთი	0719284 4675743	0.025	0.1	0.002	<0.1	49.1
2	ქ. ზუგდიდი	0734030 4708169	0.051	0.37	0.005	<0.1	51.4
მაქსიმალური ერთჯერადი კონცენტრაცია			0.5	5.0	0.2	0.5	
საქართველოს მთავრობის დადგენილება №398 2017 წლის 15 აგვისტო ქ. თბილისი							55

მთ. სპეციალისტი:

მ.ყენია

ო.ყენია

წამყვანი სპეციალისტი

გ. მორგოშია

გ. მორგოშია

შეთანხმებულია:

დეპარტამენტის უფროსი



მ. არაბიძე

Ltd „Ludwig Pfeiffer Hoch and Tifbauand Co. Representative in Georgia“.

Results of atmospheric air pollution and noise level measurments

attachment

N	location	Measurement coordinates	Concentration of pollutant ingredients mg / m ³				Noise sound level db
			Dust	Carbon monoxide	Nitrogen dioxide	Sulfur dioxide	
1	City Poti	0719284 4675743	0.025	0.1	0.002	<0.1	49.1
2	City Zugdidi	0734030 4708169	0.051	0.37	0.005	<0.1	51.4
Maximum allowable concentration			0.5	5.0	0.2	0.5	
Georgian government decree №398 2017 year 15 August Tbilisi							55

Main Specialist: O. Kenia

Kenia

Lead Specialist: G. Morgoshia

[Signature]

Agreed:

Head of the Department

M. Arabidze



ANNEX B: PROJECT PHOTOS NEW

Photos of REG-03a sub-project – CONSTRUCTION OF THE WWTP IN ZUGDIDI

REG-03/a Biodigester



REG-03/a: Roof of Operation building



REG-03/a: Mechanical instolation of Biological tank



ZUG-02: Pipe Laying in Section 2



ANNEX C: NON-CONFORMANCE NOTICES ZUG-02, 28 February 2020

Non-Compliance Notice

Project: USIIP	<p>Non-Compliance Notice</p> <p>Zugdidi</p>
Contract No: ZUG-02	
Contractor: Ludwig Pfeiffer Hoch und Tiefbau GmbH&Co.KG	
Reference: Zugdidi – Network	
<p>This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented urgently.</p> <p><u>NON-COMPLIANCE</u></p> <p>ZUGDIDI (ZUG-02)</p> <ul style="list-style-type: none"> • Oil-based canisters should be removed from the construction site, which are located next to the public yards, streets, open spaces. If these canisters can be used a second time, they should be placed in a specially sealed, closed building. If not used for a second time, be transferred to the company with the appropriate permission. Submit relevant photo documentation; • Technical inspection of equipment before entering the construction site should be done to avoid accidental spills; • Remove and manage oil-contaminated soil, submit appropriate photo documentation; • Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents (workers damage) ; • Providing wooden walkways/planks across trenches for pedestrians and metal sheets where vehicle access is required ; • Surplus waste soil should be removed and disposed in a proper place ; • All transmission line construction segments should be cleaned/well organized on regular bases ; • Construction activities information signs should be installed at each construction segment • Provide adequate lighting to avoid accidents ; • Informing all residents and businesses about the nature and duration of any work well in advance so that they can make necessary preparations if needed 	





If these conditions have to be remedied within one week by the prime Contractor (Ludwig Pfeiffer Hoch und Tiefbau GmbH&Co.KG).

Date of site visits: 28.02.2020

Tinatin Zhizhiashvili, Environmental Engineer at Posch and Partners GMBH

Non-compliance Notice, REG-03a, 27 February 2020

Non-Compliance Notice

Project: USIIP	Non-Compliance Notice Zugdidi
Contract No: ZUG-03 a	
Contractor: JV Ludwig Pfeiffer - Emit	
Reference : Zugdidi – WWTP	

This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented **urgently**.

NON-COMPLIANCE

ZUGDIDI (REG-03a)

- Bins for solid household waste are disposed on site. Where necessary, bins for such waste shall be compactly disposed on several places. Place a sticker on it. Submit photo documentation;
- Place the bin for hazardous waste on a roofed site and make appropriate marking. Submit photo documentation;
- Hazardous and household waste at the entrance of the facility is mixed and disposed on a unsurfaced car park area. Hazardous waste should be disposed in its intended bin and carried out by a permit company. Submit proof of removal process and photo documentation;
- The parking area is contaminated with oils and other lubricants. Also, in some places the soil is contaminated with oils. According to the legislation, remediation of contaminated soil and removal and storage of contaminated sand should be done separately. Removing process should be done by a permit company. Submit a certificate of removal, photo documentation for remediation and cleaned areas;
- Timely removal of construction materials from the area.

