



# SEISMIC RESILIENCE AND ENERGY EFFICIENCY IN PUBLIC BUILDINGS PROJECT (SREEPB PROJECT)

# ISTANBUL TECHNICAL UNIVERSITY AYAZAGA CAMPUS - 2ND STAGE FACULTY OF AERONAUTICS AND ASTRONAUTICS FACULTY OF NAVAL ARCHITECTURE AND OCEAN ENGINEERING FACULTY OF MINES AYAZAĞA GIRLS' DORMITORY

# ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

APRIL **2024** 



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Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

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# **Abbreviations**

BU Bogazici University
BP Bank Procedure

CİMER Presidency's Communication Center

Consultant Tümaş & ATLASCert® & Hill Joint Venture

dBA Noise Reduction and Control

dBC Noise Rating MeasureE&S Environmental and SocialEA Environmental Assessment

EIA Environmental Impact Assessment
ESF Environmental and Social Framework
EHS Environment, Health, and Safety
ESS Environmental and Social Standards

ESMF Environmental and Social Management Framework

ESMP Environmental and Social Management Plan FoAA Faculty of Aeronautics and Astronautics

FoM Faculty of Mines

FoNAMS Faculty of Naval Architecture and Ocean Engineering

GDCA General Directorate of Construction Affairs

GM Grievance Mechanism

ILO International Labor OrganizationITU İstanbul Technical University

LOTO Lock Out-Tag Out

M&E Monitoring and Evaluation

MoEUCC Ministry of Environment, Urbanization, and Climate Change

OHS Occupational Health and Safety

PIU Project Implementation Unit PPE Personal Protective Equipment

PV Photovoltaic Panel

SGI Social Security Institution

SPP Solar Power Plant

SREEPB Seismic Resilience Enegy Efficiency Public Buildings

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

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WB World Bank

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

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# **Executive Summary**

Seismic Resilience and Energy Efficiency in Public Buildings (SREEPB) Project focuses on seismic retrofitting and energy efficiency in public buildings such as higher education buildings, dormitories, social service institutions, hospitals, and government buildings located in high seismic risk areas with low energy efficiency. Under the reference number WB/CS-DESSUP-01, this project covers 32 structures on 11 campuses, including Boğaziçi University (BU), Marmara University, Istanbul Technical University (ITU), Istanbul University, Sakarya Government Building, and two student dormitories in Kocaeli.

This document provides information about the structural retrofitting and energy efficiency improvement works at the Istanbul Technical University's Ayazağa Campus, specifically focusing on the Faculty of Aeronautics and Astronautics, the Faculty of Naval Architecture and Ocean Engineering, and the Faculty of Mines and Ayazağa Girls' Dormitory. It discusses the applicable national and international regulations, outlines measures to mitigate or eliminate potential adverse environmental and social impacts during the projects, and addresses health and safety measures. Additionally, this Environmental and Social Management Plan (ESMP) includes details about stakeholder engagement activities, and the establishment of a Grievance Mechanism (GM), and outlines the responsibilities of relevant parties within the project scope.

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

**ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN** 

# Introduction

This Environmental and Social Management Plan (ESMP) has been prepared within the scope of the Seismic Resilience and Energy Efficiency in Public Buildings Project (SREEPB), focusing on the structural retrofitting and energy efficiency improvement activities to be carried out in the Faculty of Aeronautics and Astronautics, the Faculty of Naval Architecture and Ocean Engineering, and the Faculty of Mines and Ayazağa Girls' Dormitory at the Istanbul Technical University's Ayazağa Campus, located in Maslak Sarıyer/Istanbul. It aims to identify measures to mitigate or eliminate the potential adverse environmental and social impacts and risks that may arise from these activities, ensuring they are maintained at an acceptable level.

First and foremost, this ESMP has been prepared in accordance with Turkish legislation and, in addition, aligns with the policies, standards, and measures of the World Bank (WB). It clearly outlines who will implement the measures, when, how frequently, and in what manner during the various stages of project implementation.

# 1. General Project and Project Area Information

# 1.1 Project Description

# 1.1.1. General Information and Objectives

The general purpose of the Seismic Resilience and Energy Efficiency in Public Buildings (SREEPB) Project; is to strengthen public buildings (educational buildings, dormitories, hospitals and administrative buildings) that are inefficient in terms of energy use and have a high earthquake risk, against earthquakes and to ensure energy efficiency.

The aim of the project is to determine the behavior of the ground and structural systems of existing public buildings with different uses against earthquakes and to eliminate the risks by structurally retrofitting them, as well as to make improvements in terms of energy efficiency, to reduce energy consumption and CO<sub>2</sub> emissions, to monitor and control energy consumption, to close the current deficit due to energy, and to develop the sector and raise awareness by creating a model for making all public buildings in Türkiye energy efficient after the project.

SREEPB Project ensures that existing buildings are strengthened against earthquakes and made more efficient, as well as increasing social awareness about earthquakes and energy efficiency.

Throughout the project, structural retrofitting works include building load-bearing system improvements and additions, as well as soil improvement if needed (*limited only to the floors of the buildings in scope*). Studies focused on energy efficiency include facade and roof insulation, replacement of facade components such as windows and doors, mechanical system revisions, air conditioning system replacements, ventilation system revisions and replacements, integration of building energy monitoring and automation systems into the existing electrical system, electricity generation through solar panel installation.

Within the scope of the Environmental and Social Standards defined in the World Bank's Environmental and Social Framework (ESF), the SREEPB Project must ensure that the activities to be carried out will not create irreversible negative environmental and social impacts and risks and that the possible impacts/risks are temporary and reversible. The Environmental Risk Rating is accepted as "Moderate" level since it is at a moderate level in terms of size and quality and the sub-project sites are not in sensitive areas in terms of environmental, social risks and impacts. They are also not expected to have serious adverse effects on human health and the environment.

The structures within the scope of the sub-project subject to this ESMP are located within the Istanbul Technical University Ayazağa Campus. Apart from the buildings where the project activities will take place, it is not possible for other buildings/structures or the campus to be directly affected by the project activities. In addition, the structures included in the scope will be decommissioned during construction activities. Therefore, building users will not be affected by the project activities.

This ESMP has been prepared as a guidance document for the SREEPB Project to eliminate or, if not entirely possible, reduce to an acceptable level its environmental impacts such as waste generation (hazardous and non-hazardous), air and water pollution, as well as its impacts and risks on public health, safety, and occupational health and safety (OHS), in compliance with the requirements of the World Bank (WB) and relevant national legislation.

The project, funded by the World Bank (WB), will be carried out by the Ministry of Environment, Urbanization, and Climate Change (MoEUCC) General Directorate of Construction Affairs (GDCA). GDCA will be responsible for the overall implementation, control, management, and coordination of the project. The consulting firm will be responsible for preparing and supervising the implementation of the Environmental and Social Management Plan (ESMP), while the contractor will be responsible for the on-site implementation of the ESMP.

# 1.1.2 Project Information

The satellite image and detailed information regarding the Istanbul Technical University Ayazağa Campus, including the Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, and Girls' Dormitory, are provided in Figure 1 and Table 1, respectively, within the scope of the project.

