

Semi-annual Environmental Monitoring Report

#13 Semiannual Report

(Reporting Period: January-June 2022)

Project Number: 43405-026

**GEORGIA: URBAN SERVICES IMPROVEMENT INVESTMENT PROGRAM
(TRANCHE 4)**

(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

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ABBREVIATIONS

ADB	Asian Development Bank
CAP	Corrective Action Plan
DC	Design Consultant
DEPP	Department of Environmental protection and Permit
DFPMD	Donors Funded Project 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
ERP	Emergency Response 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
LLC	Limited Liability Company
MFF	Multi-tranche Financing Facility
MoEPA	Ministry of Environment Protection and Agriculture
MoRDI	Ministry of Regional Development & Infrastructure
NEA	National Environmental Agency
SAEMR	Semi-Annual Environmental Monitoring Report
SC	Supervision Consultant
SIEE	Supplementary Initial Environmental Examination
USIIP	Urban Sector Improvement Investment Program
UWSCG	United Water Supply Company of Georgia
WS	Water Supply
WSS	Water Supply & Sanitation
WWTP	Waste Water Treatment Plant

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1. INTRODUCTION

1.1 Preamble

1. This report represents the Semi-Annual Environmental Monitoring Review (SAEMR) for “Urban Services Improvement Investment Program” (USIIP), Tranche 4 and describes the period of January-June 2022.
2. This report is the 13th Semi-Annual EMR for the T4 of USIIP.

1.2 Headline Information

3. During the reporting period, construction work was carried out only under the JVA-01 and GUD-02 sub-projects and therefore this report describes the activities carried out under these projects. More detailed information on the implementation status of other sub-projects under USIIP/T4 is presented in Chapter 2 below.

2. 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 4 of the Investment Program includes:
 - Construction of Water Supply System in Zugdidi (Zug 01 - Contract No: P43405-ICB- Zug-01)
 - Construction of Sewerage System in Poti (Pot 01 - Contract No: P43405-ICB-Pot-01)
 - Construction of Wastewater Treatment Plant in Poti (Pot 02 - Contract No: P43405- ICB-Pot-02)
 - Construction of Water Supply System in Jvari (Jvari 02- Contract No: P43405-DC- Jvari-01)
 - Construction of Sewage Collection and Water Supply System in Gudauri (UWSCG- ICB-GUD-02-2028-GUD-02)
7. **Construction of Water Supply System in Zugdidi (ZUG 01).** The project comprises of the construction of 1 water supply pumping station – 1,170 m³, construction of new reservoirs (3,300 m³x3); distribution network - laying of approximately 220 km water supply pipelines; approximately 15 km transmission main; wells - drilling of 10 drinking water wells.
8. The contract ZUG-01 was signed on October 26, 2015 with AS Inshaat–N, LLC(Azerbaijan), the construction works were completed in September 2018 and further extended until October 2021 due to the additional construction works under VO#4 and VO#8, including construction of additional sewage network, connection of residential houses to the main collector and Installation of additional sewage Pump Stations in Anaklia. Post Construction Audit will be conducted during the next reporting period by the Supervision Company SAFEGE and main findings and recommendations of Audit report will be presented in the next SAEMR, July-December 2022.

9. **Construction of Sewerage System in Poti (POT-01).** Pot-01 project includes the construction of 112.4 km of new sewerage pipes, and construction of 28 sewage pumping stations. United Water Supply Company of Georgia signed a contract with TAHAL Group BV on 20 December 2017. Contractual date finished on July 2020 and Contractor was continuing works under Delay Damages, the works Contract is Terminated. The Notice of Termination was issued on 23.03.2022 with the mention that the termination becomes effective with 14 days. On 07.04.2022 the Termination was confirmed by the Employer.
10. Therefore, it is proposed to divide the work into 3 lots in order to complete the remaining rehabilitation work carried out by the contractor and commission the entire system. The Draft version of Supplementary Initial Environmental Examination (SIEE), including three separate EMPs for each Lot is prepared by USIIP Environmental Specialist Ms. Kate Chomakhidze and sent to ADB for final approval. SIEE is considered together with existing three IEE. Retender is in process.
11. **Construction of Wastewater Treatment Plant in Poti (POT-02).** The project comprises of the construction of new Wastewater Treatment Plant with the capacity of 11,663 m³/day for Poti. The contract for construction of WWTP in Poti was signed on December 21, 2017 with JV "Pfeiffer - EMIT" comprised by "Ludwig Pfeiffer Hoch – and Tiefbau GmbH7Co. KG (Germany)" and "EMIT Group – ErcoleMarelliImpiantiTecnologiciS.r.l. (Italy)". Contractual date finished on August 2020 and Contractor is continuing works under Delay Damages, Potential completion of Contract can be considered end of December 2021. Contractor suspended works in mid of December 2021 and informed Employer about Insolvency of Company, up to now is ongoing negotiation in between Contractor and Employer, no any decision was made on this stage.
12. **Construction of Water Supply System in Jvari (JVA-01).** The major works to be implemented for rehabilitation and improvement of Jvari water supply system are following: construction of wells on the well field near the village Lia; installation of about 4 km long transmission pipeline; replacement of distribution pipes in the town; rehabilitation of existing reservoir or construction of new one depending on results of detailed investigation; construction of new pump station.
13. The contract for implementation of JVA-01 was signed on January 17, 2017 with AS Inshaat–N, LLC(Azerbaijan). Contractual date finished on December 2019 and Contractor is continuing works under Delay Damages, Potential completion of Contract can be considered end of December 2021. According Contractor's new working schedule all works should be completed in November-December 2022.
14. **Construction of Sewage Collection and Water Supply System in Gudauri (GUD-02).** The major works to be implemented for rehabilitation and improvement of Gudauri sewage collection and water supply system, including construction of well field, Raw Water Reservoir of 500m³, water pipes and sewage collection system.
15. The contract for implementation of GUD-02 sub-project was signed on 4 January 2019 with "China Nuclear Industry 23 Construction Co." LTD (CNI23). The initial date of completion of the contract was April 2021 and further extended until the end of December 2021. New completion date was November 30, 2021, Contractor completed most of works and was prepared Partially Taking Over for Sewerage Network, Reservoir and Borehole N1, After November 30, 2022 Contractor is applying Delay Damages for Borehole N2 and N3. All works should be completed during Defects Notification Period (November 30.2022).
16. **Supervision Consultant for T4 of USIIP.** Supervision Consultant for Tranche 4 of USIIP is "SAFEGE France with Engineering Solution LLC Georgia".

2.2 Project Contracts and Management

17. The main institutions that are involved in implementation of the EMP are UWSCG executing agency (EA), Supervision Consultant (SC) the Contractor and to a lesser extent the Ministry of Environment Protection and Agriculture (MoEPA).
18. The Investment Program Management Office (IPMO) under UWSCG which is the Donors Funded Project Management Department, is responsible for the day-to-day management of the project, including the implementation of the EMP. IPMO has an Environmental Specialist who is responsible for managing the environmental aspects of the USIIP. The acting head of the department is Ms.Irina Chikhladze.
19. The IPMO Environmental Specialist (Ms. Kate Chomakhidze) responsibilities in respect of implementation of the EMP are as follows:
 - (i) Approve the Site Specific Environmental Management Plan (SSEMP) before Contractor takes possession of construction site;
 - (ii) Monitor implementation of EMP and ensure the environmental safeguards compliance;
 - (iii) Review the updated IEE and/or SEMP and send it for clearance to ADB;
 - (iv) Ensure that contractors have access to the EMP and IEE report;
 - (v) Finalize SAEMRs (and Final EMRs upon project completion), send it to ADB and address potential ADB's comments until SAEMR disclosure; Provide ENG and GEO final versions of SAEMRs to be uploaded on UWSCG website;
 - (vi) Review and approve the Corrective Action Plan and provide to ADB for review and comments if any;
 - (vii) Participate in public consultations during project implementation;
 - (viii) In case of need assist IPMO Social/Resettlement Consultant in resolving process of environmental safeguards related complaints;
 - (ix) Assist in organizing trainings for the Contractors in coordination with ADB/RETA consultant;
 - (x) Participate in external trainings in environmental management and environmental auditing
20. The SC include a full time Environmental Specialist (Mr. Shalva Bosikashvili) to assist the IPMO supervise and monitor implementation of the EMP during construction.
21. The Contractors also appoints a full time Environmental specialists, (please see list of environmental specialists of CC in table 2 - below) to be a senior member of the construction management team based on site for the duration of the contract. The ES has a university degree (preferably at Masters level) in Environmental Science or related discipline and have at least 10 years work experience in environmental management of infrastructure project
22. Department of Environmental Protection and Permits of UWSCG will work together with IPMO on addressing the Environmental Safeguard issues of USIIP sub-projects. More detailed description of implementation arrangements, responsibilities and staffing are provided in the Table 1 below.

Table 1: Institutionnel Arrangement, Responsibilities and Staffing

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Environmental Protection and Permits Department (Environmental Specialist)
1	<p>Environmental planning and management Contractors Environmental Management Plan (site-specific EMP)</p>	<p>Prepare Specific EMP (SEMP) with supplemented Topic Specific EMPs at pre-construction stage based on IEE/EMP Implement SEMPs approved by IPMO.</p>	<p>Review and endorse the SEMPs; Monitor implementation of SEMPs on daily basis; Monitor monthly environmental monitoring reports or results prepared by the Contractor and report to IPMO.</p>	<p>Review and approve the SEMPs; Monitor implementation of EMP and ensure the environmental safeguards compliance.</p>	<p>Work together with IPMO on addressing the environmental non-compliance issues, if any.</p>
2	<p>Changes in design</p>	<p>Provide details of design changes to CSC required to update IEE/EIA, or SEMPs; Implement updated SEMPs.</p>	<p>Approve the design change to be submitted to IPMO; Make environmental assessment of the change and update the IEE and/or SEMPs.</p>	<p>Review the updated IEE and/or SEMPs and send it for clearance to ADB</p>	<p>Liaise with CSC in preparing updated IEE and/or SEMPs; Upload the approved IEE/SEMP provided by IPMO to UWSCG website for Public Disclosure.</p>
3	<p>Unanticipated impacts</p>	<p>Inform CSC about unanticipated impact and follow the instructions received from IPMO.</p>	<p>Make environmental assessment of the unanticipated impact and update the IEE and/or SEMPs</p>	<p>Review the updated IEE and/or SEMPs and send it for clearance to ADB</p>	<p>Liaise with CSC in preparing updated IEE and/or SEMPs</p>

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Environmental Protection and Permits Department (Environmental Specialist)
4	Reporting	Prepare monthly environmental monitoring reports and send it to CSC and IPMO	<ol style="list-style-type: none"> 1. Prepare inputs to environmental part of quarterly construction progress reports; 2. Prepare inputs to semi-annual environmental monitoring report (SAEMR) to be submitted to IPMO for further review, comments and improvement. 3. Conduct Post-Construction Final Environmental Audit and prepare final environmental audit report. 	<ol style="list-style-type: none"> 1. Finalize SAEMRs (and Final EMRs upon project completion), send it to ADB and address potential ADB's comments until SAEMR disclosure; 2. Provide ENG and GEO final versions of SAEMRs to be uploaded on UWSCG website. 	Upload the approved reports (ENG and GEO) provided by IPMO to UWSCG website for Public Disclosure
5	Permits and clearances	NA	NA	NA	Obtaining environmental permits and clearances
6	Non-compliances	Prepare a corrective action plan (CAP)	Assist contractor in preparing the CAP.	Review and approve the CAP and provide to ADB for review and comments if any.	
7	Public consultations	Participate in public consultations during project implementation	Organize public consultations: inform people about activities and prepare the record of consultations.	Participate in public consultations during project implementation	UWSCG & IPMO host PCs, CSC will present the topics related to environmental issues

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Environmental Protection and Permits Department (Environmental Specialist)
8	Grievance Redress Mechanism	Project site Focal person to record environmental grievances in the logbook and follow up with UWSCG established practice for grievance redress	<ol style="list-style-type: none"> 1. Ensure that grievances, if any, are being properly documented and addressed timely and effectively. 2. Assist IPMO to develop consolidated GRM database and consolidation of GRM cases both for ENV and Social safeguards 	In case of need assist IPMO Social/Resettlement Consultant in resolving process of environmental safeguards related complaints; Assist IPMO Social/Resettlement Consultant in GRM database consolidation and data analysis.	UWSCG maintains GRM applicable to all projects. UWSCG will ensure IPMO information on grievances is consolidated into the UWSCG grievances (both - environmental and social) without duplication.
9	Trainings	Attend on-site trainings organized by IPMO and ADB/RETA Consultant	Assist the IPMO in organization of trainings for the Contractors on environmental safeguards requirements.	Organize trainings for the Contractors in coordination with ADB/RETA consultant. Participate in external trainings in environmental management and environmental auditing	Participate in external trainings in environmental management and environmental auditing

23. A list of main organizations involved in the USIIP/T4 and relating to environmental safeguards is presented in Table 2 below.