Photos of Zugdidi WWTP





ll these conditions have to be remedied within one week by the prime Contractor (JV Ludwig Pfeiffer - Emit).

Date of site visits: 27.02.2020

Tinatin Zhizhiashvili, Environmental Engineer at Posch and Partners GMBH

ANNEX D: CORRECTICE ACTION PLAN ZUG-02

Correction Action Plan (CAP)

Zugdidi – Construction of the sewerage system

Project: USIIP
Contract No: ZUG-02
Contractor: Ludwig Pfeiffer

Contractor's information on Non-Compliance Notice (dated 28 February 2020)

CAP (12 March 2020)

Non-Compliance	Compliance
Oil-based canisters should be removed from the construction site, which are located next to the public yards, streets, open spaces. If these canisters can be used a second time, they should be placed in a specially sealed, closed building. If not used for a second time, be transferred to the company with the appropriate permission. Submit relevant photo documentation;	All Oil-based canisters were removed from the construction site.
Technical inspection of equipment before entering the construction site should be done to avoid accidental spills;	Technical inspection of all equipment was done.
Remove and manage oil-contaminated soil, submit appropriate photo documentation	Oil-contaminated soil was removed and managed (we use special WIURT absorber)
Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents (workers damage) ;	Walls of the deep trenches (>15m) were strengthened
Providing wooden walkways/planks across trenches for pedestrians and metal sheets where vehicle access is required	Wooden walkways/planks across trenches for pedestrians and metal sheets were provided
Surplus waste soil should be removed and disposed in a proper place	Surplus waste soil was removed and disposed in a proper place
All transmission line construction segments should be cleaned/well organized on regular bases	All transmission line construction segments was cleaned and well organized
Construction activities information signs should be installed at each construction segment	Construction activities signs were installed at each construction segment
Provide adequate lighting to avoid accidents	Adequate lighting was provided
Informing all residents and businesses about the nature and duration of any work well in advance so that they can make necessary preparations if needed	All residents were informed about the construction activities

Correction Action Plan (CAP)

Photos



Walls of the deep trenches



Manage oil-contaminated soil

Correction Action Plan (CAP)



Construction activities signs



Correction Action Plan (CAP)



Corrective Action Plan REG-03a

Correction Action Plan (CAP)

Zugdidi – WWTP

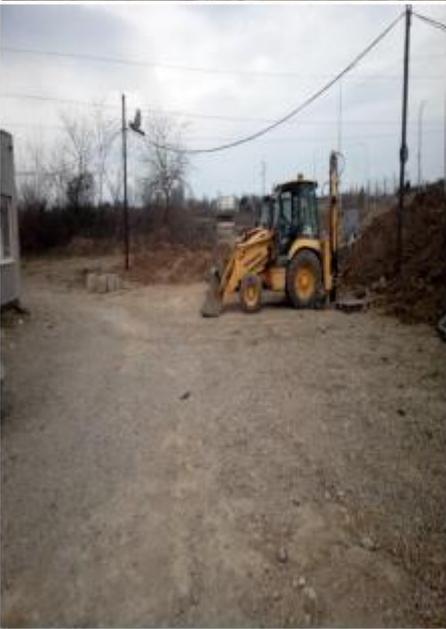
Project: USIIP
Contract No: ZUG-03
Contractor: Ludwig Pfeiffer

Contractor’s information on Non-Compliance Notice (dated 27 February 2020)

CAP (10 March 2020)