# **Buildings within the Scope of the Project**

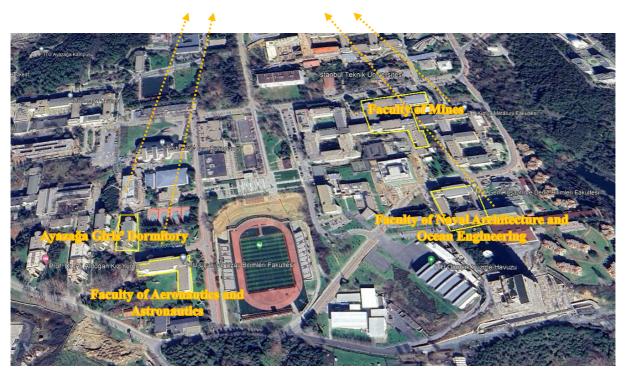


Figure 1: Ayazağa Campus, Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering and Faculty of Mines, Ayazağa Girls' Dormitory

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

# **Table 1: Building General Information**

CAMPUS NAME	Istanbul Technical University, Ayazağa Campus
BUILDING NAMES included in the project)	<ul> <li>Faculty of Aeronautics and Astronautics (FoA) (4 Blocks) (9.385,14 m²)</li> <li>Faculty of Naval Architecture and Ocean Engineering (FoNAOE) (7 Blocks) (9925,37 m²)</li> <li>Faculty of Mines (FoM) (12 Blocks) (15592,2 m²)</li> <li>Ayazağa Girls' Dormitory (AGD) (1 Block) (3.395,25 m²)</li> </ul>
PROVINCE	İstanbul
DISTRICT	Sariyer
NUMBER OF USERS	~1610 (FoA)+ 880 (FoNAOE)+2020 (FoM) + 250 (AGD) per/day ~Total:4.760 per/day
	BUILDING INFORMATION
CONSTRUCTION AREA	~38.297,96 m <sup>2</sup>
THE PLANNED V	WORKS TO BE CARRIED OUT IN ALL BUILDINGS INCLUDED IN THE PROJECT
STRUCTURAL REINFORCEMENT	<ul> <li>Existing load-bearing system reinforcement.</li> <li>Additional load-bearing system manufacturing</li> <li>Floor, ceiling, wall and door renovations due to structural retrofitting activities</li> </ul>
ENERGY EFFICIENCY	<ul> <li>Facade and roof thermal insulation</li> <li>Door changes</li> <li>Circulation system motor/pump changes</li> <li>Non-insulated installation elements, thermal insulation installation for heat exchangers</li> <li>Thermal insulation was installed on the heat exchangers in hot water production</li> <li>Changes of pumps in the boiler room</li> <li>Lighting element replacements (one-to-one replacements will be made, electrical installation intervention (line, column line replacement, etc.) will not be conducted.)</li> <li>Self-consumption focused solar power plant facility (on the roof) (to be integrated into the existing supply line)</li> <li>Energy monitoring and automation system facility (to be integrated into the existing electrical system)</li> <li>Replacement of air conditioning unit motors with high-efficiency motors</li> <li>Mechanical automation and energy measurement monitoring system</li> </ul>

All works to be carried out within the scope of the project will be carried out between the first quarter of 2024 and the first quarter of 2025. The Contractor is obliged to complete the work in the buildings within the planned timeframe as specified in the Job Description. Additionally, the Contractor will inform all stakeholders clearly and in advance about the construction activities' schedule before commencing any construction work.

# **EXPECTED NUMBER OF WORKERS**

The total estimated number of workers in the buildings is expected to be an average of 90 personnel per day.

# 1.1.3 Locations of Campus & Buildings

The satellite image showing the campus boundaries is presented in Figure 2.



Figure 2: Campus Borders (154 Block, 132 Parcel)

# **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

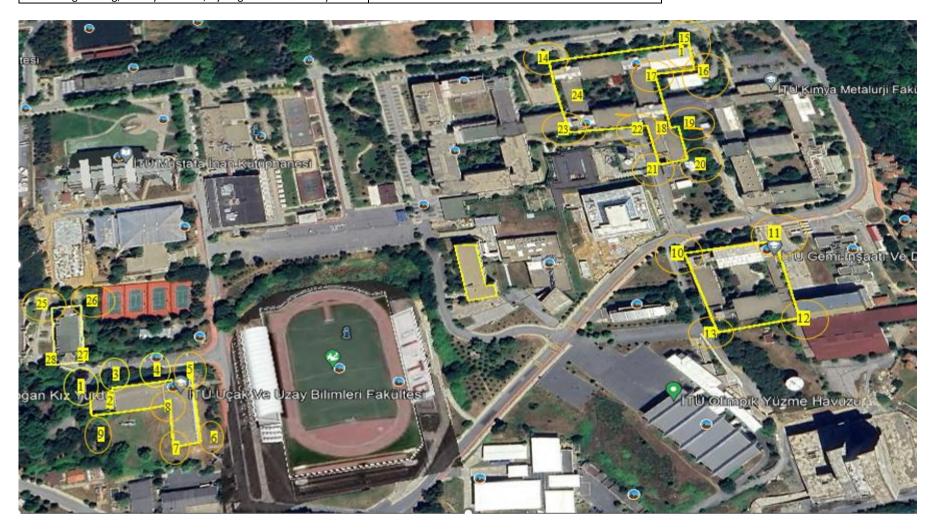


Figure 3: Istanbul Technical University FoAA, FoNAOE, FoM, AGD View and Coordinates

FACULTY OF AERONAUTICS AND ASTRONATURE SCIENCES					
No	Latitude	Longitude			
1	29.02110569023672	41.10127620493368			
2	29.02178316024171	41.10138149138996			
3	29.02185079036256	41.10102669483433			
4	29.02208544815725	41.10107010469167			
5	29.02195616163948	41.10162251403774			
6	29.02169578371174	41.10158255312783			
7	29.02125226153354	41.10152891698248			
8	29.02124896617657	41.10148799283781			
9	29.02105693358858	41.10147751972848			
F	ACULTY OF NAVAL A				
	OCEAN ENG				
10	29.0273412047567	41.10285775083892			
11	29.02648529603217	41.10277234878651			
12	29.02670515517044	41.10198809452068			
13	29.02745613380758	41.10209843297633			
	FACULTY OF MINES				
14	29.02532567470882	41.10461342415597			
15	29.02545900267367	41.10405702865836			
16	29.0262422109253	41.10413114819379			
17	29.02632380179636	41.10368748764546			
18	29.02660335298974	41.10373266156289			
19	29.02655157432888	41.10410947361222			
20	29.02647209183689	41.10409292994066			
21	29.02636496305263	41.10470273272126			
22	29.02676800929425	41.10474315948398			
23	29.02674532494171	41.10506161095628			
24	29.02528753978049	41.10486946340978			
AYAZAĞA GIRLS' DORMITORY					
25	29.0205820731791	41.10227380829869			
26	29.02096248625698	41.10176287028518			
27	29.02085153138083,	41.10228267344824			
28	29.02058036945007	41.10226140554894			

During the retrofitting and renovation in the buildings, potential adverse effects primarily occur inside the building, and since there is no need for soil improvement works, the effects that may reflect outside the building, such as noise and dust formation, increased traffic, parking space shortage, vibration, and visual effects, are limited to a distance of 100 meters affecting surrounding buildings. The buildings in question are scattered, and there are no structures located within two or more impact areas.