Table 2: List of Main Organizations under USIIP/T4

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
Lender	Asian Development Bank	Country Environmental Focal	Ninette R. Pajarillaga E-mail: npajarillaga@adb.org
		Associate Safeguards Officer Georgia Resident Mission Asian Development Bank	Nino Nadashvili Tel: +995 595 070442 nnadashvili@adb.org
		ADB RETA, Environmental Consultant	George Kobaladze Tel: +995 599 689834 E-mail: gkobaladze.consultant@adb.org.me
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. Irine Chikhladze Tel: +995 598 179898 E-mail: i.chikhladze@water.gov.ge
Borrower	UWSCG/USIIP/T4	Environmental Specialist	Ms. Ketevan Chomakhidze Tel: +995 577 380309 E-mail: Chomakhidzek@yahoo.com

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
Supervision Consultant	SAFEGE (France) with Engineering Solution LLC (Georgia)	Environmental Specialist:	Mr. Shalva Bosikashvili Tel:+995 595116041 E-mail: sbosikashvili@yahoo.com
Contractor ZUG-01	AS Inshaat-N LLC (Azerbaijan)	Environmental H&S Specialist	Mr. Nodar Usupishvili Tel:+995 577 68 16 71 E-mail: n.usupashvili@gmail.com
Contractor POT-01	TAHAL Group BV	Environmental H&S Specialist	Mr.Beka Khachidze Tel: +995 599 346 821 E-mail: r.kalandadze@yahoo.com
Contractor POT-02	JV "Pfeiffer - EMIT" comprised by "Ludwig Pfeifer Hoch – and TiefbauGmbH7Co. KG (Germany)" and "EMIT Group – ErcoleMarelliImpiantiTecnologiciS.r.l. (Italy)	Environmental Specialist H&S Specialist	Mr.Nikoloz Neparidze Tel: +995 599 346 821 E-mail: nikoloz.neparidze@ludwigpfeiffer.com
JVA-01	AS Inshaat-N LLC (Azerbaijan)	Environmental H&S Specialist	Mr. Nodar Usupishvili Tel:+995 577 68 16 71 E-mail: n.usupashvili@gmail.com

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
GUD-02	"China Nuclear Industry 23 Construction Co." LTD (CNI23)	Environmental H&S Specialist	Mr. Aleksandre (Sasha) Mchedlishvili Tel: +995 574 02 77 33 E-mail: alexandermchedlishvili1@gmail.com

2.3 Project Activities during Current Reporting Period

24. During the reporting period construction activities was carried out only under JVA-01 and GUD-02 sub-projects, therefore this sub-project is reported in this Semi-annual EMR. Contractor intensified all activities to improve the progress of the works on sites. The Engineers gave processed frequent instructions to the Contractor for the planning and outstanding documents preparation which shall ensure steady improvement of the works progress.
25. Information about the construction work under USIIP/T4 during the reporting period – January-June 2022 is presented in the Table 3 and Table 4 below.

POT-02 Sub-project

26. During the reporting period no progress was made under POT-02 sub-project, Contractor suspended all works in mid of December 2021.

POT-01 Sub-project

27. During the reporting period no progress was made under POT-01 sub-project. The Contract for POT-01 sub-project under USIIP/T4, was awarded to TAHAL Group BV on 20 December 2017. Contractual date finished on July 2020 and Contractor was continuing works under Delay Damages. The progress of contractor was very slow. Finally the Notice of Termination of construction works was issued on 23.03.2022. On 07.04.2022 the Termination was confirmed by the Employer. Retender is in process.
28. TAHAL Group BV on 20 December 2017. Contractual date finished on July 2020 and Contractor is continuing works under Delay Damages, the works Contract is Terminated. The Notice of Termination was issued on 23.03.2022 with the mention that the termination becomes effective with 14 days. On 07.04.2022 the Termination was confirmed by the Employer.

29. Based on the above mentioned, it is proposed to divide the work into 3 lots in order to complete the remaining rehabilitation work carried out by the contractor and commission the entire system. The Draft version of Supplementary Initial Environmental Examination (SIEE), including the three separate EMPs for each Lot is prepared by USIIP Environmental Specialist Ms. Kate Chomakhidze and sent to ADB for final approval. SIEE is considered together with existing IEE.

JVA-01 Sub-project

30. The progress of main activities under JVA-01 sub-project, carried out by contractor during the reporting period is provided in the Table 3 below:

Table 3. Project Progress during the January-June 2022 for JVA-01

Jvari	Jvari Water Supply System Construction	
Sites	Jvari Water Pipeline Network	
Jvari	Jvari Transmission Pipelines	Executed During January-June 2022
Works undertaken during January-June 2022	<p>Executed January 2021 – July 2021. Total Completed %: OD DCI 300 SDR7.4 - 4200m was laid-2817 67%</p> <p>Reservoir: Civil works completed 95% (Was ongoing repair works and tightness test for reservoirs) Pumping Station including reservoir and Transformer building: Civil works completed 70%</p> <p>Lia Well Field: Was ongoing repair works on Well houses</p>	452.5m

GUD-02 Sub-project

31. The main activities under GUD-02 sub-project, carried out by contractor during the reporting period is provided in the Table 4 below:

Table 4: Project Progress during the January-June 2022 for GUD-02

GUD 02	Total Completed %	Executed During January-June 2022
Works undertaken during January-June 2022	For GUD-02 Project was executed:	
	1. Installation of Corrugated Pipe D-200 – 22000 m (Out of 22000); - 100%	2909m
Works undertaken during January-June 2022	2. Installation of Concrete Manhole D 1000– 1549m;- 100%	305m
	3. Construction of Reservoir – 100 % (Civil Works and Pipe Connections)	During this period was executed all civil works (Reservoir, Guard House, Chlorination building and Chamber)
	4. Construction of Boreholes: N1Drilling - 100%: N2- 75% and N3- 85%	Borehole N1-Pipe installation Borehole N2-Drilling 220m Borehole N3-Drilling 310m

2.4 Description of Any Changes to Project Design

32. During the reporting period, no design changes were made to sub-projects under USIIP/T4.

2.5 Description of Any Changes to Agreed Construction methods

33. During the reporting period, no changes were made to the agreed construction methods for sub-projects under USIIP/T4.

3. ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

- 34.** A total of 6 site visits have been conducted at different times during reported period (January - June 2022) under JVA-01 and GUD-02 sub-projects and included:

 - The monitoring of compliance of construction activities under JVA-01 project sites to the IEE/EMP requirements;
 - The monitoring of compliance of construction activities under GUD-02 project sites to the IEE/EMP requirements.
- 35.** A summary of the status of the monitoring visits, including dates of site visits, photographs, persons involved in site visits, etc., is shown in Table 6 below. During the reporting period, onsite training workshop and a meeting with representatives of the Contractors and the Supervision Consultant were held.
- 36.** Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of USIIP on a regular basis.
- 37.** Environmental Monitoring Specialist hired under the JVA-01 sub-projects Mr. Nodar Usupishvili conducted the day-to-day monitoring of the construction sites, developed monthly monitoring reports and submitted to SC/Safege.
- 38.** Environmental Monitoring Specialist hired under the GUD-02 sub-project by contractor Mr. Aleksandre Mchedlishvili conducted the day-to-day monitoring of the construction sites, developed the monthly monitoring reports and submitted to SC/Safege.
- 39.** Environmental Monitoring Specialist of SC/Safege, Mr. Shalva Bosikashvili conducted monthly monitoring of project sites under T4 and developed Non-Conformance Notices where required. He also developed quarterly environmental monitoring reports based on the monthly reports submitted by Contractor and environmental site inspections and submit to UWSCG.
- 40.** Environmental Specialist of USIIP Ms. Kate Chomakhidze performed monitoring of contractor's performance in accordance with the requirements of approved IEE/EMPs, SEMP, and other environmental commitments of the contractor. Prepare Non-compliance Notice were required developed Semi-Annual Environmental Monitoring reports and submitted to ADB based on the quarterly reports prepared by SC and monitoring results.
- 41.** In accordance with the requirements of IEEs, Contractor is required to undertake parametric measurements and observations on air quality and noise and socio-cultural resources. The monitoring guidelines were set as shown in the Table 5 below for JVA-01 and GUD-02 sub-projects.

Table 5: Parametric Measurement Guidelines

Parameters	Frequency & Location	Remarks	Statuses
USIIP/T4			
JVA-01			
Impact on Flora and Fauna	Monthly, during the site Inspection and audit.	Avoid tree cutting In unavoidable cases, plant four trees of same species for each tree that is cut for construction	Completed
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.	Completed
GUD-02			
Air Quality	Every 6 months, Waste Water Treatment Plant 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	Completed

Parameters	Frequency & Location	Remarks	Statuses
USIIP/T4			
Noise	Every 6 months, Waste Water Treatment Plant construction site	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8 am – 6 pm	Completed
Topsoil (in amount of 60m ³)	Monthly, during the site monitoring.	Top soil of about 15 cm depth should be removed and stored separately in appropriate location and reinstated after completion of construction activities. Top soil should be stockpiled as required in long, low piles (maximum height 2 m. with 45° sloped sides, washout prevented) adjacent to the works to maximize the viability of the natural seed stock in the soil.	Completed

42. The whole reporting period (January – June 2022) went through pandemic situation of COVID-19. However, this did not affect the construction process and civil work went on regular basis. UWSCG and SC directed all concerned to take proper measures to prevent the pandemic and contractor's workers were advised to keep proper health hygiene by wearing facemask, hand washing and maintaining physical distances at the work sites.
43. In response to COVID-19, 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) which applies to all sectors of economic activity.
44. General guidelines on COVID-19 have been additionally developed specifically for the construction sector (see Appendix D) by the Government of Georgia as well.



45. This COVID-19 Construction Sector Guidelines have been created to provide construction project owners/operators and their employees and contractors with precautions to protect against the spread of COVID-19 on indoor and outdoor construction sites.
46. In June 2020 SC/SAFEGE has developed an emergency response plan (ERP) to prevent employees against COVID-19 (Please see ANNEX G). In addition, in June 2020 contractors updated all EH&S documents, including health and safety plans and site-specific environmental management plans.


3.2 Site Audits


47. Inspection and monitoring of construction sites were conducted under GUD-02 and JVA-01 sub-projects by ESs of UWSCG/USIIP and Safege. The schedule of Joint inspection and summary of audits carried out under JVA-01 and GUD-02 sub-projects are provided in the Table 6 below.


Table 6. Summary of site audits


Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
Continuously during reporting period (January-June 2022)	AS Inshaat-N LLC (Azerbaijan) JVA-01	EH&S Specialist of Contractor Mr. Nodar Usupishvili	Day to day monitoring of sites Compliance with Environmental and HES requirements	Poor housekeeping Safety issues on construction sites	Monthly Monitoring Reports	Completed on the monthly basis
11.04.2022		Environmental Specialist of SC Mr. Shalva Bosikashvili USIIP environmental Specialist Ms. Kate Chomakhidze	Regular Monitoring of Sites	Site internally should be arranged properly and cleaned regularly. All construction materials and wastes should be properly segregated and stored adequately Proper warning and safety signs should be provided at the perimeter of the Open pit Construction waste should be removed from the alongside the road, please see Photo N1 below	Non-compliance notice were issued to contractor and corrective actions were required to immediately improve the situation on sites under JVA-01 sub-project (Please see Annex C)	Completed (30.06.2022) Completed (30.05.2022) Completed (30.05.2022) Completed (30.05.2022)



Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
				 <p data-bbox="1144 613 1486 803">Unsafe work on height, In case of working on height, more than 1,5m. workers must use protective equipment, please see Photo N2 below</p> 		Completed (30.05.2022)


Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
4 May 2022		Environmental Specialist of SC Mr. Shalva Bosikashvili	Regular Monitoring of Sites	<p>Proper warning and safety signs should be provided at the perimeter of the Open pit, please see Photo N1 below</p> 		Not completed, Will be completed by the end of July 2022 (please see Table N19)
14 June 2022		Environmental Specialist of SC Mr. Shalva Bosikashvili	Regular Monitoring of Sites	<p>Oil spill response kits should be placed at the appropriate locations.</p> <p>Refueling station should be equipped with the spill kit and fire relevant fighting equipment; drip tray should be used for fuel spillage prevention.</p>	Non-compliance notice were issued to contractor and corrective actions were required to immediately improve the situation on sites under JVA-01 sub-project (Please see Annex C)	<p>Completed (30.06.2022)</p> <p>Completed (30.06.2022)</p>

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
				<p>Please see photo N1 below</p> 		
Continuously during reporting period (January-June 2022)	China Nuclear Industry 23 Construction Co., Ltd GUD-02	Environmental H&S Specialist of Contractor Mr.Aleksandre Mchedlishvili	Day to day monitoring of sites Compliance with Environmental and H&S issues Monthly Monitoring of construction sites	Site internally should be arranged properly and cleaned regularly. Minimize tree cutting on construction site, due to construction purposes	Prepare monthly monitoring reports	Completed (30.06.2022)

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
24 May 2022		<p>Environmental Specialist of SC Mr. Shalva Bosikashvili</p> <p>Environmental specialists of USIIP Ms. Ketevan Chomakhidze</p>	Monthly monitoring of sites	<p>Site internally should be arranged properly and cleaned regularly.</p> <p>All construction materials and wastes should be properly segregated and stored adequately.</p> <p>Pipes, gravel and precast concrete scattered uncontrolled, storing is not marked with warning tape, please see photo N1 below</p> 	<p>Non-compliance notice were issued to contractor and corrective actions were required to immediately improve the situation on sites under GUD-02 sub-project (Please see Annex C)</p> <p>Corrective Action Plan was developed by contractor and sent to SC and UWSCG on May 2022, please see Annex D below</p>	<p>Completed (30.06.2022)</p> <p>Completed (30.06.2022)</p> <p>Completed (30.06.2022)</p>