Non-Compliance	Compliance
Bins for solid household waste are disposed on site. Where necessary, bins for such waste shall be compactly disposed on several places. Place a sticker on it. Submit photo documentation;	Bins for solid household waste were disposed on several place on the construction site..
Place the bin for hazardous waste on a roofed site and make appropriate marking. Submit photo documentation;	Hazardous waste bin were placed and roofed in the special place with appropriate mark.
Hazardous and household waste at the entrance of the facility is mixed and disposed on a unsurfaced car park area. Hazardous waste should be disposed in its intended bin and carried out by a permit company. Submit proof of removal process and photo documentation;	Hazardous waste was disposed in its intended bin and we are waiting the transport for carrying out.
The parking area is contaminated with oils and other lubricants. Also, in some places the soil is contaminated with oils. According to the legislation, remediation of contaminated soil and removal and storage of contaminated sand should be done separately. Removing process should be done by a permit company. Submit a certificate of removal, photo documentation for remediation and cleaned areas;	Contaminated soil and removal and storage of contaminated sand was done separately.
Timely removal of construction materials from the area.	Construction materials were removed

Correction Action Plan (CAP)



Correction Action Plan (CAP)



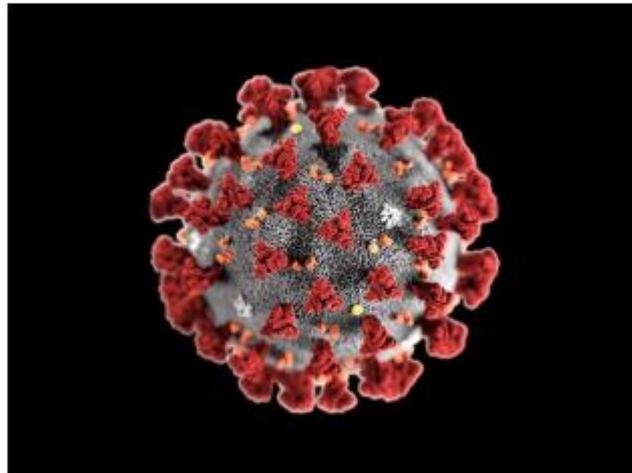
ANNEX E: AMERGENCY RESPONSE PLAN



Construction Supervision of Projects under Urban Services Improvement Investment Program
(USIIP), Tranche 5

Zugdidi (ZUG02 and REG03a), Mestia (MES-03-2019)

COVID-19 Emergency Management Plan for Construction Sites



Project No.: 43405-027

Contract No.: UWSCG/USIIP/QCBS/03-2016

Tbilisi, 2020



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1. Introduction

1.1 project description

1. The Consultant "Posch and Partners", Austria, in cooperation with "Hydro Ingenieure Consulting and Engineerins" of Georgia, as Sub-Consultant, also "Wardrop & Alexander" of Georgia, as Sub-Consultant, are assuring supervision of the following Works contracts:

- The Construction of the Sewage System in Zugdidi (**ZUG-02**);
- The Civil, Mechanical and Electrical Works for STP Construction in Zugdidi (REG-03a);
- The Civil, Mechanical and Electrical Works for STP Construction in Mestia (MES-03-2019);

2. The overall aim of the project is to improve the health condition of residents by addressing the problems associated with poor sewerage services in the towns Zugdidi, Mestia. The objective of the project is to solve the most urgent public health problems through the installation of new sewerage networks and waste water treatment plants.

3. The civil works contracts award sequence is as follow:

#	Contract	Contractor	Start date	Completion date
1	Zug_02	Ludwig Pfeiffer Hoch-und-Tiefbau GMBH&Co.KG	01.02.2017	02.08.2020
2	Reg -03a	JV Ludwig Pfeiffer - Emit	15.01.2018	14.05.2020
3	Mes – 03 - 2019	JV of Toshiba Water Solutions Pvt. LTD; IN-SI LLC	12.12.2019	04.06.2021

4. Project Management Organisation

- Executing Agency (EA) - Ministry of Regional Development and Infrastructure (MoRDI)
- Implementing agency (IA) - United Water Supply Company of Georgia (UWSCG);
- Supervision Consultant - "Posch and Partners";

1.2 What is Covid – 19?

1. Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). It was first identified in December 2019 in Wuhan, China, and has since spread globally, resulting in an ongoing pandemic. As of 11 May 2020, more than 4.14 million

cases have been reported across 187 countries and territories, resulting in more than 284,000 deaths. More than 1.42 million people have recovered;