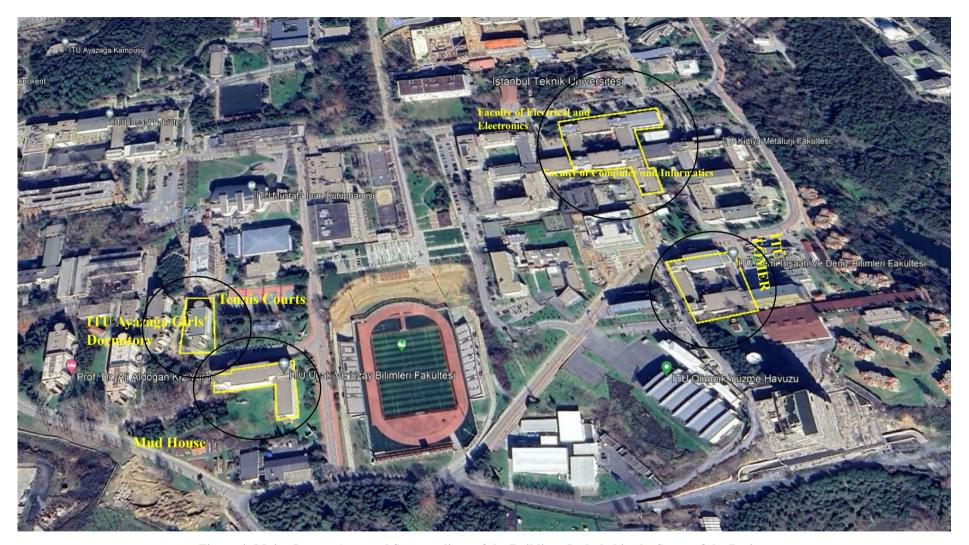


Figure 4: Major Impact Area and Surroundings of the Buildings Included in the Scope of the Project

# 2. Compliance with Legal Framework and World Bank Environmental and Social Framework (ESF)

# 2.1 National Regulation

The ESMP has been prepared primarily in accordance with the legislation of the Republic of Turkey. Turkey's basic framework regarding environmental legislation is the Environmental Law (No. 2872), which was published in the Official Gazette No. 18132 dated 11 August 1983 and was last revised in the Official Gazette No. 32414 dated 29.12.2023 regarding administrative fines. It is supported by regulations. The regulations that are primarily used/will be used to evaluate and prevent environmental impacts within the scope of this project are stated below.

- 1. Waste Management Regulation was published in the Official Gazette dated 2 April 2015 and numbered 29314.
- 2. Regulation on the Control of Packaging Wastes was published in the Official Gazette dated 26 June 2021 and numbered 31523.
- 3. Regulation on the Control of Excavation Soil, Construction and Demolition Wastes was published in the Official Gazette dated 18.03.2004 and numbered 25406, and an amendment was made in the Official Gazette numbered 31623 dated 09 October 2021.
- 4. Air Quality Assessment and Management Regulation was published in the Official Gazette dated 06 June 2008 and numbered 26898.
- 5. Regulation on the Prevention of Risks of Exposure to Biological Agents was published in the Official Gazette dated 15 June 2013 and numbered 28678.
- 6. Zero Waste Regulation was published in the Official Gazette No. 30829 dated 12 July 2019 and an amendment was made in the Official Gazette No. 31623 dated 09 October 2021.
- Regulation on Control of Soil Pollution and Contaminated Sites by Point Sources was published in the Official Gazette No. 27605 dated 8 June 2010 and was last revised in the Official Gazette No. 28704 dated 11 July 2013.
- 8. Water Pollution Control Regulation, published in the Official Gazette dated December 31, 2004, with the latest amendment published in the Official Gazette dated May 12, 2023, with the number 32188.
- 9. Environmental Noise Control Regulation was published in the Official Gazette No. 32029 dated 30 November 2022.
- 10. The Regulation on Noise Emission in the Environment Created by Equipment Used in Open Areas was published in the Official Gazette No. 26392 dated 30 December 2006 and an amendment was made in the Official Gazette No. 30088 dated 06 June 2017.

Within the scope of the project, activities related to Occupational Health and Safety, taking into account the primary impacts, will be carried out in compliance with the legislation, including the Labor Law No. 4857 published in the Official Gazette dated June 10, 2003, with issue number 25134, and the Occupational Health and Safety Law No. 6331 Published in the Official Gazette dated June 30, 2012, with issue number 6331, along with related regulations. Below are the regulations that will be primarily utilized.

- 1. The Regulation on Health and Safety Measures in Working with Asbestos was published in the Official Gazette No. 28539 dated 25 January 2013 and an amendment was made in the Official Gazette No. 28884 dated 16 January 2014,
- 2. Manual Handling Regulation was published in the Official Gazette No. 28717 dated 24 July 2013.
- 3. Regulation on Occupational Health and Safety in Temporary or Fixed-Term Works was published in the Official Gazette No. 28744 dated 23 August 2013.

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- 4. Regulation on Health and Safety Measures in Working with Chemical Substances was published in the Official Gazette No. 28733 dated 12 August 2013.
- 5. Regulation on the Use of Personal Protective Equipment in Workplaces was published in the Official Gazette dated 02 July 2013 and numbered 28695.
- 6. Health and Safety Signs Regulation was published in the Official Gazette No. 28762 dated 11 September 2013.
- 7. The Regulation on the Vocational Training of Those to be Employed in Hazardous and Very Hazardous Class Jobs was published in the Official Gazette dated 13 July 2013 and numbered 28706, and an amendment was made in the Official Gazette dated 11 May 2017 and numbered 30063.
- 8. Dust Fighting Regulation was published in the Official Gazette dated 5 November 2013 and numbered 28812.
- 9. Regulation on Occupational Health and Safety in Construction Works was published in the Official Gazette No. 28786 dated 5 October 2013 and an amendment was made in the Official Gazette No. 30642 dated 31 December 2018.
- 10. Regulation on the Protection of Employees from Noise-Related Risks was published in the Official Gazette No. 28721 dated 28 July 2013.
- 11. The Regulation on the Procedures and Principles of Occupational Health and Safety Training of Employees was published in the Official Gazette No. 28648 dated 15 May 2013 and an amendment was made in the Official Gazette No. 30430 dated 24 May 2018.
- 12. The Regulation on Health and Safety Conditions in the Use of Work Equipment was published in the Official Gazette No. 28628 dated 25 April 2013 and an amendment was made in the Official Gazette No. 31754 dated 18 February 2022.
- 13. The Regulation on the Duties, Powers, Responsibilities and Training of Occupational Safety Experts was published in the Official Gazette dated 29 December 2012 and numbered 28512, and an amendment was made in the Official Gazette dated 6 July 2021 and numbered 31533.
- 14. Regulation on Occupational Hygiene Measurement, Test and Analysis Laboratories was published in the Official Gazette dated 24 January 2017 and numbered 29958.
- 15. Occupational Health and Safety Services Regulation was published in the Official Gazette No. 28512 dated 29 December 2012 and an amendment was made in the Official Gazette No. 31533 dated 6 July 2021.
- 16. Occupational Health and Safety Risk Assessment Regulation was published in the Official Gazette No. 28512 dated 29 December 2012.
- 17. The Regulation on Emergency Situations in Workplaces was published in the Official Gazette No. 28681 dated 18 June 2013 and an amendment was made in the Official Gazette No. 31615 dated 1 October 2021.
- 18. The Regulation on Suspension of Work in Workplaces was published in the Official Gazette No. 28603 dated 30 March 2013 and an amendment was made in the Official Gazette No. 29621 dated 11 February 2016.
- 19. The Regulation on the Duties, Powers, Responsibilities and Training of Workplace Physicians and Other Health Personnel was published in the Official Gazette dated 20 July 2013 and numbered 28713, and an amendment was made in the Official Gazette dated 6 July 2021 and numbered 31533.
- 20. Regulation on Health and Safety Measures in Working with Screened Vehicles was published in the Official Gazette No. 28620 dated 16 April 2013.
- 21. Regulation on the Protection of Employees from Vibration-Related Risks was published in the Official Gazette No. 28743 dated 22 August 2013.
- 22. Regulation on Supporting Occupational Health and Safety Services was published in the Official Gazette No. 28861 dated 24 December 2013.
- 23. Regulation on Occupational Health and Safety Boards was published in the Official Gazette No. 28532 dated 18 January 2013.
- 24. Regulation on Health and Safety Measures to be Taken in Workplace Buildings and Attachments was published in the Official Gazette No. 28710 dated 17 July 2013.

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- 25. The Regulation on the Working Conditions of Pregnant or Breastfeeding Women, Breastfeeding Rooms and Child Care Dormitories was published in the Official Gazette No. 28737 dated 16 August 2013, and an amendment was made in the Official Gazette No. 30881 dated 7 September 2019.
- 26. The Regulation on the Working Conditions of Female Employees in Night Shifts was published in the Official Gazette No. 28717 dated 24 July 2013 and an amendment was made in the Official Gazette No. 30159 dated 19 August 2017.