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
23 June 2022		<p>Environmental specialists of USIIP Ms. Ketevan Chomakhidze</p> <p>Ms. Maka Goderdzishvili Head, Department of Environmental Protection and Permits</p>		<p>Gudauri Reservoir</p> <p>Develop a reinforcement plan and take appropriate protective measures around the entire perimeter of the Gudauri reservoir with an appropriate technical solution to prevent the danger of land collapse, see Photo N1</p>  <p>Proper reinstatement activities should be carried out after completion of the construction works and reservoir must be cleaned of gravel and covered with a top soil, Photo N2</p>	<p>Non-compliance notice were issued to contractor and corrective actions were required to immediately improve the situation on sites under GUD-02 sub-project (Please see Annex C)</p>	<p>Not completed, Will be completed by the end of July 2022 (please see Table N19)</p> <p>Not completed, Will be completed by the end of July 2022 (please see Table N19)</p>

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
				 <p data-bbox="1142 553 1507 997">In order to ensure the safe movement of the workforce and the personnel employed on the site, near the old reservoir and other objects on the construction site, proper bridges/ladder that meet the standards should be arranged (immediately), Photo N3</p> 		Completed (30.06.2022)

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
				<p>Proper waste management should be implemented; Household and hazardous waste must be stored separately with appropriate labels, please see Photo N2</p>  <p>Concrete washing areas should be arranged in compliance with relevant regulations; and in case of soil contamination with concrete, the concrete layer must be removed and placed in accordance with the regulations;</p> <p>In case of oil spillage on the soil, the</p>		<p>Completed (30.06.2022)</p> <p>Completed</p>

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Cross Reference to Audit Report	Status of implementation
				<p>contaminated layer should be removed and remedial works should be carried out;</p> <p>Different types of construction materials should be stored separately;</p> <p>There should be a log of complaints/registration at the construction site.</p>		<p>(30.06.2022)</p> <p>Completed (30.06.2022)</p> <p>Completed (30.06.2022)</p>

3.3 Issues Tracking (Based on Non-Conformance Notices)

48. The contractors EHS performance are always reviewed by Supervision Consultant and IPMO. Necessary actions are undertaken when contractors are not in conformance and the EH&S issues.
49. Two Non-Compliance Notices have been issued during the site visits under GUD-02 sub-project and three NCNs under JVA-01 sub-project. The contractors were always informed on the detected non-conformances and were demanded to improve on the deadline set and send CAP and/or photos of improvements. Environmental team of SAFEGE 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.
50. In case that the contractor did not make any improvements within the indicated deadline, IPMO/PIU always held additional meetings and discussions with contractors and Safege on how to correct the non-compliances. All this non-compliances are presented in the table 6 above. Since the deadline for improvements of above issues are set for the first half of August 2022, the main findings will be reflected in the next semi-annual EMR, July-December 2022.
51. A summary of the identified environmental issues under JVA-01 and GUD-02 sub-projects for January-June 2022 is presented in Table 7, 8 and 9 below.

Table 7: Summary of Issues Tracking Activity for Current Period - JVA-01

Total Number of Issues for Project	8
Issues Opened This Reporting Period	1
Issues Closed This Reporting Period	7
Percentage Closed	88%

Table 8: Summary of Issues Tracking Activity for Current Period - GUD-02

Total Number of Issues for Project	14
Issues Opened This Reporting Period	3
Issues Closed This Reporting Period	11
Percentage Closed	79%

52. As it is presented in Table 12 above, one issue is still opened under JVA-01 sub-project and

two issues under GUD-02 sub-project, which will be improved by the end of July 2022 and improved photos of sites will be presented in the next Semi-annual EMR, July-December 2022, these issues are as following:

JVA-01

- (i) Proper warning and safety signs should be provided at the perimeter of the Open pit, please see Photo N1 below and two issues under GUD-02 sub-project

GUD-02

- (ii) Develop a reinforcement plan and take appropriate protective measures around the entire perimeter of the Gudauri reservoir with an appropriate technical solution to prevent the danger of land collapse Proper restoration work should be carried out after the construction is completed;
- (iii) Proper reinstatement activities should be carried out after completion of the construction works and reservoir must be cleaned of gravel and covered with a top soil
- (iv) To prevent local community from entering the construction site, a temporary protective fence and gate should be immediately arranged around the entire perimeter of the construction site, and relevant warning and information signs should be posted to inform the local population

3.4 Trends

- 53. To identify trends in environmental issues, information from previous Semi-Annual EMR (July-December 2021) is used. The summary of the issues is provided in the Table 9 below. There were no unresolved issues identified within USIIP/T4 not only within the previous SAEMR, but also since the start of the sub-projects.

Table 9: Summary of identified trends in environmental issues

Semi-Annual EMR No	Total No of Issues	% issues Closed	% issues closed late
July-December 2021	35	94%	6%
January-June 2022	22	87%	13%

- 54. Most of the non-compliances were eliminated by the contractors within the specified time frame within the sub-projects JVA-01 and GUD-02. The required actions and deadline to improve the remaining inconsistencies are presented in table 19 below.
- 55. The UWSCG Department of Environment Protection and Permits (DEPP) and its USIIP Environmental Specialist, Ms. Kate Chomakhidze, as well as IPMO/UWSCG had always discussed the inconsistencies and findings presented in Table 6 above with the contractor. In some cases, this has led to meetings to discuss non-compliances identified during the site visit and mitigation measures that need to be implemented immediately.
- 56. In cases contractor does not improve the situation to 100% on the sites within the proposed

time frame, additional meetings and discussions will be held by UWSCG and SC. All improvements will be duly reflected in the next SAEMR January-June 2022.

3.5 Unanticipated Environmental Impacts or Risks

- 57.** During the reporting period, COVID-19 is viewed as an unanticipated impact and risk to the community and workers, however, IPMO, SC and CC have taken all appropriate measures to minimize this risk. These measures, inter alia, included updating the relevant SEMP by the contractor, developing emergency management plan by SC, advising contractor workers to keep proper health hygiene by wearing facemask, washing hands and practicing physical distances at the work sites, etc. For more information on additional risk mitigation measures caused by COVID-19 please see paragraphs 42-46 above. There were no other unanticipated Environmental Impact under USIIP/T4 during the reporting period.

4. RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Monitoring Conducted during Current Period

58. During the reporting period Environmental measurements of Noise level and Ambient Air Quality were carried out by contractor only under Pot-02 sub-project.
59. Noise and air pollution standards defined by IFC/WHO 1999, are presented in the Table 10 and 11 below.

Table 10: 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

60. Air pollution standards by IFC/WHO 1999, are presented in the Table 15 below. National Air Pollution Standards are provided in the Table 11 below.

Table 11: 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/ 1Hour 0,04/1Year
Aldehyde	n/a

61. Georgian Standards for noise level is presented in the Table 12 below.

Table 12: Georgian Standards for Noise Levels

Purpose/use of area and premises	Allowable limits (A-Weighted Decibels (dBA))		
	L _{day}		23:00 – 08:00 L _{night, Night}
	08:00 - 19:00, Day	Evening 19:00-23:00	
Educational facilities and library halls	35	35	35
Medical facilities/chambers of medical institutions	40	40	40
Living quarters and dormitories	35	30	30
Hospital chambers	35	30	30
Hotel/motel rooms	40	35	35
Trading halls and reception facilities	55	55	55
Restaurant, bar, cafe halls	50	50	50
Theatre/concert halls and sacred premises	30	30	30
Sport halls and pools	55	55	55
Small offices (≤100m ³) – working rooms and premises without office equipment	40	40	40
Small offices (≤100m ³) – working rooms and premises without office equipment	40	40	40
Conference halls/meeting rooms	35	35	35
Areas bordering with houses residential, medical establishments, social service, and children's facilities (>6 story buildings)	55	50	45
The areas bordering with hotels, trade, service, sport, and public organizations	60	55	50

Note: in case noise generated by indoor or outdoor sources is impulse or tonal, the limit must be 5dBA less than indicated in the Table.

62. Table 13 shows the threshold values of the major air pollutants as defined by the GEO, IFC and EU legislation.

Table 13: Ambient Air Quality Standards

Parameter	Averaging Period	Limit (µg/m ³)		
		Maximum Permissible Concentration (MPC) in Georgia	IFC Guideline Value	EU Ambient Air Quality Guidelines
Nitrogen Dioxide (NO ₂)	30 minutes	200	-	-
	1 Hour	-	200	200
	24 Hours	40	-	-
	1 Year	-	40	40
Sulphur Dioxide (SO ₂)	10 minutes	-	500	-
	30 minutes	500	-	-
	1 Hour	-	-	350
Carbon Monoxide (CO)	24 Hours	50	20	125
	30 minutes	5,000	-	-
	24 Hours	3,000	-	-
Total Suspended Particulates (TSP) / Dust	24 Hours	150	-	-
	30 minutes	500	-	-

Parameter	Averaging Period	Limit ($\mu\text{g}/\text{m}^3$)		
		Maximum Permissible Concentration (MPC) in Georgia	IFC Guideline Value	EU Ambient Air Quality Guidelines
PM10	1 year	40	20	40
	24 hours	50	50	50
PM2.5	1 year	25	10	25
	24 hours		25	-
Ozone	8-hour daily max.	120	100	120

63. The Georgian Standards for vibration are designed for human comfort. These are shown in Table 14 below. Note that no standards for building damage exist.

Table 14: Georgian vibration values

Average Geometric Frequencies of Octave Zones (Hz)	Allowable Values X0, Y0, Z0			
	Vibro-acceleration		Vibro-speed	
	m/sec ²	dB	m/sec 10 ⁻⁴	dB
2	4.0	72	3.2	76
4	4.5	73	1.8	71
8	5.6	75	1.1	67
16	11.0	81	1.1	67
31.5	22.0	87	1.1	67
63	45.0	93	1.1	67

Note: It is allowable to exceed vibration normative values during daytime by 5 dB during daytime. In this table of inconstant vibrations, a correction for the allowable level values is 10dB, while the absolute values are multiplied by 0.32. The allowable levels of vibration for hospitals and rest houses have to be reduced by 3dB.

64. Environmental quality measurements of noise level and ambient air quality under GUD-02 sub-project were conducted by the Ltd. NASETO GROUP on 17 June 2022 (See Table 15 and Table 16 below and Annex A). The distance from the construction sites to the nearest residential houses is more about 500 m. The next monitoring measurements will be conducted in September 2022 and results will be reflected in the next Semi-annual EMR, July-December 2022.
65. According to data received in June 17 noise level in some place (Gudauri Track, please see Table 15 below) exceeds the standards of the National Regulations and World Health Organization (IFC/WHO),1999 under GUD-02 sub-projects and therefore additional mitigation measures which are presented in the table 19 below are required (please see IFC/WHO and national standards for Noise and Air pollution in Tables 10 and 13 above). It should be noted also that measurements carried out at construction sites, were temporary and conducted during the daytime from 12:50 pm to 15:40 pm and no complaints were received from the local population about the noise during the reporting period.

Table 15: Environmental Quality Measurements, GUD-02 (Noise, Vibration)

Measurement point		Measurement results							
Location	Coordinates	Noise Max. dBA (MAX) (1 hour)	Vibro Speed		Vibro Acceleration		Dust mg/m ³		
			m/s ²		db		PM _{2.5}	PM ₁₀	Total
GudaUri Pumping Station	38TO458893 4702408	48,6	<0,1	<66	<0,1	<100	0,011	0,016	0,019
GudaUri Reservoir	38TO457008 4703113	47,4	<0,1	<66	<0,1	<100	0,009	0,015	0,017
GudaUri Track	38TO457187 4702170	65,8	<0,1	<66	<0,1	<100	0,034	0,039	0,043

Table 16: Environmental Quality Measurements, GUD-02 (Air Pollution)

Measurement Point		Measurement Results mg/m ³			
Location	Coordinates	Nitrogen dioxide	Sulfur dioxide	Carbon monoxide	Total Hydrocarbon
GudaUri Pumping Station	38TO458893 4702408	0,007	<0,01	0,21	<0,1
GudaUri Reservoir	38TO457008 4703113	0,009	<0,01	0,25	<0,1
GudaUri Track	38TO457187 4702170	0,021	<0,01	0,59	<0,1

66. During the reporting period, environmental quality measurements were not carried out within the framework of JVA-01, as construction activities included only a small amount of earthworks and none of the activities under the sub-project had a potential to generate significant noise and air pollution, as there were no sensitive receptors in the proximity of the construction sites (approximately 600m). Also construction activities did not involve high noise/vibration generating activities like pile-driving or rock cutting. Notwithstanding the above, ES UWSCG / USIIP asked SC to issue a non-compliance notice to the contractor to ensure that environmental quality measurements are carried out during the construction works and provide the measurement data to UWSCG.

List of measurement devices unit and validity of calibration

67. During the environmental quality measurement the following measurement devices were used: Noise – Mini Sound level meter N05CC; Vibration – Smart Sensor – AR63B Vibration meter; Dust – Portable Dust Detector model LB-HD08 and Gasella Mikro Dust Pro (Self-calibration zero and optical filter). For nitrogen dioxide and carbon monoxide – Elan CO/NO₂; Total hydrocarbon MiniRae 7600, sulfure dioxide – WASP-XM-E-SO₂.