2. Common symptoms include fever, cough, fatigue, shortness of breath, and loss of smell and taste. While the majority of cases result in mild symptoms, some progress to acute respiratory distress syndrome (ARDS), multi-organ failure, septic shock, and blood clots. The time from exposure to onset of symptoms is typically around five days but may range from two to fourteen days;
3. The virus is primarily spread between people during close contact, most often via small droplets produced by coughing, sneezing, and talking. The droplets usually fall to the ground or onto surfaces rather than travelling through air over long distances. Less commonly, people may become infected by touching a contaminated surface and then touching their face. It is most contagious during the first three days after the onset of symptoms, although spread may be possible before symptoms appear, or from people who do not show symptoms. The standard method of diagnosis is by real-time reverse transcription polymerase chain reaction (rRT-PCR) from a nasopharyngeal swab. Chest CT imaging may also be helpful for diagnosis in individuals where there is a high suspicion of infection based on symptoms and risk factors;
4. Recommended measures to prevent infection include frequent hand washing, maintaining physical distance from others (especially from those with symptoms), quarantine, covering coughs, and keeping unwashed hands away from the face. In addition, the use of a face covering is recommended for those who suspect they have the virus and their caregivers.

1.3 Who is at risk for coronavirus?

1. The virus that causes COVID-19 infects people of all ages. However, evidence to date suggests that two groups of people are at a higher risk of getting severe COVID-19 disease. These are older people (that is people over 60 years old); and those with underlying medical conditions (such as cardiovascular disease, diabetes, chronic respiratory disease, and cancer). The risk of severe disease gradually increases with age starting from around 40 years. It's important that adults in this age range protect themselves and in turn protect others that may be more vulnerable;
2. WHO has issued advice for these two groups and for community support to ensure that they are protected from COVID-19 without being isolated, stigmatized, left in a position of increased vulnerability or unable to access basic provisions and social care.

2. The purpose of the document

1. The purpose of these document for the Construction sector, is to:

- Provide direction to employers and workers;
 - Outline the steps to be taken to best provide a safe and healthy environment, and
 - Identify the action available in the event of interruption to building and construction work, as a result of the coronavirus (COVID-19) pandemic.
2. The Document is intended to have application across all sectors of the building and construction sector. Construction sites are diverse and vary in complexity. To allow for flexible interpretation of these guidance, it is recommended that employers apply a risk-based approach and implement reasonably practical controls based on the environment and specific hazards at each construction site;
 3. This Document have been developed to maintain the safe operation of construction sites, ensuring the safety of workers;
 4. Following of these recommendations these is necessary to minimize and avoid the closure of any construction site;
 5. The recommendations apply to all personnel attending on a building and construction site or project, whether management, staff, employees, contractors or service providers.

3. Risk control on the construction site

To assist with providing and maintaining safe operations during coronavirus (COVID-19) the below measures should be implemented to assist in providing a safe and healthy environment at work.

- Screening workers coming to site
- Workplace Mapping
- Physical Distancing
- Hygiene
- Shared Tools, Plant and Equipment
- Cleaning and Disinfecting
- Personal Protective Equipment
- Inspections
- Travel
- General Communications
- Other measures
- Vulnerable workers

4. The main requirements for workers and for contractors

1. Workers should not come to site if they display symptoms of coronavirus, which include a high temperature and a persistent cough. They should then self-isolate for two weeks. Onsite work should not take place at all if it is non-essential work that requires close contact or skin-to-skin contact between workers;
2. A staggered schedule in all areas of operation is a key measure that sites should take so that workers minimise any contact with each other on site. This applies to arriving and leaving the site, as well as for changing rooms and lunch breaks. Face-to-face meetings should only include "absolutely essential" participants, who should remain two metres apart at all times;
3. All areas of sites should be cleaned much more regularly – such surfaces in communal areas before and after they are used. Reusable PPE should be thoroughly cleaned after use and not shared between workers, while single-use PPE should be disposed of after use.

5. Screening procedure

1. To minimize the risk of transmission of coronavirus (COVID-19) on site, employers must implement a screening process;
2. Temperature is measured for all staff on site three times a day, records are kept and submitted to UWSCG daily;
3. Initial declaration is to be conducted by all workers (this includes any person who attends site), including current and new-starters. Each worker must provide a declaration that they to the best of their knowledge:
 - have not been diagnosed with coronavirus (COVID-19) in the last 14 days, or
 - are not in a period of 14-day quarantine as directed by a health professional, or
 - have not been overseas in the last 14 days, or
 - have not been in contact with anyone who has coronavirus (COVID-19), or
 - have not been in contact with anyone who is currently being tested for coronavirus (COVID19), or
 - do not have anyone in their household who has symptoms consistent with COVID-19.
4. If a worker is experiencing symptoms consistent with COVID-19 or had close contact with a confirmed case, they must:
 - not attend work;
 - contact their employer for further advice and;
 - Not return to work until they have been cleared by a medical practitioner