To determine the basic insurance rights during the employment of all workers, the Social Security and General Health Insurance Law No. 5510 dated June 16, 2006, will be applied.

Additionally, the Environmental Impact Assessment (EIA) Regulation, under Article 10 of the Environmental Law, was first published in the Official Gazette dated February 7, 1993, with issue number 21489, and was last revised and published in the Official Gazette dated July 29, 2022, with issue number 31907. Since the construction activities will take place in publicly-owned existing buildings, the project is not subject to the EIA Regulation.

Significant social and environmental impacts resulting from the project are likely to affect sensitive receptors located near the project area. In this context, the careful management of ESMPs and OHS activities will be sufficient to reduce environmental and social impacts.

# 2.2 International Conventions

- 1. European Union Council Directive 89/391/EEC dated 12/6/1989, concerning measures to improve the health and safety of workers at work.
- 2. International Labour Organization (ILO) Convention No. 155, concerning Occupational Safety and Health and the Working Environment.
- 3. International Labour Organization (ILO) Convention No. 161 concerning Occupational Health Services.
- 4. International Labour Organization (ILO) Convention No. 187 concerning the Promotional Framework for Occupational Safety and Health.
- 5. International Labour Organization (ILO) Convention No. 167 concerning Safety and Health in Construction.
- 6. United Nations Framework Convention on Climate Change.
- 7. Paris Agreement on Climate Change.
- 8. Long-Range Transboundary Air Pollution Convention.

# 2.3 World Bank Environmental and Social Framework (ESF) and Standards

The project will comply with the national legislation as well as the requirements of the World Bank Environmental and Social Framework<sup>1</sup> (ESF) and the relevant Environmental, Health, and Safety (EHS) Guidelines<sup>2</sup> at all stages.

The Environmental and Social Standards (ESS) summarized in Annex II are one of the components of the World Bank Environmental and Social Framework, and they define the requirements for the project owner in terms of identifying and assessing environmental and social risks and impacts associated with projects supported by the World Bank. The applicability of the World Bank Environmental and Social Standards to the SREEPB Project is summarized in Table 2.

Table 2: The Applicability of the World Bank Environmental and Social Standards to the Project.

Environmental and Social Standards	Applicability
ESS1: Assessment and Management of Environmental and Social Risks and Impacts	Yes
ESS2: Labor and Working Conditions	Yes
ESS3: Resource Efficiency and Pollution Prevention and Management	Yes
ESS4: Community Health and Safety	Yes
ESS5: Land Acquisition, Restrictions on Land Use, and Involuntary Resettlement	No <sup>3</sup>
ESS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources	No <sup>4</sup>
ESS7: Indigenous Peoples/ Sub-Saharan African Historically Underserved Traditional Local Communities	No <sup>5</sup>
ESS8: Cultural Heritage	Yes
ESS9: Financial Intermediaries	No <sup>6</sup>
ESS10: Stakeholder Engagement and Information Disclosure	Yes

<sup>&</sup>lt;sup>1</sup> https://www.worldbank.org/en/projects-operations/environmental-and-social-framework

 $<sup>^2 \</sup>underline{\text{https://www.ifc.org/en/insights-reports/2000/general-environmental-health-and-safety-}} \\ \underline{\text{guidelines\#:\sim:text=The\%20Environmental\%2C\%20Health\%2C\%20and\%20Safety,and\%20in\%20IFC's\%20Performance\%20} \\ \underline{\text{Standards}}$ 

<sup>&</sup>lt;sup>3</sup> None of the activities carried out within the scope of this project will cause land acquisition, any restrictions on land use, or involuntary resettlement. All work will be conducted within existing buildings.

<sup>4</sup> There will be no interaction with natural resources and/or biodiversity elements as a result of any activity conducted within the scope of the project.

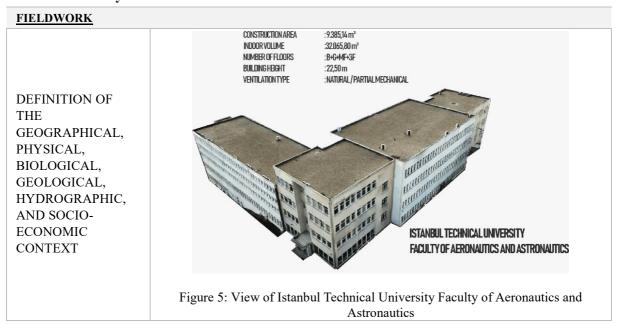
<sup>&</sup>lt;sup>5</sup> There are no indigenous groups in Turkey that meet the definition provided in ESS7.

<sup>&</sup>lt;sup>6</sup> Since there is no involvement of any financial intermediary institution in this project, ESS9 will not be applicable to this project.

# 3. Activities to be Conducted within the Scope of the Project

The summarized technical information regarding the structural reinforcement and energy efficiency works to be carried out in the Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, and Faculty of Mines and Ayazağa Girls' Dormitory at Istanbul Technical University Ayazağa Campus is provided in Table 3 below. This Environmental and Social Management Plan (ESMP) will be accessible to all stakeholders throughout the project's duration, both at the construction sites and on the project's website (https://kamuguclendirme.csb.gov.tr/). Additionally, to ensure stakeholders have sufficient information about the project before the briefing meeting, a draft ESMP will be disclosed on the Istanbul Technical University official website (https://itu.edu.tr/) at least 10 days before the meeting. The contractor will employ a full-time environmental, social and occupational health and safety (OHS) specialists, while the Construction Supervision Consultant firm will employ an environmental, a social, and an OHS expert. The Consultant, Contractor, and Ministry Project Implementation Unit (PIU) will be responsible for recording and responding to environmental, social, and OHS questions and opinions raised by stakeholders.

Table 3: Summary Information About the Activities to be Conducted



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Figure 6: Istanbul Technical University Faculty of Naval Architecture and Ocean Engineering

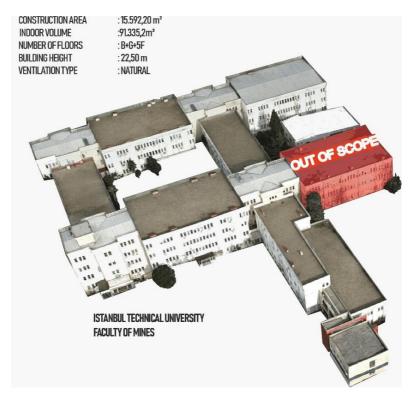


Figure 7: Istanbul Technical University Faculty of Mines



Figure 8 Ayazağa Girls' Dormitory

The project includes work in four separate buildings located within the Istanbul Technical University Ayazağa Campus. During the execution of project activities (such as scaffolding installation, painting, external cladding, etc.), it is expected that the soil surrounding the buildings will be affected by construction activities. Necessary precautions will be taken to prevent the contamination of soil with hazardous chemicals during the work in this area. Measures to manage potential environmental and social impacts and risks of the project are detailed in Chapter 5. No transportation issues are anticipated for accessing the project area. All necessary infrastructure facilities such as electricity, water, sewage, natural gas, internet, etc., are accessible for the works.

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The project site is within the borders of Istanbul Technical University Ayazağa Campus. The majority of the retrofitting and renovation works will be carried out inside the building. However, preventing the settlements close to the project area from being negatively affected by construction activities is presented in this ESMP and will be kept under control and managed with impact mitigation measures.

The activity area and its surroundings are shown in Figure-4. The major impact areas resulting from the operations to be carried out within the scope of seismic retrofitting and energy efficiency for the buildings that will take part in the activity and their distances to the buildings are given below.