4.2 Trends

68. All mitigation measures identified in relevant IEE/EMP and SEMP within the framework of the GUD-02 and JVA-01 sub-projects are effective and Construction Company is required to follow all these requirements.

4.3 Summary of Monitoring Outcomes

69. The noise and air pollution levels during the construction period under the GUD-02 subproject in some places (Gudauri Track, please see Table 15 above) exceed the existing IFC / WHO standards and national regulations, and therefore additional mitigation measures are required, which are presented in Table 19 of this report.

4.4 Material Resources Utilization

4.4.1 Current Period

70. The material resources utilized by contractor - under GUD-02 sub-project during the reporting period – January-June 2022 is provided in the Table 17 below.

Table 17: Material Resources Utilization under GUD-02 Sub-project, January-June 2022

N		Monthly	Measurement
1	Consumption of Drinking Water	450	LT
2	Consumption of Technical Water	3	T
3	Fuel	8000	L

71. There is no information on material resources (Consumption of Drinking Water and Technical Water, Electricity) used during the reporting period under the JVA-01 sub-project from the contractors despite numerous written and oral instructions and requests issued by Environmental Consultant of UWSCG / USIIP. UWSCG has issued non-compliance notice to contractors under JVA-01 sub-projects on the above matter. Information about material resources utilization during the next reporting period will be presented in relevant SAEMR of July-December 2022.

4.4.2. Cumulative Resource Utilization

72. No cumulative resources utilization was provided by contractor despite of numerous verbal request and instructions. This information, will be reflected in the next SAEMR, July-December 2022.

4.5 Waste Management

4.5.1 Current Period

73. At the construction sites of JVA-01 and GUD-02 sub-projects, there are mainly produced household, construction (inert, surplus soil) and hazardous waste. Mainly household waste is collected in municipal containers which are served by the local cleaning services of the local

Municipalities.

74. Hazardous waste is removed from the area on the basis of agreements concluded by contractors with certified companies under JVA-01 and GUD-02 sub-projects after the start of civil works.
75. There is need of routine organization and cleaning of sites. Contractors always have separate containers for household and hazardous waste with proper labeling at the construction site.
76. 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.

GUD 02

77. Household waste is collected at the construction sites in the Household Waste containers and transmitted to Municipal waste containers and finally disposed at the Kazbegi landfill.
78. Construction/demolition waste are also disposed according to the agreement with Solid Waste Management Company at the Kazbegi landfill, please see relevant agreement in ANNEX G to this report.
79. Hazardous waste is collected at the construction territories in the Hazardous Waste containers and according agreement transmitted to Medical Technology Company for final disposal. HSE specialists of the construction companies is responsible for the waste management under GUD-03 sub-project. On-job environmental safeguards training have been also conducted which included topics of waste management as well, please see relevant agreement in ANNEX G to this report.

4.5.2 Cumulative Waste Generation

N/A

4.6 Health and Safety

4.6.1 Community Health and Safety

80. No community incidents have been reported to SC during reporting period under JVA-01 and GUD-02 sub-projects.
81. Relevant measures are undertaken for COVID-19 prevention at construction sites, more detailed information is provided in the Paragraphs 31-34 above.

4.6.2 Worker Safety and Health JVA-01

82. Environmental H&S Manager of JVA-01 sub-project Mr.Nodar Usupishvili was performing

day-to-day monitoring of sites, according to EH&S standards and by requirements of UWSCG and SC/SAFEGE and providing relevant reports on a regular basis taking into account any recommendations given by SC/UWSC.

83. EH&S issues which were covered during the reporting period are as follows:

- PPE;
- Ground works;
- Manual works;
- Unsafe work on height

84. No workers incidents have been reported during reporting period under JVA-01 project, which may be resulted in Health and Safety problems.

4.6.3 Worker Safety and Health GUD-02

85. Environmental H&S Manager of GUD-02 sub-project Mr. Aleksandr Mchedlishvili was performing daily monitoring of construction sites, including supervision of ongoing works according to EH&S standards.

86. Health & safety and environment issues which were covered during the reporting period are as follows:

- PPE;
- Reinforcement;
- Ground works;
- Manual works

87. Contractor under GUD-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 GUD-02 sub-project.

88. The following Near-Misses were reported by SC under GUD-02 sub-project, which may be resulted in Workers' Health and Safety problems:

- Workers always should use complete PPE to avoid accidents

89. No workers incidents have been reported during reporting period under JVA-01 project, which may be resulted in Health and Safety problems.

4.7 Training

90. Routine personnel trainings and toolbox talks happen by the construction companies almost on daily basis under GUD-02 and JVA-01 sub-projects. Environmental Specialist of SC Mr. Shalva Bosikashvili and Environmental Specialist of USIIP Ms. Kate Chomakhidze also provided verbal instructions and training for Construction Company's Environmental and H&S officers on a regular basis in accordance with the relevant Terms of References. The above trainings were conducted to ensure that contractors understand their responsibilities

for the implementation of the IEE/EMP, and to mitigate environmental issues associated with their construction activities. Due to weather conditions, construction work under GUD-03 began at the end of May 2022, the ESs gave only verbal instructions and conducted a limited number of trainings. Additional activities will take place during the next reporting period, July-December 2022, and will be reflected in the next SAEMR report.

91. During the Country Environmental Safeguard Mission in May 2022, led by the Country Environmental Focal, Ms. Ninette R. Pajarillaga the need for environmental and social training for SCs and CCs under USIIP was identified. Requests for training on environmental and social issues have been sent to UWSCG/USIIP for ADB planning consideration. The following topics have been identified by UWSCG/USIIP, SC and CC for training sessions for ADB:

92. Social Safeguard Issues:

- Social Safeguard Expert /Roles and Responsibilities;
- Overview of ADB's social safeguard policy;
- Principles and elements of a GRM;
- Essential skills of a GRM;
- Steps in handling complaints;
- GRM processes (what are the project related complaints, how to register them, how to maintain complaint logs, how to proceed with investigations and escalation of the complaints, etc)
- Effective consultation and participation;
- What are the proper communication with the project impacted people and who should be the source of the communication;
- Communicating for understanding;
- Working with vulnerable groups;
- Stakeholder engagement in GRM issues;
- Monitoring and reporting on social safeguard

93. Environmental Safeguard Issues:

- Environmental Management Plan (EMP);
- Environmental Impact and Mitigation Measures during Construction phase (including top soil and excess soil management generated due to the excavation works, waste management, reduction of dust, noise, and vibration during construction);
- Reduction of odor generation during operation

94. Detailed information on the follow-up to the training request will be reflected in the next SAEMR July-December 2022.

5. FUNCTIONING OF THE SEMP

5.1 SEMP Review

- 95. All SSEMPs under ZUG-01, POT-01, POT-02, JVA-01 and GUD-02 projects were prepared by Contractor, endorsed by SC and approved by UWSCG and reviewed/commented by the RETA International Environmental Consultant of ADB under RETA 8663-Ms. Ketil Dgebuaдзе.
- 96. SEMP prepared by contractors, within the framework of ZUG-01, POT-01, POT-02 and JVA-01 sub-projects during the current and previous reporting periods are presented in table 23 below.
- 97. SEMP for construction of Water Reservoir and well fields under GUD-02 is prepared by contractor and submitted to SC for their endorsement.
- 98. This SEMP for POT-02 sub-project was prepared in May 2018, as it is presented in the table below and further updated in August 2020 due to the design changes identified in VO#2, including construction of an emergency bypass for a new WWTP of Poti.

Table 18: SSEMPs Prepared under ZUG-01, POT-01, POT-02 and JVA-01 Sub-projects are given in the table below

No	Project/Site	Date of Approval
1	ZUG-01 – Ingiri Well fields and Pumping Station	March 2016
2	ZUG-01 – Bashi Reservoir	January 2016
3	Jvari-01 - Lia Well Fields	July 2018
4	Pot-02 - Poti WWTP	31 May 2018
5	Pot-02 - Poti WWTP	Updated in August 2020
6	GUD-02 – Construction of Reservoir and well fields	September 2019
7	GUD-02 – Construction of water supply and sewerage network	September 2019

- 99. All of the SSEMPs listed above are effective, mitigation measures are still relevant, no changes are required.
- 100. All SEMP were updated with risks associated with COVID-19 outbreak including all relevant mitigation measures.

6. GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

101. During the reporting period, close monitoring, guidance and communication between the DEPP, IPMO, consultant supervision team and contractors were improved, as suggested during the previous EMR, July-December 2021, to avoid non-compliances and improve the situation on construction sites within the USIIP / T4.

6.2 Opportunities for Improvement

102. During the next reporting period the tracking of actions to address non-conformances will be improved by PIU up to 100% out of current 87%. All non-conformances addressed will be reflected in the next SAEMR, July-December 2022.

7. SUMMARY AND RECOMMENDATIONS

7.1 Summary

- 103.** During the reporting period Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of USIIP on a regular basis.
- 104.** 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.
- 105.** The General Guideline for COVID-19 was also developed by the Government of Georgia specifically for the construction sector.
- 106.** An Emergency Management Plan (March 2020) was developed by SC/SAFEGE for prevention of employees against COVID-19.
- 107.** Environmental Monitoring Specialist of Safege, Mr. Shalva Bosikashvili conducted monitoring of project sites under T4 and developed Non-Conformance Notices were required. He also developed quarterly environmental monitoring reports based on the monthly reports submitted by Contractor and environmental site inspections and submitted to UWSCG.
- 108.** The monitoring activities included monitoring of compliance of construction activities to the IEE/EMP and SEMP requirements under JVA-01 and GUD-02 sub- projects.
- 109.** Environmental Specialist of USIIP Ms. Kate Chomakhidze performed monitoring of contractor's performance in accordance with the requirements of approved IEE/EMPs, SEMP, 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 monitoring results.
- 110.** Non-Conformance Notice has been issued to the contractor by the environmental specialist of UWSCG/USIIP. Mitigation measures in order to reduce major environmental impacts have been instructed to CCs during the monitoring visits as well. The Contractor is required to undertake parametric measurements Semiannually and observations on air quality, noise and socio-cultural resources.

7.2 Recommendations

- 111.** During the reporting period, January-June 2022, the USIIP/T4 of Investment Program was implemented in accordance with the requirements of ADB - SPS 2009 and the National Legislation.
- 112.** More detailed recommendations for the implementation of T4 during the next reporting period July-December 2022 are provided in the Table 19 below:

Table 19: Recommendations to Address Environmental Issues under JVA-01 and GUD-02 sub-projects.

Recommendations JVA-01 and GUD-02 sub-projects	
Recommendations	Implementation status and date
JVA-01	
Proper warning and safety signs should be provided at the perimeter of the Open pit	Instructions are given to contractor to improve the situation and to conduct following mitigation measures by the end of July 2022
GUD-02	
To prevent local community from entering the construction site, a temporary protective fence and gate should be immediately arranged around the entire perimeter of the construction site, and relevant warning and information signs should be posted to inform the local population	There is no need for construction of the temporary fencing, since the new permanent fence and lockable gate will be constructed in the 3Q of 2022
Develop a reinforcement plan and take appropriate protective measures around the entire perimeter of the Gudauri reservoir with an appropriate technical solution to prevent the danger of land collapse Proper restoration work should be carried out after the construction is completed	Reinstatement plan will be proposed by Supervision consultants and relevant reinstatement works will be carried out As Soon As Possible.
Noise from the construction activities should not cause disruption and nuisance to nearby community and other sensitive receptors (i.e. school, hospitals).	Instructions are given to contractor to improve the situation and to conduct following mitigation measures by the end of July 2022: Plan activities in consultation with SC and IPMO/UWSCG so that activities with the greatest potential to generate noise are planned during periods of the day that will result in

Recommendations JVA-01 and GUD-02 sub-projects	
	<p>least disturbance</p> <p>Noisy construction activities will be avoided during night time</p> <p>All construction equipment and vehicles shall be well maintained, regularly inspected for noise emissions</p> <p>Impose speed limits on construction vehicles to minimize emissions along areas where sensitive receptors are located (i.e. temples, hospitals, schools, houses)</p> <p>Install noise barriers (e.g., panels, curtains, or partitions) to reduce the emission of engine noise</p> <p>Conduct meetings with population and provide information related to schedule of construction activities and noise caused by the project activities.</p>

- 113.** Conduct Post-Construction Environmental Audit will be carried out under the ZUG-01 sub-project by the September 2022 and reflect findings of the audit report in the next Semi-Annual EMR of July-December 2022.
- 114.** Conduct monitoring of Environmental quality measurements of Ambient Noise and Air quality under JVA-01 sub-project at the nearest sensitive receptors in September 2022.

Table 20: The Specific Plan for Environmental Measurement under JVA-01 sub-project

Parameters	Quarterly measurement
Dust	September 2022

Parameters	Quarterly measurement
Vibration	September 2022
Carbon monoxide	September 2022
Nitrogen dioxide	September 2022
Sulfur dioxide	September 2022
Noise	September 2022

115. Conduct monitoring of Ambient Noise and Air quality under GUD-02 project at the nearest sensitive receptors (residential houses) in September 2022.