6. Workplace mapping

1. In the event of an employee being confirmed as having COVID-19, those who are potentially affected need to be quickly identified;
2. Employers should implement processes to record the schedule and work locations for workers that enables tracing of those who have come into contact with the confirmed case;
3. The record should include:
 - day and time work was undertaken
 - members of teams that worked together
 - specific work area on the construction site
 - any breaks taken, including time and location
4. Movement between sites, or areas within large sites, should be minimized as much as possible;
5. Where attending multiple sites is necessary (e.g. for HSRs, first aiders, emergency wardens) movement between sites should be recorded in the workplace mapping

7. Physical Distancing

1. Physical distancing of at least 1.5-2 meters should be implemented wherever possible;
2. Employers should consider each work task and whether there is a safe alternative way to undertake the work with an increased distance between workers;
3. Mark safe distances in work, transit and break areas (e.g. on floors and walls);
4. Consider different shift patterns to minimize the number of workers onsite (e.g. AM/PM shifts);
5. Stagger start times, breaks and finish times to avoid congestion in high traffic areas and minimize workers coming into contact with each other as they move around the site;
6. Plan for how physical distancing will be maintained during inclement weather (e.g. use of lunch or crib rooms and amenities);
7. Install temporary physical barriers (e.g. fences, screens) between work areas, where appropriate;
8. Where it is not possible to undertake work tasks and maintain physical distancing, other control measures need to be implemented. For example: Minimize the number of worker to worker interactions that need to be completed within 1.5 meters;
9. Minimize the number of workers involved in activities that need to occur within 1.5 meters of each other;
10. Provide personal protective equipment (PPE) (e.g. gloves, masks, glasses);
11. Where essential work activities need to be undertaken in restricted spaces.



8. Hygiene

1. Good hygiene practices and general cleaning helps with minimizing the spread of coronavirus (COVID-19). Employers should review general hygiene requirements and the cleaning regimes in place;
2. Employers should display health information in prominent locations on the construction site such as tea rooms, site offices, toilets, foyers and site entrances;
3. Every effort must be made by employers to upgrade personal hygiene and minimize worker to worker contact and all workers must co-operate in all necessary measures to achieve these objectives. These measures need to include:
 - Promote regular hand washing with soap for at least 20 seconds. Employers must facilitate regular hand washing by providing ease of access/additional facilities where possible. Communicate to all workers where hand sanitizers are located and encourage their regular use;
 - Promote good cough etiquette by covering your cough and sneeze, or cough into your elbow or shoulder;
 - Avoid touching your nose, eyes or mouth;

- Provide hand sanitizer and/or hand washing facilities with soap in all site entrances and exits hoists, amenities and areas/levels of the site.
4. Employers must ensure that workers have access to appropriate amenities. Employers should review and revise the number and locations of amenities, to reduce movement around the site.
5. Amenities need to include:
- Hand washing facilities (whether permanent or temporary), such as a wash basin, clean running water, soap and paper towels, placed in strategic locations to ensure employees can access them in a timely manner;
 - Access to hand sanitizer;
 - Rubbish bins with touch-free lids (e.g. foot pedal bins);
 - Thorough and regular sanitation;
 - Appropriate waste management systems

How do I wash my hands properly?

Use liquid soap



Palm to palm



Backs of fingers to opposing palms with fingers interlocked



Palm to palm, fingers interlaced



Rotational rubbing of right thumb clasped in left palm and vice versa



Right palm over back of left hand and left palm over back of right hand



Rotational rubbing, backwards and forwards, with clasped fingers of right hand in left palm and vice versa

Rinse and dry your hands thoroughly

9. Cleaning and Disinfecting

1. Cleaning and disinfecting of surfaces is to be conducted using cleaning products as per DHHS Cleaning and Disinfection guidelines to reduce coronavirus (COVID-19) Transmission – the specific guidance is available here:
 - Cleaning and disinfection of amenities and meal areas must occur between work group breaks;
 - Cleaning and disinfection of Personnel Hoists should occur at the end of each hoist operator shift;
 - Implement regular cleaning and disinfection (minimum of twice daily) to 'Frequently Touched Surfaces', surfaces such as toilets, door handles, stair handrails, light switches, table tops;
 - Additional cleaning/disinfecting on-site. There must be an increased frequency of industrial grade cleaning/additional cleaning/disinfecting on sites across all areas including particular emphasis on commonly touched/communal surfaces;