In the major impact area of ITU Faculty of Aeronautics and Astronautics:

- ITU Ayazaga Girls' Dormitory (40 m)
- Adobe House (50 m)
- Tennis Courts (80 m)
- ITU Stadium (55 m)
- Altan Edge Girls' Dormitory (80 m)
- Trisonic Research Center (50 m)

In the major impact area of ITU Faculty of Mines:

- ITU Faculty of Computer and Informatics (Adjacent)
- ITU Faculty of Chemical and Metallurgical Engineering (Adjacent)
- ITU Faculty of Electrical and Electronics Engineering (60m)

In the major impact area of ITU Faculty of Naval Architecture and Ocean Engineering:

- ITU TÖMER (40 m)
- Satellite Ground Center (40 m)
- ITU Olympic Swimming Pool (80m)

Ayazağa Girls' Dormitory

- Tennis Court (20 m)
- ITU Faculty of Aeronautics (32 m)
- Altan Edige Girls' Dormitory (45 m)
- Ferhunde Girls' Dormitory (20 m)

Possible problems that may be encountered in waste management the spread of excavation waste outside the construction site, dust, noise, vibration and public health and safety, etc. problems may negatively affect those working/living in the buildings in question that are in the major impact area. Detailed information on the subject and precautions to be taken are included in Chapter 5. In addition, the management of Istanbul Technical University Rectorate will be informed at least 7 days before each stage of the construction process (since the areas to be worked on will be evacuated before the retrofitting works begin, there will be no users in the building while the works are ongoing). The construction schedule will be kept on site, in a place where stakeholders can see it, and will be constantly updated throughout the project.

All these buildings that are close to the project area are considered as sensitive receptors, and the measures to be taken to prevent these sensitive receptors from being affected by possible environmental and social impacts/risks within the scope of the project are presented in Chapter 5, as stated above. There is a fully equipped Acıbadem Maslak Hospital 4 km away from the project site. Considering the traffic situation, transportation by car is approximately 8 minutes. continues. This information will be taken into account during the preparation of OHS emergency action plans.

THE LOCATIONS
AND DISTANCES
OF THE NEAREST
SENSITIVE
RECEPTORS, SUCH
AS HOSPITALS,
HEALTHCARE
FACILITIES,
PUBLIC
BUILDINGS, AND
HOUSES

Considering the activity area and its immediate surroundings, it is not foreseen that there will be any problems during the transportation of the materials needed for construction activities.

Access roads and rules are specified in the Traffic Action Plan. The traffic action plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the Community Safety and Traffic Management Plan will be prepared by the contractor before the construction process begins.

Machinery 50
Pr. B. Karatakoglu Cd.
Pr. B. Karatakoglu Cd.
All Vehicles

Excluding Heavy
Machinery 50

All Vehicles

All Vehicles

All Vehicles

All Vehicles

All Vehicles

All Vehicles

All Vehicles

All Vehicles

All Vehicles

All Vehicles

All Vehicles

TRAFFIC ACTION PLAN

Figure 9: Traffic Action Plan

SEWAGE SYSTEM, ELECTRICITY, WATER NETWORKS, ETC. INFRASTRUCTURE USED BY THE PROJECT During the construction activities, the existing sewage, electricity, and water networks in the area will be utilized.

Domestic waste will be disposed of through municipal services, and temporary storage areas will be established for other waste materials, which will then be disposed of by licensed companies. In the event of any specific infrastructure service requirements for the project (such as sewage line blockages resulting in overflow requiring septic truck services, prolonged power outages necessitating mobile generators, prolonged water shortages requiring water tanker services for dust control, etc.), and the necessary actions will be taken in accordance with relevant regulations.

**NATIONAL** 

**PERMITS** 

ETC.)VB.)

LEGISLATION AND

ACTIVITY (EG. SPP

APPLICABLE TO

THE PROJECT

**INSTALLATION** 

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

The existing building permits will be used for the unlicensed electricity generation application of the SPP facility.

The documents to be obtained for Unlicensed Electricity Generation are not limited to the following:

- Documents required for the Call Letter from the Authorized Electricity Distribution Company,
  - Unlicensed generation connection application form,
  - Non-fixed subscriber number,
  - Receipt showing the application fee has been deposited into the account of the relevant network operator,
  - Single Line Diagram showing the technical specifications of the facility to be installed,
  - SPP Technical Evaluation Form prepared by the Directorate General of Renewable Energy, personnel program,
  - Approved coordinated application diagram,
  - Building occupancy permit in roof-type applications,
- SPP Static Projects (Roof-Top SPP Plants) Approval
- "Connection Opinion" and "Connection Agreement Call Letter" to be obtained from the relevant distribution company
- System Basic Information Form
- Technical project and calculations
- District Municipality-SPP Compliance Letter (according to Zoning Regulation Legislation)

Within the scope of the "Regulation on Unlicensed Electricity Production in the Electricity Market", the online application to the authorized energy distribution company for photovoltaic panel installation is in the process of being initiated by the Consultant.

STAKEHOLDER ENGAGEMENT PROCESS

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#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

The first stakeholder participation meeting regarding the feasibility studies conducted before the site assessment (determination of structural reinforcement needs, energy audit studies) was held face-to-face on 07.03.2023. During the meeting, technical details, objectives, and stages of the project were provided. The beneficiary institution management and PUI experts participated in the meeting (Total 11 people (6 female, 5 male)). (Energy Systems Engineer and 2 Electrical and Electronics Engineers attended the meeting in person; Social Specialist, OHS Specialist, and Environmental Specialist participated online.) (Annex VI)

STAKEHOLDER ENGAGEMENT PROCESS A stakeholder information meeting was held on 16.04.2024 to provide information about the technical, social, and environmental details of the prepared and approved projects before their implementation. The aim was to answer any questions the participants might have about the projects and to gather their opinions. Detailed information was provided at the meeting regarding the retrofitting and energy efficiency renovations to be carried out at Istanbul Technical University Ayazağa Campus 2nd Phase, Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, and Ayazağa Girls' Student Dormitory, and the anticipated environmental and social impacts were discussed.

The meeting was attended by representatives from the beneficiary institution's management, technical units, consultants from the expert firm, and PUB experts. In total, 7 people (2 female, 5 male) attended the meeting in person, while 8 others participated online, including 2 Environmental Experts, 2 Social Experts, 3 Occupational Health and Safety Experts, and 1 Energy Engineer Specialist (3 female, 5 male).

Before the information meeting, this Environmental and Social Management Plan (ESMP) was made accessible to stakeholders by being published on the project's website (<a href="https://kamuguclendirme.csb.gov.tr/">https://kamuguclendirme.csb.gov.tr/</a>) for at least 10 days. The ESMP will remain accessible to all stakeholders throughout the project's lifespan, both on the relevant websites and at the construction sites. Additionally, a printed copy of this ESMP was made available for at least 10 days in all buildings involved in the project for stakeholder access.

Details regarding the Grievance Mechanism established for the project are presented in Section 4.

ISSUES AND CONCERNS RAISED BY BUILDING USERS During the information meeting held on 07.03.2023 regarding the feasibility studies, building users were informed about the structural retrofitting and energy efficiency renovation process and were asked if they had any concerns, opinions, suggestions, and/or questions regarding these potential activities. At that time, there was no feedback from any stakeholders, either written or verbal. However, later on, through an awareness survey conducted before the retrofitting process, a beneficiary reported that the gaps in the sample taken from the columns were not filled. The project implementation unit contacted the consultant, and all buildings under Dessup 01 were inspected. The consultant firm then filled the gaps in the columns. Details were recorded in the Grievance Log. During the stakeholder engagement meetings regarding the Environmental and Social Management Plan (ESMP), it was inquired whether students and other building users had any concerns about these works. These concerns were recorded in the stakeholder engagement meeting minutes, and stakeholders' opinions, suggestions, and concerns were included in Annex VII. Based on the additional data obtained from this meeting, this document has been revised.