Table 27: The Specific Plan for Environmental Measurement under GUD-02 Project

Parameters	Quarterly measurement
Dust	September 2022
Vibration	September 2022
Carbon monoxide	September 2022
Nitrogen dioxide	September 2022
Sulfur dioxide	September 2022
Noise	September 2022

Annexes

ANNEX A: ENVIRONMENTAL MONITORING DATA of NOISE and AMBIENT AIR QUALITY GUD-02, JUNE 17 2022



China Nuclear Industry 23 Construction Co., Ltd
Construction of Sewage Collection and Water Supply Systems in Gudauri
(UWSCG-ICB-GUD-02-2018)

The Contractor

Address: #5 Java street, 0180 Tbilisi, Georgia
Telephone: +995 571246556

Safege Ingenieurs Conseils/Engineering Solution LLC as sub-consultant
Mr. Victor Hruska, Team Leader
Medea Chakhava #9
0177 Tbilisi, Georgia

[your reference/date]	[our reference/date]	[your contact]	[e-mail]
GUD02-399/OUT-VH 2022-06-14	GUD02-CNI23-ENG-22030 2022-06-19	Luo Ke	cni23georgiaofficial@gmail.com

Construction of Sewage Collection and Water Supply Systems in Gudauri
(UWSCG-ICB-GUD-02-2018)
Subject: Quarterly Environmental Parametric Measurement Report

Dear Mr. Victor,

We are sending Quarterly Environmental Parametric Measurement Report, please kindly find the attachment.

Yours sincerely

Contractor of Construction of Sewage Collection and Water Supply Systems in Gudauri

Mr. Luo Ke
Project Manager

Construction of Sewage Collection and Water Supply Systems in Gudauri (UWSCG-ICB-GUD-02-2018).

**Date of Commencement March 1 2019 Term of Work
Completion December 2022**

1. Introduction

The Government of Georgia wishes to improve and expand Water Supply and Sanitation (WSS) Services across urban centers by leveraging donor and private sector funds and has requested ADB to develop an investment program to be financed through a multi-tranche financing facility (MFF). The proposed Investment Program will specifically address basic urban infrastructure and services management in the provincial capitals and secondary towns. The Investment Program will be implemented in various tranches; each tranche containing technically feasible and economically viable subprojects developed by UWSCG and agreed with ADB.

The present tender considers the "Construction of Sewage Collection and Water Supply Systems in Gudauri".

2. Location of the project areas

Gudauri is a ski resort located on the south-facing plateau of The Greater Caucasus Mountain Range in Georgia, in the Stepantsminda District, along the Georgian Military Highway near the Cross Pass, 120 km to the north of the capital Tbilisi on the way to Kazbegi and two hours drive from the Tbilisi International Airport..

3. Regulatory Requirements

The environmental quality standards on the territory of Georgia are regulated by Decree No 297N of August 16, 2001 of the Minister of Labor, Health and Social Affairs of Georgia "On the approval of the environmental quality standards" (State Registration Code 470.230.000.11.119.004.920).

The following amendments were made to the above-mentioned decree:

1. Decree No 38/N of February 24, 2003 of the Minister of Labor, Health and Social Affairs of Georgia, SSM III, №16, 06.03.2002, Article 150
2. Decree No.251/N of the Minister of Labor, Health and Social Affairs of Georgia of September 15, 2006– SSMIII, №129, 20.09.2006, Article 1716
3. Decree No.351/N of the Minister of Labor, Health and Social Affairs of Georgia of December 17, 2007– SSMIII, №179, 18.12.2007, Article 1974
4. Decree No.304/N of the Minister of Labor, Health and Social Affairs of Georgia of September 18, 2009– SSMIII, №115, 22.09.2009, Article 1312

5. Decree No.98/N of the Minister of Labor, Health and Social Affairs of Georgia of April 14, 2010– SSMIII, №39, 14.04.2010, Article 622

6. Decree No.350/N of the Minister of Labor, Health and Social Affairs of Georgia of October 25, 2010 - SSMIII, №138, 26.10.2010, Article 2000

7. Decree No.01-24/N of the Minister of Labor, Health and Social Affairs of Georgia of May 17, 2012 – web-site, 17.05.2012.

3. Description of the work to be performed.

In accordance with the agreement concluded between the Construction Contractor and Naseto Group LLC, environmental quality analysis was carried out at various points in Gudauri.

Construction work has not yet been carried out, so all the measurement results are background. Background measurements were carried out at the sites of the future construction of the reservoir, pumping station and pipeline route.

4. Performed measurements and results

Gudauri is not a settlement where stationary observations of the quality of atmospheric air are carried out, therefore pollution data are not available.

4.1 Noise and vibration.

The measured noise and vibration are also background.

As a rule, the noise caused by the movement of equipment is reduced at some distance. Such a reduction has logarithmic properties. In the case of noise caused by construction work, the noise propagation scheme from the noise point is used, which can be determined as follows: Noise level 1 - Noise level 2 = $20 \log r_2 / r_1$, which means that when doubling the distance, the noise decreases by 6 dBA. .

Table 2: Noise levels

Distance from noise source, m	Calculation level of the noise Average value - dBa	Calculation level of the noise Maximum value - dBa
10	80	90
20	74	84
40	68	78
80	62	72
160	56	66
320	50	60

4.4 Air quality values

The quality indicators of the following components measured in the project area: air quality with total hydrocarbons, sulfur and nitrogen dioxide, carbon monoxide ,dust,noise and vibration by the executor The results of the accomplished quality measurements given in Annex1.

ჰაერის აზოტის და გოგირდის დიოქსიდით, ნახშირბადის მონოოქსიდით და
 ჯამური ნახშირწყალბადებით დაბინძურების გაზომვების შედეგები
 17.06.2022. 12³⁰ – 15⁴⁰

**Nitrogen and sulfur dioxide, carbon monoxide and total hydrocarbon air pollution
 measurement results on 17.06.2022. 12³⁰ – 15⁴⁰**

№	გაზომვის წერტილის Measurement point		გაზომვის შედეგები მგ/მ ³ Measurement results mg/m ³			
	ადგილ მდებარეობა Locastion	კოორდი- ნატები Coordinates	აზოტის დიოქსიდი nitrogen dioxide	გოგირდის დიოქსიდი sulfur dioxide	ნახშირბადის მონოოქსიდი carbon monoxide	ჯამური ნახშირწყალბ ადები total hydrocarbon
1	გუდაური, სატუმბო სადგური. Gudauri, Pumping station	38T0458893 4702408	0.007	<0.01	0,21	<0.1
2	გუდაური, რეზერვუარი. Gudauri, Reservoir	38T0457008 4703113	0.009	<0.01	0,25	<0.1
3	გუდაური, ტრასა. Gudauri, Track	38T0457187 4702170	0.021	<0.01	0,59	<0.1

"ჩაინა ნუკლეარ ინდასტრი 23 კონსტრაქშენ კო"-ს ფილიალი საქართველოში
 "Georgia Branch of China Nuclear 23 Consturction Company Co.,Ltd"
 ჰაერის მტვერით დაზინბურების, ხმაურის და ვიბრაციის გაზომვების შედეგები
 17.06.2022. 12⁰⁰ – 15⁰⁰

Dust air pollution, noise and vibration measurements on 17.06.2022. 12⁰⁰ – 15⁰⁰

№	გაზომვის წერტილის Measurement point		გაზომვის შედეგები Measurement results							
	ადგილ მდებარეობა Locastion	კოორდი- ნატები Coordinates	ხმაური A _{max} დბ Noise A _{max} db	ვიბრო სიქარე Vibro Speed		ვიბრო აქარება Vibro acceleration		მტვერი მგ/მ ³ Dust mg / m ³		
				მმ/წმ mm/s	დბ db	მ/წმ ² m/s ²	დბ db	Pm _{2.5}	Pm ₁₀	Total
1	გუდაური, სატუმბო სადგური. Gudauri, Pumping station	38T0458893 4702408	48,6	<0.1	<66	<0.1	<100	0.011	0.016	0.019
2	გუდაური, რეზერუარი. Gudauri, Reservoir	38T0457008 4703113	47,4	<0.1	<66	<0.1	<100	0.009	0.015	0.017
3	გუდაური, ტრასა. Gudauri, Track	38T0457187 4702170	65,8	<0.1	<66	<0.1	<100	0.034	0.039	0.043

გაზომვის დროს გამოყენებულია ხელსაქვები:/During measurement tools used:

ხმაური/Noise - Mini Sound Level Meter N05CC;

ვიბრაცია/Vibration- Smart Sensor @ AR63B Vibration Meter;

დამტვერიანობა/ Dust- Portable Dust Detector model LB-HD08

და Gasella Mikro Dust Pro (თვითკალიბრაცია წულფვანი და ოპტიკური ფილტრით./Self-calibration zero and optical filter.). აზოტის დიოქსიდის და ნახშირბადის მონოოქსიდის - nitrogen dioxide and carbon monoxide - შიგნით CO/NO₂;

ჯამური ნახშირწყალბადების - total hydrocarbon MiniRae 7600;

გოგირდის დიოქსიდის - sulfur dioxide – WASP-XM-E-SO₂.

2001 წლის 16 აგვისტოს, საქართველოს შრომის, ჯანმრთელობისა და სოციალური დაცვის მინისტრის ბრძანება №297/ნ, გარემოს ხარისხობრივი მდგომარეობის ნორმების დამტკიცების შესახებ: / August 16, 2001, the Ministry of Labor, Health and Social Affairs of Georgia №297 / N, approval environmental quality of the norms:

დამტვერიანობის ნორმა შეადგენს 0.5 მგ/მ³; / Dust norm is 0.5 mg / m³;

აზოტის დიოქსიდის ნორმა შეადგენს 0.2 მგ/მ³; / nitrogen dioxide norm is 0.2 mg / m³;

გოგირდის დიოქსიდის ნორმა შეადგენს 0.5 მგ/მ³; / sulfur dioxide norm is 0.5 mg / m³;

ნახშირბადის მონოოქსიდის ნორმა შეადგენს .5 მგ/მ³; / carbon monoxide norm is .5 mg / m³;

ჯამური ნახშირწყალბადების ნორმა შეადგენს 1 მგ/მ³; / total hydrocarbon norm is .1 mg /m³;

ვიბროსიჩქარის ნორმა შეადგენს 112 დბ; / Vibro-speed norm is 112 db;

ვიბროაჩქარების ნორმა სპეციალური დამცავი საშუალებების გამოყენების გარეშე - 126 დბ./Vibro acceleration norm special protective outlets without using - 126 db.

დირექტორი:
Director

ტექნიკური შემსრულებელი
Technical Contractor



ნ. გაბუნია
N. Gabunia

ს. ხაცავა
S. Khatsava

ANNEX B: PHOTOS OF JVA-01, POT-01, POT-02 and GUD-02 SUB-PROJECTS

PHOTOS: JVA-01

Construction of Water Supply Network in Jvari, JVA-01 Sub-project

Photo N1, N 2 Pumping Station



**Construction of Water Supply and Sewerage Network in Gudauri, GUD-02, Photo
N1, N2, N3
Gudauri Reservoir**



Gudauri Well fields, Photo N4, N5



ANNEX C: NON-COMPLIANCE NOTICE (GUD-02), 24 MAY 2022



30th May 2022

TO: China Nuclear Industry
23 Construction CO., LTD
Attn. Luo Ke
Project Manager

<p><u>Our Ref.: GUD 02 -395/OUT -VH</u></p> <p><u>Contract: UWSCG-ICB-GUD-02-2018</u></p> <p><u>Subject: Supervision of Construction of Sewage Collection and Water Supply Systems in Gudauri – Non-Compliance Note for Gudauri May 2022</u></p>

Dear Sir,

Please find attached the Non-Compliance Notice regarding construction of Sewage Collection and Water Supply Systems in Gudauri.

You are notified to take immediate measures for remedial of the situation and assure normal working conditions on site.