10. Personal Protective Equipment (PPE)

1. Employers must provide information, instruction and training on the safe use, decontamination and maintenance of any PPE provided;
2. Any PPE provided needs to be practical for the work environment (e.g. allowing the necessary visibility and mobility) and properly decontaminated or disposed of at the end of every shift;
3. Employers should monitor and encourage correct use of PPE, for example providing information on posters and digital screens about:
 - Washing or sanitizing hands before putting PPE on, and putting face protection on before gloves;
 - Removing gloves before face protection, washing or sanitizing hands after removing PPE and decontaminating or disposing of used PPE safely.

11. Common areas

1. Common areas on sites such as the amenities pose risks, and these are reduced by ensuring the following measures are adopted;

2. The time spent in those areas must be limited so as not to breach time constraints recommended by DHHS;
3. Staggering of meal breaks and separation of work groups to achieve maximum personal space and reduce the number of workers accessing those areas at any one time consistent with the Government requirements;
4. Sanitization must occur between occupation of amenities by different work groups;
5. Spread out furniture to ensure physical distancing measures in common areas;
6. There must be an increased frequency of industrial grade cleaning/additional cleaning with specific emphasis on cleaning after each meal breaks in those areas;
7. Workers electing to minimize amenity access;
8. Staggered working hours must be considered on sites with appropriate consultation (consideration must be given to Construction Management Plans, and workers must be given adequate notice of a change in hours).

12. Inspections

1. During inspections of the sites everyone should ensure all measures are in place to ensure compliance. Employers and Health and Safety Representatives are encouraged to work together to assist in this important objective.

13. Travel

1. Adequate arrangements are to be made by workers to ensure their travel to and from work is conducted safely in accordance with Government advice, and that adequate sanitization facilities are in place for workers upon attending the work site and when returning to the work site during work;
2. Workers should ensure that for transport to and from work that they adhere to the hygiene and cleaning guidance, and the physical distancing;
3. Work vehicles that are shared should be regularly cleaned to ensure adequate hygiene and protection.

14. General Communication

1. Ensuring everyone is informed is fundamental to managing this pandemic and ensuring the safe operations of construction sites;

ANNEX F: GENERAL GUIDELINES RELATED TO INFECTION (COVID-19) CAUSED BY NOVEL CORONAVIRUS (SARS-CoV-2) FOR CONSTRUCTION SECTOR



MINISTRY OF INTERNALLY DISPLACED
PERSONS FROM THE OCCUPIED
TERRITORIES, LABOUR, HEALTH AND
SOCIAL AFFAIRS OF GEORGIA

Labour Conditions Inspection Department
Create Together Safe Working Environment!

Annex №2

General Guidance Related to Infection (COVID-19) Caused by Novel Coronavirus (SARS-CoV-2) for Construction Sector

Note: In accordance with Order N281/N of the Minister of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia on “the rule for Examination for Short-term Employment Disability and Issuance of Doctors Note”, the Ministry of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia will issue an equivalent document to the doctors excuse note (Medical Certificate) to persons quarantined in order to prevent the spread of coronavirus. The document will serve as the basis to receive monthly payment and therefore, the working days spend in quarantine or in self-isolation will be legitimate and fully paid to the employees. In order to get the certificate, an interested person has to apply to the Ministry of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia at - info@mhsh.gov.ge.

For further information, please contact:

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The job of builders involves constantly changing work places and work activity existing in open-air conditions. For this reason, in terms of virus spread, construction falls within the medium risk sector because its specificity covers natural ventilation. Nevertheless, it is important to consider the following preventive measures at construction work.



The staff must not appear in the workplace if they :

- Left the affected country over the past 14 days;
- Were in close contact with infected person/persons for the past 14 days (they must be self-isolated/quarantined as per the rule);
- Have symptoms of respiratory infection (coughing, temperature, sneezing, difficulty in breathing, general weakness etc.);
- Are among the ones who have high risk of getting infected with COVID-19 or serious complications: over 70 years of age, people suffering from chronic diseases (cardio-vascular diseases, diabetes, bronchial asthma and other respiratory diseases).