#### INSTITUTIONAL CAPACITY DEVELOPMENT

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# **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

	Under the project, it is expected that the contractor's corporate capacity will improve as a result of the training provided by the Consultant to the Contractor's personnel. These training sessions are listed below:
TRAINING	<ul> <li>Environmental and Social Impacts</li> <li>Waste Management</li> <li>Response to Environmental Emergencies</li> <li>Energy Efficiency</li> <li>Stakeholder Engagement/Information Activities</li> <li>Grievance Mechanism (GM)</li> <li>Gender Equality/Gender-Based Violence/Sexual Exploitation/Sexual Abuse/Sexual Harassment</li> <li>Code of Conduct</li> <li>Preservation of Historical Heritage</li> <li>Implementation and Monitoring of the OHS Plan</li> <li>Lockout Tagout Training</li> <li>Work Permit System Training</li> </ul>

# 4. Stakeholder Engagement and Grievance Mechanism (GM)

Stakeholder Engagement is an inclusive process that will be carried out throughout the project lifespan, supporting the establishment of strong, constructive, and responsive working relationships essential for the successful management of environmental and social impacts and risks of the project. The Stakeholder Engagement Meeting, by facilitating early, frequent, and transparent communication throughout the project lifespan, helps manage stakeholder expectations that may impact the management of risks, potential conflicts, and project delays. Therefore, a stakeholder briefing meeting regarding the feasibility studies was organized on March 7, 2023, with a total of 11 participants, consisting of 6 female and 5 male, to provide general information about the reasons, objectives, and stages of the project (Annex VI).

The ESMP specific to this sub-project will be disclosed on the SREEPB Project's website (https://kamuguclendirme.csb.gov.tr/) throughout the project lifecycle to ensure that all stakeholders are informed about how the project process will be conducted on-site and to receive any objections or suggestions they might have. On 26.03.2024, it was also posted at the Istanbul Technical University Ayazağa Campus buildings, including the Faculty of Aeronautics and Astronautics, the Faculty of Naval Architecture and Ocean Engineering, the Faculty of Mines, and the Ayazağa Girls' Dormitory. Following the completion of the disclosure process, a Stakeholder Engagement Meeting was held again on 16.04.2024 to provide information about the project's technical, social, and environmental details by relevant experts and to address any questions and receive feedback from participants. The meeting was attended by the contractor, beneficiary institution management and technical units, consultant firm employees, and relevant experts from the Project Implementation Unit. (A total of 15 people attended the meeting, including 5 female and 10 male.) Details regarding the Stakeholder Engagement Meeting are presented in Annex VII.

Additionally, the Consultant prepared informational promotional materials (brochures, posters, etc.) and ensured they were distributed to stakeholders.

One of the critical elements ensuring Stakeholder Engagement for the project is the Grievance Mechanism, which provides an effective procedure for affected or interested parties to access. Grievances can indicate stakeholder concerns and may increase if not identified and addressed. Identifying and responding to complaints supports the development of positive relationships between Project personnel, local communities, and other stakeholders.

The Ministry of Environment, Urbanization, and Climate Change PIU has developed a transparent and comprehensive Grievance Mechanism (GM) specific to the SREEPB Project to receive, evaluate, and resolve grievances/opinions/suggestions that may arise during the activities carried out in public buildings within the scope of the SREEPB Project. This mechanism is designed to assist all relevant stakeholders in conveying their grievances/opinions/suggestions about the activities to the relevant individuals and institutions, thereby retrofitting stakeholder participation in the project. The mechanism also enables all employees involved in the project (PIU, Consultant, Contractor) to submit their grievances/suggestions/opinions to the Ministry and the World Bank either anonymously or with open identification. The responsibilities of the Contractor, the consulting firm, and PIU are detailed in the Project Stakeholder Engagement Framework

(https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894\_paydas-katilim-cercevesi-mayis-final\_20210521122305.pdf). Additionally, all parties involved in the project are obliged to implement the Project's Environmental and Social Management Plan, Stakeholder Engagement Framework, and Labor Management Procedure.

Within the scope of the SREEPB Project, grievances will be addressed at multiple levels;

<u>a)</u> <u>Contractor Level:</u> Each contractor appointed to carry out construction works will be responsible for receiving, recording, and, if possible, resolving grievances /concerns/opinions/suggestions expressed by any stakeholder (building management, building users, visitors, local communities or beneficiaries, project staff, etc.) in accordance with the Grievance Mechanism Procedure. The contractor will ensure that all personnel involved in the project are aware that they can use the Grievance Mechanism (GM) and that grievances from staff will not be an obstacle to renewing their employment contract in the future.

The steps for transmitting grievances/opinions/suggestions from employees are detailed under the "Grievance Mechanism for Employees" heading in the SREEPB Project Workforce Management Procedures. All employees can use this mechanism openly or anonymously.

If the Contractor cannot resolve grievances/concerns/opinions/suggestions related to construction works carried out within the scope of the SREEPB Project, they are obliged to forward these applications to the relevant person/organizations by the Grievance Mechanism Procedure of the project.

Contractors will also report the records they keep, including resolved and unresolved grievances/concerns/opinions/suggestions, to the Consultant weekly. The contractor is obliged to resolve grievances within 15 calendar days at the latest.

- **b)** Consultant Level: Concerns/opinions/recommendations that cannot be addressed at the contractor level will be handled by the social specialist of the Consultant Firm, who serves as the Construction Controller. The Project Manager, following the Grievance Mechanism Procedure, will prepare a status report, reminding the contractor of their responsibilities and ensuring that necessary corrective actions are taken to resolve the issue.
  - The Consultant will assure all personnel involved in the project that they can use the GM, and that using it will not affect the renewal of their contracts in the future. If the Project Manager cannot resolve grievances /concerns/opinions/recommendations, they are obliged to refer them to the Ministry of Environment, Urbanization, and Climate Change. The Consultant firm is responsible for resolving within a maximum of 15 calendar days.
  - The Consultant will also report both direct grievances/concerns/opinions/recommendations they receive and those conveyed by the contractor to the Ministry of Environment, Urbanization, and Climate Change on a weekly basis.
- **C)** MoEUCC Provincial Directorates Level: To the extent possible, the Provincial Directorate of Environment, Urbanization, and Climate Change will be responsible for grievances /concerns/opinions/recommendations received regarding activities carried out within the scope of the SREEPB Project. Provincial directorates will also promptly forward all grievances/concerns / opinions / recommendations received, whether or not they resolve them, to the Administration.
- <u>MoEUCC Level (PIU)</u>: Within the scope of the SREEPB Project, MoEUCC is responsible for collecting, recording, and resolving all grievances/concerns/opinions/recommendations expressed by stakeholders through the levels mentioned above. MoEUCC is responsible for resolving the collected grievances/concerns/opinions/recommendations within 15 calendar days and informing the complainant about the results. However, in cases requiring detailed investigation, this period can be extended to 30 calendar days.

Grievances regarding gender-based violence, sexual exploitation, and harassment are recommended to be submitted using the web-based complaint system provided in Annex III, which allows for anonymous complaints. To ensure confidentiality, access to this web-based complaint system will be granted only to an authorized personnel.

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

In addition to the Grievance Mechanisms at different levels defined above, throughout the life of the Project, stakeholders will also be able to use the national Grievance Mechanism channels detailed below. The channels for communicating grievances and suggestions to the Administration, especially the national grievance mechanism such as the CIMER Communication Center, are given below:

### **Table 4: CİMER COMMUNICATION CHANNELS**

Website : https://www.cimer.gov.tr

https://giris.turkiye.gov.tr

Call Line : Alo 150

Mailing Adress: T.C. Cumhurbaşkanlığı Külliyesi 06560 Beştepe - Ankara

Phone : 0312 590 20 00 Fax : 0312 473 64 94

# **Table 5: GM COMMUNICATION CHANNELS**

Call Center : ALO 181 Phone : 0312 586 4858

E-mail : <u>yigmkadev@csb.gov.tr</u>

Grivance : <a href="https://kadevoneri.csb.gov.tr/oneri.jsp">https://kadevoneri.csb.gov.tr/oneri.jsp</a> |

Suggestion and grievance boxes installed in buildings

The communication channels for the GM include wall posters in all buildings (posted on walls where suggestion and grievance boxes are located) and the distribution of project brochures to raise awareness. Additionally, all project personnel are responsible for informing stakeholders in their surroundings about the suggestions and grievance mechanisms. They will be provided with information on this matter before the project commences. Further details on this issue are explained in the Stakeholder Engagement Framework (SEF) (<a href="https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894">https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894</a> paydaskatilim-cercevesi-mayis-final 20210521122305.pdf).