For the Engineer

Victor Hruska
Team Leader

Urban Services Improvement Investment Program (Project 4)



SAFEGE-with Engineering Solutions LLC as sub-consultant – ADD ADDRESS
SAFEGE Europe & Africa – Gulledelle 92, 1200 Brussels, BELGIUM – Tel: +32 2 739 46 90 – Fax: +32 2 742 38 91
VAT N° (BE) 0467 395 488 RPM Brussels – Bank: KBC – IBAN: BE 49 4731 0518 8171 – BIC: KREDBEBB
SAFEGE Headquarters – 15/27 rue du Port, Parc de l'île, 92000 Nanterre, FRANCE
Tel: +33 1 46 14 71 00 – Fax: +33 1 47 24 72 02 – Web: www.safege.com



Non-Compliance Notice

Project: Construction Supervision (under USIIP, Tranche 4 Projects), UWSCG/USIIP/QCBS/02-2014	Non-compliance Notice Gudauri
Contract No: UWSCG-ICB-GUD-02-2018	
Contractor: China Nuclear Industry 23 Construction Co., Ltd	
Reference:	
This notice is to advise the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented urgently .	
<u>GENERAL COMMENT FOR ALL SITES:</u> Site internally should be arranged properly and cleaned regularly. All construction materials and wastes should be properly segregated and stored adequately, Oil spill response kits should be placed at the appropriate locations. Refuelling station should be equipped with the spill kit and fire relevant fighting equipment; drip tray should be used for fuel spillage prevention. Relevant traffic signs and flagmen should control traffic movement properly. H&S standards and rules should be addressed and implemented.	
<u>NON-COMPLIANCE IN Gudauri</u>	
<u>Construction of Sewage Collection and Water Supply Systems in Gudauri</u>	
<ul style="list-style-type: none"> - Pipes, gravel and precast concrete scattered uncontrolled, storing is not marked with warning tape 	
	
All these conditions have to be remedied within 10 days by the prime Contractor China Nuclear Industry 23 Construction Co., Ltd	
Date of site visit: 24.05.2022	
Shalva Bosikashvili - Environmental specialist - "SAFEGE"	
Ketevan Chomakhidze - Environmental specialist "UWSCG"	

NON-COMPLIANCE NOTICE, GUD-02, 23 JUNE 2022

Non-Compliance Notice, 23 June 2022

Project: Urban Services Improvement Investment Program, Georgia	Non-compliance Notice Gudauri
Contract No: UWSCG- ICB-GUD-02-2028-GUD-02	
Contractor: China Nuclear Industry 23 Construction Co., Ltd	
Reference: Construction of Water Supply and Sewerage System in Gudauri	
This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented urgently .	
Gudauri Reservoir	
<ul style="list-style-type: none">- Develop a reinforcement plan and take appropriate protective measures around the entire perimeter of the Gudauri reservoir with an appropriate technical solution to prevent the danger of land collapse, see Photo N1- Proper reinstatement activities should be carried out after completion of the construction works and reservoir must be cleaned of gravel and covered with a top soil, Photo N2- In order to ensure the safe movement of the workforce and the personnel employed on the site, near the old reservoir and other objects on the construction site, proper bridges/ladder that meet the standards should be arranged (immediately), Photo N3	
Gudauri Well filled	
<ul style="list-style-type: none">- To prevent local community from entering the construction site, a temporary protective fence and gate should be immediately arranged around the entire perimeter of the construction site, and relevant warning and information signs should be posted to inform the local population, please see Photo N1;- The construction site must be organized and cleaned regularly, Please see Photo N2;- Proper waste management should be implemented; Household and hazardous waste must be stored separately with appropriate labels, please see Photo N3;- Concrete washing areas should be arranged in compliance with relevant regulations; and in case of soil contamination with concrete, the concrete layer must be removed and placed in accordance with the regulations, please see Photo N4;- In case of oil spillage on the soil, the contaminated layer should be removed and remedial works should be carried out, please see Photo N5;- Different types of construction materials should be stored separately, please see Photo N6;- There should be a log of complaints/registration at the construction site.	
Gudauri Reservoir	



Photo N1



Photo N2



Photo N3

Gudauri Well Fields



Photo N1



Photo N2



Photo N3



Photo N4



Photo N5



Photo N6

All these conditions have to be remedied within seven days (by the end of June 2022) by the prime Contractor (China Nuclear Industry 23 Construction Co., Ltd)

Date: 23.06.2022

Maka Goderdzishvili, Head, Department of Environmental Protection and Permits of UWSCG

Ketevan Chomakhidze
UWSCG/USIIP Environmental Specialist

NON-COMPLIANCE NOTICE, JVA-01, 11 APRIL 2022



12th April 2022

TO: AS Inshaat-N
Att. E. Aliev
Contractor's Representative

Our Ref.: JVARI-205/OUT-VH

Contract: P43405-ICB-JVARI-01

Subject: Supervision Jvari Water Supply Contract – Non-Compliance Notice Jvari April 2022

Dear Sir,

Please find attached the Non-Compliance Notice - Jvari.

You are notified to take immediate measures for remedial of the situation and assure normal working conditions on site.

For the Engineer

Victor Hruska
Team Leader

Urban Services Improvement Investment Program (Project 4)



SAFEUGE-with Engineering Solutions LLC as sub-consultant – ADD ADDRESS

SAFEUGE Europe & Africa – Guledelle 92, 1200 Brussels, BELGIUM – Tel: +32 2 739 46 90 – Fax: +32 2 742 38 91

VAT N° (BE) 0467 395 488 RPM Brussels – Bank: KBC – IBAN: BE 49 4731 0518 8171 – BIC: KREDBEBB

SAFEUGE Headquarters – 15/27 rue du Port, Parc de l'île, 92000 Nanterre, FRANCE

Tel: +33 1 46 14 71 00 – Fax: +33 1 47 24 72 02 – Web: www.safeuge.com



Non-Compliance Notice

Project: Construction Supervision (under USIIP, Tranche 4 Projects), UWSCG/USIIP/QCBS/02-2014	non-compliance Notice JVARI-01
Contract No: P43405-DC-JVA-01	
Contractor: AZ-Inshaat-N	
Reference:	

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

GENERAL COMMENT FOR ALL SITES:

Site internally should be arranged properly and cleaned regularly. All construction materials and wastes should be properly segregated and stored adequately, Oil spill response kits should be placed at the appropriate locations. Refuelling station should be equipped with the spill kit and fire relevant fighting equipment; drip tray should be used for fuel spillage prevention. Relevant traffic signs and flagmen should control traffic movement properly. PPE wearing is obligatory at the construction site.

NON-COMPLIANCE IN JVARI

- Open pit
- Construction waste alongside the road
- Unsafe work on height

Open pit



Construction waste alongside the road



Unsafe work on Height



All these conditions have to be remedied within 14 days by the prime Contractor AZ-Inshaat-N

Date of site visit: 11.04.2022

Shalva Bosikashvili - Environmental specialist - "SAFEGE"

Ketevan Chomakhidze - Environmental specialist "UWSCG"

NON-COMPLIANCE NOTICE (JVA-01), 4 MAY 2022



5th May 2022

TO: AS Inshaat-N
Att. E. Aliev
Contractor's Representative

Our Ref: JVARI-207/OUT-VH

Contract: P43405-ICB-JVARI-01

**Subject: Supervision Jvari Water Supply Contract – Non-Compliance Notice Jvari
May 2022**

Dear Sir,

Please find attached the Non-Compliance Notice - Jvari.

You are notified to take immediate measures for remedial of the situation and assure normal working conditions on site.

For the Engineer

Victor Hruska
Team Leader

Urban Services Improvement Investment Program (Project 4)



SAFEGE-with Engineering Solutions LLC as sub-consultant – ADD ADDRESS

SAFEGE Europe & Africa – Gulledele 92, 1200 Brussels, BELGIUM – Tel: +32 2 739 46 90 – Fax: +32 2 742 38 91


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Non-Compliance Notice

Project: Construction Supervision (under USIIP, Tranche 4 Projects), UWSCG/USIIP/QCBS/02-2014	non-compliance Notice JVARI-01
Contract No: P43405-DC-JVA-01	
Contractor: AZ-Inshaat-N	
Reference:	
<p>This notice is to advise the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented urgently.</p> <p><u>GENERAL COMMENT FOR ALL SITES:</u> Site internally should be arranged properly and cleaned regularly. All construction materials and wastes should be properly segregated and stored adequately, Oil spill response kits should be placed at the appropriate locations. Refuelling station should be equipped with the spill kit and fire relevant fighting equipment; drip tray should be used for fuel spillage prevention. Relevant traffic signs and flagmen should control traffic movement properly. PPE wearing is obligatory at the construction site.</p> <p><u>NON-COMPLIANCE IN JVARI</u></p> <ul style="list-style-type: none">• Open pits; No hard barriers; No warning signs; No capping <p><i>Open pits; No hard barriers; No warning signs; No capping</i></p>	
	



All these conditions have to be remedied within 14 days by the prime Contractor AZ-Inshaat-N

Date of site visit: 04.05.2022

Shalva Bosikashvili - Environmental specialist - "SAFEGE"

Ketevan Chomakhidze - Environmental specialist "UWSCG"

NON-COMPLIANCE NOTICE (JVA-01), 14 JUNE 2022



15th June 2022

TO: AS Inshaat-N
Att. E. Aliev
Contractor's Representative

Our Ref: JVARI-210/OUT-VH

Contract: P43405-ICB-JVARI-01

Subject: Supervision Jvari Water Supply Contract – Non-Compliance Notice Jvari June 2022

Dear Sir,

Please find attached the Non-Compliance Notice - Jvari.

You are notified to take immediate measures for remedial of the situation and assure normal working conditions on site.

For the Engineer

Victor Hruska
Team Leader

Urban Services Improvement Investment Program (Project 4)



SAFEGE-with Engineering Solutions LLC as sub-consultant – ADD ADDRESS
SAFEGE Europe & Africa – Guledelle 92, 1200 Brussels, BELGIUM – Tel: +32 2 739 46 90 – Fax: +32 2 742 38 91
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Non-Compliance Notice

Project: Construction Supervision (under USIIP, Tranche 4 Projects), UWSCG/USIIP/QCBS/02-2014	non-compliance Notice JVARI-01
Contract No: P43405-DC-JVA-01	
Contractor: AZ-Inshaat-N	
Reference:	

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

GENERAL COMMENT FOR ALL SITES:

Site internally should be arranged properly and cleaned regularly. All construction materials and wastes should be properly segregated and stored adequately, Oil spill response kits should be placed at the appropriate locations. Refuelling station should be equipped with the spill kit and fire relevant fighting equipment; drip tray should be used for fuel spillage prevention. Relevant traffic signs and flagmen should control traffic movement properly. PPE wearing is obligatory at the construction site.

NON-COMPLIANCE IN JVARI

- Leaking heavy equipment polluting soil

Leaking heavy Equipment





All these conditions have to be remedied within 14 days by the prime Contractor AZ-Inshaat-N

Date of site visit: 14.06.2022	
Shalva Bosikashvili - Environmental specialist - "SAFEGE"	
Ketevan Chomakhidze - Environmental specialist "UWSCG"	

ANNEX D: CORRECTIVE ACTION PLAN (GUD-02), 24 MAY 2022 (NCN Issued on 30 May 2022)



China Nuclear Industry 23 Construction Co., Ltd
Construction of Sewage and Water Supply Systems in Gudauri
(UWSCG-ICB-GUD-02-2018)

The Contractor

Address: #5 Java street, 0180 Tbilisi, Georgia
Telephone: +995 571246556

Safege Ingenieurs Conseils/Engineering Solution LLC as sub-consultant
Mr. Victor Hruska, Team Leader
Medea Chakhava #9
0177 Tbilisi, Georgia

[your reference/date]	[our reference/date]	[your contact]	[e-mail]
	GUD02-CNI23-ENG-22023 2022-06-03	Luo Ke	gudauri@cni23.com

Construction of Sewage and Water Supply Systems in Gudauri
(UWSCG-ICB-GUD-02-2018)
Subject: Reply to the Non-compliance Notice for Gudauri May 2022

Dear Mr. Victor Hruska,

After receiving the Non-compliance Notice for Gudauri May 2022, the Contractor immediately rectified the Non-compliance, Please refer to the attachment for details of the rectification.

Yours sincerely
Contractor of construction of the Sewage and Water Supply Systems in Gudauri

Mr. Luo Ke
Project Manager

Attachment:

GENERAL COMMENT FOR ALL SITES:

Site internally should be arranged properly and cleaned regularly. All construction materials and wastes should be properly segregated and stored adequately. Oil spill response kits should be placed at the appropriate locations. Refuelling station should be equipped with the spill kit and fire relevant fighting equipment; drip tray should be used for fuel spillage prevention. Relevant traffic signs and flagmen should control traffic movement properly. H&S standards and rules should be addressed and implemented.

NON-COMPLIANCE IN Gudauri

Construction of Sewage Collection and Water Supply Systems in Gudauri

- Pipes, gravel and precast concrete scattered uncontrolled, storing is not marked with warning tape



The rectification photos:



Relevant materials have been cleaned up, and we will educate and train workers to avoid similar problems occurs again.

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



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 doctor's 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 spent 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

For further information, please contact:

☎ 15 05

☎ 116 001

StopCoV.ge

The job of builder 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 persons/pets for the past 14 days (they must be self-isolated/quarantined as per the rules);
- 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 IEPH, I. Sakrebulo 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 IEPH, I. Sakrebulo 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 mats 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-cleaning 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 rearrangement of personal protective equipment and disinfectants.

- 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.



ANNEX F: EMERGENCY MANAGEMENT PLAN



SAFEGE



Georgia: CONSTRUCTION SUPERVISION CONSULTANCY SERVICES
FOR URBAN SERVICES IMPROVEMENT INVESTMENT PROJECT (USIIP)

Financed by the Asian Development Bank and Government of Georgia

COVID-19 Emergency Management Plan in Construction Sector



Prepared by: SAFEGE - Supervision Consultant
Tbilisi, Georgia

For: Ministry of Regional Development & Infrastructure (MRDI)
United Water Supply Company of Georgia (UWSCG)

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1. PREAMBLE

1.1 Project Description

- 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. UWSOG is a 100% state-owned company.
- 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 wastewater treatment plants.
- Tranche 4 of the Investment Program includes:
 - Construction of Water Supply System in Zugdidi (Sub-01) - Contract No: P43405-ICB-2ag-01
 - Construction of Sewerage System in Poti (Pot-01) - Contract No: P43305-ICB-Pot-01
 - Construction of Wastewater Treatment Plant in Poti (Pot-02) - Contract No: P43405-ICB-Pot-02
 - Construction of Water Supply System in Jvari (Jvari-01) - Contract No: P43405-ICB-Jvari-01
 - Construction of Sewage Collection and Water Supply System in Gushki (UWSOG-ICB-GUS-02-2520-GUS-02)
- Construction of Water Supply System in Zugdidi (2016-01). The project consists of the construction of 1 water supply pumping station – 1,170 m³, construction of new reservoirs (3,300 m³); distribution network – laying of approximately 220 km water supply pipelines; approximately 15 km transmission main; wells – drilling of 20 drinking water wells.
- The contract 2016-01 was signed on October 26, 2016 with AS Inshvaq, J, LLC (Armenian), the construction works were completed in September 2018 and further extended until June 2020 due to the additional construction works under V084 and V088: Construction of Additional Sewerage Network Connections and Sewerage Pumping Stations of Anaklia.
- V084 and V088 under the 7UG-01 sub-project include:

Connection of residential houses

- Connection of residential houses in Garmukhuri resort to main sewer line: l=11407m, n=202 houses;
- Connection of residential houses in Anaklia resort to main sewer line: l=5778 m, n=212 houses;
- Installation of pumps of previously constructed Pumping Stations with electrical connection and installation of automation cabinets for them – 20 pieces; Purchase and installation of pumps with automatics 4 pieces.
- Connection of two apartment buildings of the Ministry of Internal Affairs with self-flowing corrugated pipeline – d=200 mm, l=221.