Employer's responsibilities

- Whether or not the incidence of infection is detected, employer should develop an emergency action plan to support reduction of working days missed due to illness, and in case of detection – prevention of spread;
- Provide employees with information about safe working procedures and about prevention of virus spread (guide with the recommendations defined by LEPL L. Sakvarelidze National Center for Disease Control and Public Health of the Ministry of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia);
- Inside the working space post announcements about COVID-19 and about the preventive measures that have been identified by LEPL L. Sakvarelidze National Center for Disease Control and Public Health;
- In relation to the employees who can perform job remotely (administrative personnel) ensure as much as possible use of such working mode;
- At the entrances of break room/dining room, place disinfecting rugs with relevant mandatory sign marking;
- Provide hand-washing facility with soap and other disinfectants. If hand-washing facility is not feasible, at least 70% alcohol-based hand cleansing liquid should be used;
- Visibly place the hand sanitizers and post the rules of their proper use;
- Make sure that employees have access to hand sanitizers and are aware of their use with proper rules;
- Provide all employees and contractors, personnel responsible for cleaning with information about relevant preventive measures to avoid spread of coronavirus in the working environment;
- Train the employees in proper use and further storage/removal of personal protective equipment and disinfectants;

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- Depending on their work specificity, provide the employees with necessary personal protective equipment (protective clothing, protective shoes, helmet, gloves, respirator) and establish control on their use;
- Periodically, several times a day ensure natural ventilation of closed spaces/facilities;
- At certain periodicities disinfect frequently used working equipment and working places;
- Maintain ergonomics at construction site. Ensure timely cleaning of working space and timely disposal of construction waste.
- For employees and visitors ensure closed containers for used disposable tissues and other used hygienic waste in the working space.

Employees' responsibilities

Ensuring proper hand hygiene regularly and thoroughly is the best way to be protected from most of the viruses. Therefore, it is necessary to take the following measures in the workplace:

- Follow hygiene rules in your workplace;
- Carry out the working process in accordance with emergency situations action plan defined by employer/occupational safety manager;
- When greeting do not shake hands and avoid contact with others (touching etc.);
- Avoid gatherings, it is recommended not more than 10 people in one working platform by keeping a safe distance (at least 2 m);
- While performing your work, fully use personal protective equipment provided by the employers;
- Treat with disinfectants the working places and tools used in the course of the work;
- Before and after taking meals, before and after using the restrooms thoroughly wash your hands with soap and water. After washing dry your hands well;
- If you can not wash and dry your hands, use alcohol-based hand sanitizers;
- Keep safe distance (at least 2 m);
- While coughing or sneezing, cover the face with a clean tissue or elbow and place used dispensable tissue in the waste bin;
- Avoid touching your eyes, nose and mouth with your hands.



2. These recommendations have been developed to be communicated to all employers, workers and stakeholders. Everyone is urged to regularly promote and adhere to this document;
3. Site inductions should be updated as required to include information on coronavirus (COVID-19) potential risks and workplace specific controls that have been implemented such as daily screening, health checks and symptoms of coronavirus (COVID-19), staggered start, finish and meal times, good hygiene practices and cleaning regimes and PPE requirements;
4. Toolbox talks should be regularly conducted, and workers are to be encouraged to put forward practical ideas for changing work practices to avoid the spread of coronavirus (COVID-19). Toolbox talks should also provide clarity to workers on leave arrangements for those that cannot work, and to encourage self-reporting and minimize the spread of risk;
5. Toolbox talks should also include updates from the responsible Health Officer as they occur and additional information on the severity of the pandemic and the importance of physical distancing at toolbox meetings.

15. Other measures

1. Construction sites are diverse and vary in complexity, employers must apply a risk-based approach and implement reasonably practical controls based on the environment and specific hazards at each construction site. In addition to the aforementioned measures and controls mentioned in this section, employers should consider other measures for implementation such as:
 - Using alternatives to face to face meetings where practicable;
 - Reducing the length and size of meetings, especially for critical employees, by requiring some or all to dial in;
 - consider off-site fabrication;
 - ensuring working from home arrangements are enabled where feasible;
 - Structuring management teams to ensure contingency in the event of team members needing to be isolated or quarantined at home.