The Construction Contractor is responsible for receiving, recording, and resolving, grievances/concerns/opinions/recommendations during the renovation of public buildings. Every contractor appointed to carry out construction work will establish a system to receive and record, opinions, and suggestions related to construction activities from building management, employees, visitors, and beneficiaries. The contractor will record grievances, opinions, and suggestions using the Grievance and Suggestion Form and the Grievance Closeout Form provided in Annexes IV and V. Verbal, opinions, and suggestions will be recorded by the responsible personnel of the contractor by filling out the Grievance and Suggestion Form. The contractor is obliged to send the recorded grievances to the Project Manager every week. The Project Manager is responsible for reporting the received, suggestions, and requests to the MoEUCC weekly.

Records related to grievances, opinions, and suggestions will be regularly shared by MoEUCC with the World Bank (WB). Additionally, individuals or communities who believe they have been adversely affected by projects supported by the WB can submit their grievances through the project-level Grievance Mechanism (GM) available or directly to MoEUCC, or through the WB's Grievance Redress Service (GRS) at (<a href="https://www.worldbank.org/en/projects-operations/products-and-services/grievance-redress-service">https://www.worldbank.org/en/projects-operations/products-and-services/grievance-redress-service</a>).

Stakeholders affected by the project can also submit their grievances to the WB Inspection Panel. This panel determines whether individuals or communities who file grievances have been or could be harmed as a result of a violation of one or more of the WB's performance criteria. The Panel can directly communicate its concerns about received grievances to the WB, at which point the WB has the

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, Ayazağa Girls' Dormitory

# **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

opportunity to respond to the grievances. For information on how to submit grievances to the WB Inspection Panel, please visit <a href="https://www.inspectionpanel.org">www.inspectionpanel.org</a>.

# 5. Environmental and Social Risks & Impacts and Precautions to be Taken

# Table 6 List of Environmental & Social Effects and Measures to be Taken

IMPLEMENTATION / CONSTRUCTION PHASE	RISK & IMPACTS	MEASURES	RESPONSIBILITY
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	a) OHS  Possible adverse safety and health effects for workers, local population and employees due to:  - Possible injuries that employees may be exposed to due to reasons such as working at height, working with hazardous materials, and electrical tools;  - National and defined international occupational health and	<ul> <li>Local construction and environmental inspection authorities and communities will be informed about the planned activities.</li> <li>The public will be informed through stakeholder participation, in the media, and/or in public places through appropriate notifications.</li> <li>All necessary legal permits for construction and/or improvement will be obtained.</li> <li>Regular site inspections will be conducted by the Project Implementation Unit (PIU) and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations, including the regulations regarding building fire protection, and the requirements of World Bank standards.</li> <li>Detailed information and analyses regarding occupational health and safety are included in the Occupational Health and Safety Plan prepared for the same campus.</li> </ul>	Project Implementation Unit (PIU) Consultant

#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

safety in the workplace -Failure to comply with national and defined international occupational health and safety requirements in the workplace;

- In areas where the underground natural gas pipeline passes, the Natural Gas Provider Company is responsible for the necessary work before the start of Phase II (Construction Phase) of the projects. All processes related to the Natural Gas Pipeline will be carried out by the Service Provider Local Distribution Company, and before the Site Handover, all necessary conditions will be created with all checks and tests completed entirely, and the delivery will be made as specified in the projects. For all processes related to the natural gas pipeline, the Property Owner must apply in accordance with the relevant legislation. Therefore, neither the Consulting Firm nor the Contractor will intervene in any way in the natural gas pipeline.
- The Contractor shall immediately inform the MoEUCC in the event of a significant incident. MoEUCC will report all types of significant incidents (such as accidents, leaks, deaths, etc.) to the World Bank within 48 hours and will submit an incident investigation report along with a corrective action plan to the World Bank within 30 business days.
- Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations and the requirements of the World Bank standards.
- Health and safety measures and environmental measures related to the restructuring of the public building will be detailed in the projectspecific Waste Management Plan and Occupational Health and Safety Management Plan.
- Occupational Health and Safety Plan for Istanbul Technical University Ayazağa Campus - Faculty of Aeronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines and Ayazağa Girls'Dormitory was prepared by the Consultant. Work will be carried out in the field in accordance with the measures determined in the OHS Plan. The Contractor company will prepare its own OHS plan for the

Consultant

PIU

Contractor

work it will carry out taking into account the Occupational Health and	
work it will carry out, taking into account the Occupational Health and Safety (OHS) Plan prepared by the Consultant.	
Before construction work begins, a Risk Assessment study will be	
conducted for all tasks to be performed. Relevant procedures and plans, including Risk Assessment, safety procedures, training, monitoring, case investigation, and reporting, as well as Emergency Plans, will be included in Health and Safety Plans (Health and Safety Plans, prepared by audit consultants and developed by contractors by adding site-specific risk assessments, procedures, instructions), (including Asbestos Work Requirements and Precautions presented in Annex-8 of the ESMF (https://webdosya.csb.gov.tr/kamuguclendirme/menu/SREEPB-	Consultant Contractor
p175894 csyc final100521mayis 20210510070430.pdf-) such as the Asbestos-Containing Structure Dismantling Procedure.  • Proper signage will be used on construction sites to inform workers of basic rules and regulations they should follow.	Contractor
Occupational Health and Safety (OHS) training will be provided to employees, identifying potential risks related to the work site and	

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#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

tasks, and weekly and monthly site safety meetings will be conducted.

- The contractor formally acknowledges that all works will be carried out in a safe and disciplined manner, designed to minimize the impact on residents and the environment.
- The contractor will appoint personnel/responsible/experts with relevant certificates and experience for occupational health and safety.
- The contractor will provide a safe working environment for workers and, before construction activities, will supply personal protective equipment (PPE) (such as helmets, masks, safety goggles, safety harnesses, and safety boots as needed) in accordance with international best practices and Turkish regulations.
- An appropriate environment for workers to rest during breaks will be provided by the contractor firm, and this will be arranged and approved in consultation with building managements, taking into account the number of workers and break times.
- Eating places for workers will be established in areas determined by building technical units with the written permission and approval of the student dormitory management.
- Changing areas (lockable) for employees will be provided inside the building with the written permission and approval of the ITU Ayazağa Campus management. The areas in question will be determined by the building technical staff and the use of areas outside these areas is strictly prohibited. Employees should not keep their valuables in these areas, theft that may occur in the said area, etc. The contractor company will inform the employees that the building management bears no responsibility for the negativities. The issue in question will also be announced with warning signs.