Installation of Pump Stations

- Installation of # 22 Pump Stations (PS) and connection to existing pressure pipe (d=160 mm) for backflow to new Sewerage Treatment Plant in Garmukhuri.
- Installation of # 33 Pump Stations (PS): Arrangement of pressured pipeline (d= 355 mm, l= 1813m) and connection to existing l= 2600m same pipe; Arrangement ramp connection on the main channel with a steel casing pipe (d=630mm / 5mm, l= 21m) and 13 overpasses above the d=1m small drainpipes with a steel casing pipe (d=630mm / 5mm, l= 8m) in Anaklia.

Rehabilitation of Water Supply and Sewerage Distribution Network

- Installation of a new sewer pressure pipe (d= 160 mm, l= 205m) with a steel casing pipe (d=325mm / 6mm, l= 6m) to connect the "Anaklia" Hotel, crossing the ditch and road.
- The existing water supply – d=250mm rehabilitation and replacement was carried out using d= 200 mm, l= 340m of the new pipeline.

- Construction of Sewerage System in Poti (POT-01). Pot-01 project includes the construction of 112.4 km of new sewerage pipes, and construction of 28 sewage pumping stations. United Water Supply Company of Georgia signed a contract with TAIHAL Group BV on 20 December 2017. The final date of completion of the contract is July 31, 2020.
- Construction of Wastewater Treatment Plant in Poti (POT-02). The project comprises of the construction of new Wastewater Treatment Plant with the capacity of 11,663 m³/day for Poti. The contract for construction of WWTP in Poti was signed on December 21, 2017 with JV "Meffer - EMIT" comprised by "Ludwig Meffer Hoch – and Tiefbau GmbH & Co. KG (Germany)" and "EMIT Group – CrocleMareImpiantiTecnologici S.r.l. (Italy)". The final date of completion of the contract is July 31, 2020.
- Construction of Water Supply System in Jvari (JVA-01). The major works to be implemented for rehabilitation and improvement of Jvari water supply system are following: construction of wells on the well field near the village (ac); installation of about 4 km long transmission pipeline; replacement of distribution pipes in the town; rehabilitation of existing reservoir or

construction of new one depending on results of detailed investigation; construction of new pump station.

10. The contract for implementation of IAA-01 was signed on January 17, 2017 with AS Inshaat-N, LLC (Azerbaijan). The date of completion of the contract is April 2020 and further extended to September 2020.
11. Construction of Sewage Collection and Water Supply System in Gudauri (GUD-02). The major works to be implemented for rehabilitation and improvement of Gudauri sewage collection and water supply system, including construction of well field, Raw Water Reservoir of 500m³, water pipes and sewage collection system.
12. The contract for implementation of GUD-02 sub-project was signed on 4 January 2019 with "China Nuclear Industry 23 Construction Co." LTD (CNIC3). The date of completion of the contract is April 2021.
13. Supervision Consultant for T4 of USIP. Supervision Consultant for Tranche 4 of USIP is "SAFEGE France with Engineering Solution LLC Georgia".

1.2 Coronavirus

14. Coronaviruses are a large family of viruses that cause respiratory infections. These can range from the common cold to more serious diseases. Coronavirus (COVID-19) is a disease caused by a new form of coronavirus. It was first reported in December 2019 in Wuhan City in China.
15. Health authorities around the world believe the coronavirus (COVID-19) is spread from close contact with an infected person, mostly through face-to-face contact or between members of the same household. The coronavirus (COVID-19) is spread by people with symptoms when they cough or sneeze. People may also pick up the coronavirus (COVID-19) from surfaces contaminated by a person with the infection.
16. Studies suggest that COVID-19 may persist on a surface for a few hours or up to several days. This may vary under different conditions such as the type of surface, temperature or humidity of the environment.
17. A coronavirus infection can cause mild to severe respiratory illness. The most common coronavirus (COVID-19) symptoms reported are:
 - Fever
 - Breathing difficulties and breathlessness
 - Cough
 - Sore throat
 - Fatigue or tiredness.
18. Coronavirus (COVID-19) is most likely to spread from person-to-person through:
 - Close contact with an infected person.
 - Touching objects or surfaces (such as door handles or tables) contaminated by a person with the infection.
19. Close contact means having face-to-face contact for more than 15 minutes with someone who has a confirmed case of coronavirus (COVID-19) – or alternatively sharing a closed space with them for more than two hours.
20. Close contact can happen in many ways, but examples include:
 - Living in the same household or household-like setting (for example, a boarding school or hostel)
 - Direct contact with the body fluids or laboratory specimens of a confirmed case
 - Being in the same room or office for two hours or more
 - Face-to-face contact for more than 15 minutes in some other setting such as in a car or a lift or sitting next to them on public transport.

2. PURPOSE

21. 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.
22. 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.
23. This Document have been developed to maintain the safe operation of construction sites, ensuring the safety of workers.
24. Following of these recommendations these is necessary to minimize and avoid the closure of any construction site.
25. The recommendations apply to all personnel attending on a building and construction site or project, whether management, staff, employees, contractors or service providers.

3. CONTROLLING RISKS ON SITE

26. 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
- Personnel Hoods
- Personal Protective Equipment
- Common Areas
- Inspections
- Travel
- General Communications
- Other measures
- Vulnerable workers

3.1 Screening workers coming to site

27. To minimize the risk of transmission of coronavirus (COVID-19) on site, employers must implement a two-phase screening process: phase one being an initial declaration and phase two ongoing daily screening.

28. 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 (COVID-19), or
- do not have anyone in their household who has symptoms consistent with COVID-19.

29. Once the initial declaration has been made by the worker, ongoing screening (phase 2) should be conducted for every worker prior to the start of their shift, asking to the best of their knowledge:

- have they been overseas in the last 14 days, or
- have they been in contact with anyone who has coronavirus (COVID-19), or
- have they been in contact with anyone who is currently being tested for coronavirus (COVID-19), or
- do they have anyone in their household who has symptoms consistent with COVID-19.

30. If a worker declares any of the above they may be required to self-isolate.

31. Screening should be conducted, whilst maintaining safe distances or over the phone before entering site, on a mobile app, via text message system, or other non-contact methods. It is advisable to have a system in place that limits the sharing of pens/ notebooks/ computers etc.

32. If a worker has recently had close contact with a confirmed case, they need to:

- self-isolate at home for a period of 14 days and follow the self-isolation Guidelines
- not attend work
- contact their employer
- seek urgent medical attention if they have symptoms consistent with COVID-19
- not return to work until they have been cleared by a medical practitioner.

33. 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.

3.2 Workplace Mapping

34. In the event of an employee being confirmed as having COVID-19, those who are potentially affected need to be quickly identified.

35. 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.

36. 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

37. Movement between sites, or areas within large sites, should be minimized as much as possible.

38. Where attending multiple sites is necessary (e.g. for HSRs, first aiders, emergency wardens) movement between sites should be recorded in the workplace mapping.

3.3 Physical Distancing

39. Physical distancing of at least 1.5-2 meters should be implemented wherever possible. Employers should consider each work task and whether there is a safe alternative way to undertake the work with an increased distance between workers.

- Mark safe distances in work, transit and break areas (e.g. on floors and walls).
- Consider different shift patterns to minimize the number of workers onsite (e.g. AM/PM shifts).
- 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.
- Plan for how physical distancing will be maintained during inclement weather (e.g. use of lunch or crib rooms and amenities).
- Install temporary physical barriers (e.g. fences, screens) between work areas, where appropriate.

40. 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
- Minimize the number of workers involved in activities that need to occur within 1.5 meters of each other
- Provide personal protective equipment (PPE) (e.g. gloves, masks, glasses).

41. Where essential work activities need to be undertaken in restricted spaces (e.g. lift shafts, personnel hoists, lifts), the number of workers working in the space should be minimized.

3.4 Hygiene

42. 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.

43. Employers should display health information in prominent locations on the construction site such as tea rooms, site offices, toilets, foyers, lifts and site entrances.

44. 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.

45. 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.

46. 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.

3.5 Shared tools, plant and equipment

47. Workers should avoid the shared use of tools, plant and equipment wherever possible. For example, drop saws, drills, grinders, ladders or elevating work platforms should not be used by more than one worker.

48. Where it is not possible to eliminate shared use:

- Provide cleaning products (e.g. alcohol spray or solution) where communal tools, plant and equipment are located.
- Keep cleaning products with tools, plant and equipment as they move around the site.
- Ensure all operators thoroughly wash or sanitize their hands before and after every use.
- Ensure all parts of tools, plant and equipment (e.g. including handles, handrails) are wiped down before and after use.

49. The shared use of phones, desks, offices, computers and other devices should also be avoided. Where this is not possible, these items should be regularly disinfected.

3.6 Cleaning and Disinfecting

50. 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, lift buttons, 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.

3.7 Personnel hoists

51. Workers using hoists and lifts may be at greater risk of exposure to coronavirus (COVID-19), because they are required to be in close contact with others and potentially contaminated surfaces.

52. Control measures to reduce the risk in personnel hoists should include systems of work, physical distancing, personal hygiene, PPE and cleaning.

53. It is acknowledged that not all hoists and lifts are identical in size or dimension, and have varying weight limits.

54. Where it is not possible to implement physical distancing measures in a personnel hoist, all other available control measures need to be used.

55. Control measures may include:

- Limiting worker movement between levels and floors on site, where it is possible and safe to do so.
- Reviewing which hoists are available for use on site and identifying if additional hoists can be used (for example where a partially occupied building is under construction, consider whether a residential lift be used solely for construction persons).
- Physical distancing of 1.5-2 m and hygiene systems to be followed when waiting for hoist, particularly on floors where worker volumes may increase during peak times (start, break, finish times). For example the ground floor, floors with meal or break out spaces and floors with bathroom amenities.

• Determine how many workers can use a hoist at any time (including hoist operator) taking into consideration the limited duration and additional control measures in these Guidelines.

• Mark out hoist floor, identifying:

- where workers stand
- what direction they are to face when in the hoist to avoid face to face contact
- Sequencing of entering and exiting

• Mark the hoist waiting area at each floor ensuring the physical distancing is maintained

• Regularly communicate and remind workers (e.g. through posters, digital displays):

- diagram of positioning of workers and sequence of worker entering
- not to touch walls/doors of the hoist
- advise the cleaning regime in place

• During peak periods have system in place to limit crowding of workers entering/exiting the work area. For example:

- developing a schedule for use of the hoist
- Staggering what floors workers are to use the hoists. Hoist operators may be exposed to additional risk. They should:

• Be provided with PPE that protects them from worker to worker transmission and from touching contaminated surfaces (e.g. face shield or surgical mask/P2 respirator and glasses).

• Perform frequent hand washing with soap and water or the application of hand sanitizer positioned within the hoist.

• Where possible, change hoist operator every two hours into a different role.

3.8 Personal Protective Equipment (PPE)

56. Employers must provide information, instruction and training on the safe use, decontamination and maintenance of any PPE provided.

57. 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.

58. 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.

3.9 Common areas

59. Common areas on sites such as the amenities pose risks, and these are reduced by ensuring the following measures are adopted.
60. The time spent in those areas must be limited so as not to breach time constraints recommended by DHHS.
61. 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.
62. Sanitization must occur between occupation of amenities by different work groups
63. Spread out furniture to ensure physical distancing measures in common areas
64. There must be an increased frequency of industrial grade cleaning/additional cleaning with specific emphasis on cleaning after each meal breaks in those areas
65. Workers electing to minimize amenity access
66. 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).

3.10 Inspections

67. 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.

3.11 Travel

68. 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.
69. Workers should ensure that for transport to and from work that they adhere to the hygiene and cleaning guidance, and the physical distancing
70. Work vehicles that are shared should be regularly cleaned to ensure adequate hygiene and protection.

3.12 General Communication

71. Ensuring everyone is informed is fundamental to managing this pandemic and ensuring the safe operations of construction sites.
72. 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.
73. 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.
74. 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.
75. 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.

3.14 Other measures

76. 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.