16. Vulnerable workers

1. Has been identified the following groups of people as vulnerable workers in relation to coronavirus (COVID-19):

- people over the age of 70;
 - people with chronic diseases (cardiovascular disease, diabetes, bronchial asthma and other respiratory diseases)
2. Where practical, reasonable action should be taken to minimize vulnerable workers from conducting higher risk roles.

17. Summary of recommendations and responsibility

#	Activity	Responsible for implementation
1.	To provide employees with the information about the work safety procedures and prevention of virus spread (guided by the recommendations of the Ministry of Internally Displaced Persons from the Occupied Territories, Labor, Health and Social Affairs of Georgia and LEPL L. Sakvarelidze National Center for Disease Control and Public Health)	Employer
2.	To place ads in the workspace about the COVID-19 and its preventive measures defined by the LEPL I. Sakvarelidze National Center for Disease Control and Public Health	Employer
3.	To ensure maximum use of remote work in relation to those employees who can perform work remotely (administrative personnel)	Employer
4.	To put mattings at the entrance of the lounge room / dining room, with the relevant sign of indication	Employer
5.	To ensure hand washing at the workspace with appropriate soap and other hygiene products. In case of inability to wash hands, to provide with at least 70% alcohol-based hand cleaning liquids	Employer
6.	To place hand sanitizers and the instruction for their proper use in a prominent place	Employer
7.	To ensure that employees have access to hand sanitizers and know how to use them in accordance with the relevant instructions	Employer
8.	To provide information to all staff and contractors, as well as cleaning staff, on appropriate preventive measures to avoid the spread of coronavirus in the work environment	Employer
9.	To train the employees on the proper use of personal protective equipment and its subsequent storage / disposal	Employer
10.	To provide employees with the necessary personal protective equipment (overalls, special shoes, helmet, gloves, medical mask) based on the specifics of their job and establish control over their use	Employer
11.	Periodically, several times a day ensure natural ventilation of indoor spaces/closets	Employer
12.	Periodically ensure disinfection of workplaces and frequently used equipment	Employer
13.	To keep ergonomics in order at the construction site. To ensure the prompt cleaning of workspace and removal of construction waste	Employer
14.	To ensure placement of closed containers for the disposable napkins and other hygiene waste used by both employees and visitors	Employer
15.	Follow the rules of hygiene at your workplace	Employee

16.	Carry out the work process in accordance with the Emergency Action Plan defined by the employer / work safety manager	Employee
17.	Avoid shaking hands and direct contact with others (touch, etc.) while saluting	Employee
18.	Avoid gathering, the work of more than 10 people on one work platform at a safe distance (less than 2 m) is not recommended	Employee
19.	When performing the work, make full use of the personal protective equipment provided by the employer	Employee
20.	Clean the workplaces and the tools and equipment used during the work process with disinfectants	Employee
21.	Thoroughly wash your hands with soap and water before and after eating, as well as before and the bathroom. Dry your hands thoroughly after washing	Employee
22.	Use alcohol-based hand sanitizers in case if you are unable to wash and dry your hands	Employee
23.	Keep a safe distance (not less than 1.5 m);	Employee
24.	Cover your mouth with clean napkin or elbow when coughing and sneezing and then throw the used disposable napkin in the trash	Employee
25.	Avoid touching your eyes, nose, or mouth with your hands.	Employee

18. Informational banners for COVID -19

ახალი კორონავირუსი
(2019-nCoV)

დაიცავით ხელის ჰიგიენა რესპირაციული ინფექციების თავიდან ასაცილებლად

ხელების ხილული დაბინძურების შემთხვევაში, დაიბანეთ ხაპნითა და გახდინარე წყლით



იმ შემთხვევაში, თუ ხელები შესაძლად ზუღთაა, გამოიყენეთ ხელის დასამუშავებელი სპირტის შემცველი ხსნარი



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ნიღბის გაკეთებამდე დაიბანე ხელები საპნიითა და წყლით ან დაიმუშავე სპირტისშემცველი ხსნარით



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საპნითა და წყლით ან დაიმუშავთ
სპირტისშემცველი ხსნარით.**



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**ნილაბის მოხსნის წესი:
მოიხსენით ნილაბი უკანა თასმის მეშვეობით
(არ შეეხოთ ნილაბის წინა ნაწილს);
მოხსნისთანავე გადააგდეთ უახლოეს დახურულ ნაგვის
ურნაში; დაიბანეთ ხელები წყლითა და საპნით ან
დაიმუშავთ სპირტისშემცველი ხსნარით**



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