3.15 Vulnerable workers

77. 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)
78. Where practical, reasonable action should be taken to minimize vulnerable workers from conducting higher risk roles

4. Summary of recommendations and responsibility

Table of Summary of recommendations and responsibility

**ANNEX G: DISPOSAL OF WASTE UNDER GUD-02 SUB-PROJECT
DISPOSAL OF CONSTRUCTION WASTE, AGREEMENT BETWEEN THE GEORGIAN SOLID
WASTE MANAGEMENT COMPANY AND CONTRACTOR – LTD “CHINA NUCLEAR 23
CONSTRUCTION CO.”**

	<p style="text-align: center;">მომსახურების ხელშეკრულება</p> <p>ქ. თბილისი 29.11.2021წ</p> <p>შპს „საქართველოს მყარი ნარჩენების მართვის კომპანია“, მისი დირექტორის გიორგი შუხოშვილის სახით, (შემდგომში წოდებული როგორც „შემსრულებელი“) ერთის მხრივ და მეთორეს მხრივ შპს „ჩინა ნუკლეარ ინდასტრი 23 კონსტრუქშენ კო-ს ფილიალი საქართველოში“ წარმომადგენელი მისი დირექტორის ლუა ქვს სახით, (შემდგომში წოდებული როგორც „დამკვეთი“) მეორის მხრივ, საქართველოს მოქმედი კანონმდებლობისა და საწარმოს წესდების მე-8 მუხლის მე-8 პუნქტის შესაბამისად, ურთიერთ შეთანხმების საფუძველზე დებენ ხელშეკრულებას შემდეგზე:</p> <p>1.1 შემსრულებელი ორგანიზაცია 2017 წლის 08 თებერვლის N8-თ ბრძანების საფუძველზე, ახორციელებს ოპრიდიული და/ან ფიზიკური პირების მიერ წარმოქმნილი სამშენებლო და ნგრევის შედეგად მიღებული მყარი ნარჩენის განთავსების მომსახურებას შემსრულებლის ბალანსზე არსებული ქაზანების არასახიფათო ნარჩენების ნაგავსაყრელზე (შემდგომში – მომსახურება).</p> <p>მუხლი 2. ხელშეკრულების პირობები</p> <p>2.1 შემსრულებელი ვალდებულია დროულად და ხარისხიანად მოემსახუროს დამკვეთს და უზრუნველყოს ხელშეკრულების 1.1 პუნქტში აღნიშნული მომსახურების გაწევა 2021 წლის 31 დეკემბრის ჩათვლით.</p> <p>მუხლი 3. მხარეთა უფლება-მოვალეობები</p> <p>3.1 შემსრულებლის უფლება-მოვალეობები:</p> <p>3.1.1 დროულად და ხარისხიანად განახორციელოს 1.1 მუხლში აღნიშნული მომსახურება.</p> <p>3.1.2 მომსახურების გაწევისას დაიცვას საერთაშორისო სტანდარტებითა და ტექნიკური რეგლამენტებით განსაზღვრული პირობები.</p> <p>3.1.3 ხელშეკრულებით განსაზღვრულ ვადაში დამკვეთისაგან მოითხოვოს მომსახურების ღირებულების დროულად გადახდა.</p> <p>3.1.4 დამკვეთისაგან მოითხოვოს წინამდებარე ხელშეკრულების პირობების დაცვა.</p> <p>3.2 დამკვეთის უფლება-მოვალეობები:</p> <p>3.2.1 ხელშეკრულების მოქმედების პერიოდში მოითხოვოს შემსრულებლისაგან წინამდებარე ხელშეკრულების პირობების დაცვა.</p> <p>3.2.2 ხელშეკრულებით განსაზღვრულ ვადაში და პირობებით გადაუხადოს შემსრულებელს მომსახურების ღირებულება.</p> <p>3.2.3 შემსრულებლის კუთვნილ არასახიფათო ნარჩენების ნაგავსაყრელზე ნარჩენის შემოტანა უზრუნველყოს სახანძრო და უსაფრთხოების ნორმების დაცვით.</p> <p>მუხლი 4. ანგარიშსწორება და ხელშეკრულების ღირებულება</p> <p>4.1 1 (ერთი) ტონა ოპრიდიული და/ან ფიზიკური პირების მიერ წარმოქმნილი სამშენებლო და ნგრევის შედეგად მიღებული მყარი ნარჩენის განთავსების მომსახურების ღირებულება შეადგენს 10 (ათი ლარი) ლარს დღ-ს ჩათვლით დამკვეთი, შემსრულებლის მიერ გასაწევი მომსახურების შესაბამის ანაზღაურებას უზრუნველყოფს არასახიფათო ნარჩენების ნაგავსაყრელზე, ყოველთვიურად ფაქტურად შეტანილი ნარჩენის საერთო მოცულობის შესაბამისად.</p>
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4.2 დამკვეთი ვალდებულია ჩარიცხოს თანხა შემსრულებლის საბანკო ანგარიშზე შესაბამისი ანგარიშ-ფაქტურის ატვირთვიდან 10 (ათი) კალენდარულ დღეში.

4.3 შემსრულებლის მიერ წინამდებარე ხელშეკრულებით ნაკისრი ვალდებულებების შესრულების შემდეგ მხარეები ადგენენ ნარჩენების განთავსების აქტს, რაც ადასტურებს შემსრულებლის მიერ ნაკისრი ვალდებულებების გეროვნად შესრულებას.

4.4 შემსრულებლის მხრიდან ნარჩენების განთავსების აქტს ხელს აწერს შემსრულებლის სტრუქტურული ერთეულის - რეგიონული მართვის დეპარტამენტის თანამშრომელი შესაბამის რეგიონში.

მუხლი 5. ხელშეკრულების მოქმედების ვადა და მისი შეწყვეტის წესი

5.1 წინამდებარე ხელშეკრულება ძალაში შედის მხარეთა მიერ მისი ხელმოწერის მომენტიდან და მოქმედებს მხარეთა მიერ ნაკისრი ვალდებულებების სრულად და გეროვნად შესრულებამდე - 2021 წლის 31 დეკემბრის ჩათვლით.

5.2 ხელშეკრულების ვადამდე შეწყვეტა მხარეებს არ ათავისუფლებს ხელშეკრულების შეწყვეტამდე შესასრულებელი ვალდებულების შესრულების მოვალეობისაგან.

მუხლი 6. სადავო საკითხების მოგვარება

6.1 დამკვეთსა და შემსრულებელს შორის წინამდებარე ხელშეკრულების რეალიზაციისას წარმოშობილი სადავო საკითხები წესრიგდება მხარეთა შეთანხმებით, ხოლო შეთანხმების მუდღეობის შემთხვევაში სადავო საკითხს განიხილავს სასამართლო.

მუხლი 7. დასკვნითი დებულებები

7.1 წინამდებარე ხელშეკრულების ყველა მუხლი და დანართი წარმოადგენს მის განუყოფელ ნაწილს. ხელშეკრულებაში ცვლილების შეტანა შეიძლება მოხდეს მხარეთა შეთანხმებით მხოლოდ წერილობით.

7.2 ხელშეკრულების მხარეები თანხმდებიან მასზე, რომ იმ შემთხვევაში, თუ შემსრულებელი ორგანიზაციის 2017 წლის 08 თებერვლის N8-ო ბრძანების დანართში, რომლითაც რეგულირდება შესატანი ნარჩენის სახეობები და საფასური შევა რაიმე სახის ცვლილება, ხელშეკრულება დაკორექტირდება შესაბამისად.

7.3 წინამდებარე ხელშეკრულება შედგენილია 2 (ორი) თანაბარი იურიდიული მალის მქონე ეგზემპლარად ქართულ ენაზე. ერთი ეგზემპლარი გადაეცემა დამკვეთს, ხოლო ერთი ეგზემპლარი ინახება შემსრულებელთან.

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TO BRA

შეხლი 8. მხარეთა რეკვიზიტები და ხელმოწერები:

შემსრულებელი:

შპს „საქართველოს მყარი ნარჩენების მართვის კომპანია“, იურიდიული მის: ქ. თბილისი, ანა პოლიტკოვსკაიას ქ. N14 მე-3 სართული, საიდენტიფიკაციო კოდი: 404942470, საბანკო რეკვიზიტები: ბანკი: სს „თიბისი ბანკი“, ბანკის კოდი: TBCBGE22, ანგარიშის ნომერი: GE51TB7161936080100005.

ხელმოწერა



გიორგი შუბოშვილი

დამკვეთი:

შპს „ჩაინა ზეკლერ ინდასტრი 23 ტონსტრატმენ კო-ს ფილიალი საქართველოში“ იურიდიული მისამართი: საქართველო, ქ. თბილისი, ნაძალადევის რაიონი, ჯაგის ქ. N 5 საიდენტიფიკაციო კოდი: 404952789

ხელმოწერა



ლუო



HAZARDOUSE WASTE DISPOSAL SERVICE AGREEMENT BETWEEN THE LTD “CHINA NUCLEAR INDUSTRY 23 CONSTRUCTION CO.” AND MEDICAL TECHNOLOGY.

Waste Disposal Service Agreement #21/06-1

On residuals utilization (placement) of the overdue, inapt, discounted and damaged products.

Tbilisi

21st of June 2021

On the one hand * Georgia Branch of China Nuclear Industry 23 Construction Co., Ltd* Code# 404952789, represented by director Luo Ka, hereinafter the Customer and on the other hand “Medical Technology” Ltd., in the face of its director Gia Goghaidze, hereinafter the Executor, conclude the present Agreement on the following:

1. Subject of the Agreement

- 1.1 The Customer orders and the Executor commit to the obligation to provide services and utilize the overdue, inapt, discounted, damaged production such as: accumulators, recycled oil and other hazardous waste for the projects in Gudauri area.
- 1.2 The types, volumes, service cost and other terms vary with each order according to the Appendix 1 Price Schedule.

2. Cost and payment terms

- 2.1 The cost for services to be provided according to the Agreement depends on the weight of the disposal to be utilized.
- 2.2 Unit price for the disposals of utilization could refer to Appendix 1.
- 2.3 Payment for the service should be implemented after signing the Acceptance Act in within 5 days.

3. Utilization Terms

- 3.1 The Customer should inform the Executor about the disposal volume which need to be utilized 2 (two) days in advance.
- 3.2 After receiving the notification of the Customer, the Executor will come and weigh the disposals, for which both parties should sign an Act and take the disposals away from site.
- 3.3 The Executor should utilize the disposal within 5-10 days after receiving these disposals and will provide the Acceptance Act to the Customer in the next day.
- 3.4 After signing the Acceptance Act by both parties, the service fee should be paid within 5 days.

4. Rights and Duties of The Parties

4.1 The Executor's rights and duties:

- 4.1.1 The Executor promises that he has full right to implement the Agreement obligations, which is proven by Permission #74 of the Ministry of Environment and Natural Resources Protection of 29.12.2015 and 16.01.2017 issued with # 000233, MD-1 permit.
- 4.1.2 The Executor is obliged to fulfill the services within the agreed period under this Agreement.
- 4.1.3 The Executor is obliged to compensate the Customer the damage in case of infringement of terms and conditions.

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4.1.4 The Executor has the right to demand the fulfillment of the agreed obligations from the Customer. Otherwise, he will demand to cover the damages.

4.2 The Customer's rights and duties:

- 4.2.1 The Customer is obliged to pay the Executor in due time for his services.
- 4.2.2 The Customer is obliged to timely supply the Executor the production to be utilized.
- 4.2.3 The Customer has the right to demand the Executor to cover the damage, if he does not fulfill the agreed duties.
- 4.2.4 The Customer has the right to request the Executor to fulfill his obligations in due time and good manner under the Agreement and the government laws.

5. Dispute Resolution

- 5.1 The present Agreement is being explained according to the Georgian legislation in force.
- 5.2 Disputes between the parties are being resolved based on mutual negotiations. In case they do not reach the agreement, the disputes will be considered in the court, according to the Georgian legislation in force.

6. Confidentiality

- 6.1 The information, acquired by the parties while cooperation is considered confidential and it is not permitted to give it out to third parties, without prior written consent of the other party. The parties should provide the protection of the information on correspondence and other business documentation from third parties.
- 6.2 The parties should keep within the rule even after the agreement termination.
- 6.3 In case the confidential information giving to third parties (apart from the legally stipulated cases), the breaching party should compensate any penalty to the other party, which is defined by the other party.

7. Force-majeure

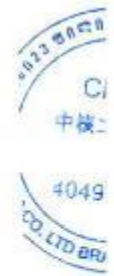
- 7.1 The parties will not be obliged to fulfill the duties in case the force-majeure circumstances take place.
- 7.2 After the force-majeure circumstances end, the parties will agree on the new terms and conditions, according to the legislation in force.

8. The Agreement validity

- 8.1 This Agreement will enter into force on the date of signature by both Parties and will remain in force until 21 June 2022.
- 8.2 The Agreement can be prolonged upon mutual consent of the parties, in written.

9. Conclusive provisions

- 9.1 The parties are led by the mutual respect principle and deepening the cooperation wish.



Handwritten signature or mark.

- 9.2 The parties of the Agreement are obliged to keep honest name, business reputation, dignity.
- 9.3 The present Agreement is drawn up in 2 (two) copies in English and Georgian languages, each having equal legal force, kept within the parties.

10. Requisites of the parties

Customer

Georgia Branch of China Nuclear
 Industry 23 Construction Co., Ltd
 Identification code: 404952789
 Address: Java 5 Street, Tbilisi, Georgia
 Tel: 571195115; 591620760
 Email: luoke222@gmail.com
cn73georgiaofficial.com
 Director: Luoke



Executor

“Medical Technology” Ltd.
 Identification code: 404384590
 JSC “Procredit Bank”
 Bank code: MIBGGE22
 o/a: GE22PC0133600100053668
 Tbilisi, D. Agmashenebeli alley#12km clinic
 Lancer’s building, room 305,
 Tel: 579 911 566; 593 96 00 26
 Email: medicaln@gmail.com
 Director: Gia Gogbaidze



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