#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

- Toilet needs for workers will be addressed through building infrastructures with the written permission and approval of the student dormitory management. In case the existing infrastructure cannot be used, WC containers with all necessary hygiene materials will be provided by the contractor. However,
  - Employees will be able to use the toilets allowed/allocated for them in the building. The contractor will inform their employees about which toilets are allowed/allocated based on the number of employees. Monitoring and control regarding this restriction will be the responsibility of the contractor.
  - The contractor will educate their employees on the proper use of these toilets in compliance with hygiene rules, and if any misuse is detected, the cleaning responsibility will be on the contractor.
  - The contractor will provide all necessary materials for hygiene that employees may need.
- The contractor will provide work uniforms that display the project name to easily distinguish the employees.
- Employees are strictly prohibited from engaging in discussions with building technical units and campus users for any reason. In case of any problems related to individuals or activities, employees will immediately report three situations to their supervisor (The responsible supervisor's contact information will be provided to all employees by the contractor). The contractor will document and report such situations to the consultant. Any decision/action related to this process will be carried out in accordance with the knowledge and approval of the building management.
- If necessary, approval from the building management will be obtained for night work. All activities will be conducted in accordance with both the Occupational Health and Safety Law (Official Gazette dated June

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#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

30, 2012, and numbered 28339) and the relevant regulations, as well as the Environmental, Health, and Safety (EHS) Guidelines of the World Bank Group (WBG).

- In the event of any epidemic or pandemic/infectious disease, guidance, guidelines, and recommendations provided by the Ministry of Health, Ministry of Labor and Social Security, and the World Health Organization will be followed. All relevant measures for occupational health and safety for both employees and workplaces will be implemented.
- Entry of third parties without a specific role in the construction site will be prevented.
- The names of personnel who will be on duty at the construction site, along with the necessary training certificates, will be submitted to the Consultant in a list. Employees with appropriate training and personal protective equipment will enter the construction site with identification cards.
- Individuals under the age of 18 will not be allowed to enter the construction site.
- Smoking areas on the construction site will be determined by the contractor.
- Eating, drinking, break/rest, toilet, and sink facilities will be provided in designated areas within the building where the work is being carried out, as indicated by technical units. This information will be communicated to the student dormitory management. Workers involved in the project will not leave the allocated areas.
- Hygiene materials necessary for workers will be provided by the contractor. The existing sewer infrastructure in the region will be used for wastewater.

- Packaged water (plastic bottle, glass bottle, etc.) will be provided for workers as drinking water.
  - Clean potable water will be provided through the existing building's infrastructure. Consumption of this water as drinking water will be prohibited. The contractor will provide personal protective equipment (PPE) in compliance with Turkish regulations, including international best practices and health and safety measures related to pandemics provided by the Ministry of Health and the Ministry of Labor and Social Security. This includes monitoring and controlling the use of PPE (such as always wearing helmets, using respiratory protective equipment when necessary, protective eyewear, full-body safety harnesses, foot protection, etc.).
  - PPE and working clothes will be stored separately from employees' personal clothing, and closed dressing rooms will be established within the building for this purpose.
- In case of work accidents resulting in lost workdays, accident investigations will be conducted and reported.
- Workers who work at heights (such as façade insulation, roof insulation, roof-mounted PV applications, etc.) will receive theoretical and practical training on working at heights. The health report of individuals working at heights will indicate their suitability for working at heights, as determined by the workplace physician. Before work commences, a plan for working at heights will be prepared, and work permits will be obtained. Work at heights will be carried out under the supervision of competent personnel and occupational safety experts. Fall protection systems and working-at-height equipment will be selected in accordance with relevant regulations, and their maintenance, inspection, and repair will be performed by trained personnel.

- All work equipment to be used will undergo regular inspections and maintenance as required, their compliance with standards and CE markings will be verified, and relevant records will be maintained. Otherwise, the equipment will not be allowed into the work area. Employees responsible for using the equipment will receive job-specific training.
- Maintenance forms for field equipment will be provided, regular maintenance and repairs will be carried out, and individuals responsible for maintenance and repairs will be designated.
- When new equipment and innovations are introduced in the work process, risk assessments will be updated, and all personnel will be informed and trained on any changes.
- Before entering the site, all lifting equipment, pressure vessels, and boilers will undergo periodic inspections, and access approval will be granted after inspection by the consultant.
- All machinery, equipment (including scaffolding), and hand tools entering the site will be checked for compliance with TSE standards and CE certification. Entry approval will be granted by the consultant after verification.
- Planning for material procurement, shipping processes, and storage areas will be ensured.
- For every ten (10) workers working in the same building, the contractor will have one (1) employee with a First Aid Certificate, and if the number of workers is less than 10, at least one (1) first aider will be present. Each team working in different buildings will be evaluated separately.
- storage areas for materials will be established. Chemical substances will be brought to the site after checking their safety data sheets.

- Workers without vocational competency certificates will not be employed.
- All employees will start work only after completing basic OHS training and orientation. Training will be updated as required by regulations.
- Renovation areas inside and outside the buildings will be marked with warning tapes. Sufficient warning signs will be installed to restrict access to these areas.
- Visitors will not be allowed to approach renovation areas. However, in necessary cases, building technical staff with expertise will be allowed to enter these areas under the supervision of authorized employees to monitor the process, take necessary safety measures, and use appropriate personal protective equipment (PPE). Training documents will be prepared for those entering the site under the supervision of authorized employees, and they will receive training before entering the site.
- A construction method and risk assessment will be conducted for every activity to be carried out in the field.
- A work permit system will be established for hazardous activities such as night work, working at heights, excavation work, welding work, etc.
- A lockout-tagout system will be established for work on energized lines, such as maintenance and repair work involving hazardous voltage. Employees will receive special training on this system.
- A discipline enforcement system for OHS non-compliance in the field will be established, and all employees will receive training on this matter.
- Construction activities are primarily scheduled during daylight hours. However, if night work is required, the entire work area, access paths, and hazardous areas shall be well-lit.

- Procedures will be prepared for situations that may occur during construction activities and require emergency response, such as fires, earthquakes, chemical spills, etc., to ensure control of public and environmental health. These procedures will be shared with all employees.
- If there will be a disruption in electrical, water, or natural gas supply, whether short or long-term, due to construction activities, the necessary security measures will be taken, and building users will be informed of the interruption well in advance.
- Employee health screenings, entry documents (personnel files), training
  documents, PPE delivery records, approved logbooks, and all other
  documents and records required by OHS regulations will be kept in the
  workplace. All these documents will be ready for presentation during
  inspections by the Consultant and the Ministry.
- An organizational chart outlining roles, responsibilities, and contact information for OHS will be created under the OHS heading.
- In case of changes to public building entrances during construction, appropriate structures for disabled users will be provided.
- The OHS Plan to be prepared will also address public health, and a person and position responsible for communication with building users and the local community will be defined in the plan.
- Records of all activities and incidents (meetings, inspections, supervision, training, accidents, fires, etc.) conducted during the construction phases will be kept.
- In accordance with the SREEPB Project Labor Management Procedure and covering all contractors and subcontractors:
- The contractor and all subcontractors will create a written and signed social policy/commitment statement, confirming that they will not

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		engage in forced labor, child labor, or employ uninsured workers. They will also commit not to discriminate among workers based on age, gender, religion, language, race, etc., and will refrain from the use of force, abuse, bullying, insults, and humiliation. This document will emphasize that all contractor employees should pay attention to these aspects in their relationships and communication with each other.  • Measures will be taken to prevent the spread of infectious diseases (including sexually transmitted diseases and infections such as HIV) and non-communicable diseases arising from the performance of construction works. In this context, particular attention will be given to the awareness that different groups of the community, especially vulnerable and fragile groups, may be at varying levels of risk. Preventive and mitigating measures will be implemented to address the spread of infectious diseases that may arise from temporary or permanent labor mobility associated with the contract.	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	b) OHS  Possible adverse health effects on workers, facility users, children, and the general public due to asbestos fiber and dust emissions during the removal, transportation, and final disposal of asbestos layers	<ul> <li>The project site will be illuminated throughout the night.</li> <li>No waste will be disposed of in the surrounding area, and this area will be kept clean. Waste must be collected and removed from the construction site.</li> <li>Any broken glass during the process will be immediately cleaned.</li> <li>Work areas will be separated from inhabited areas of the building using physical barriers.</li> <li>All procedures related to asbestos are outlined in Appendix-8 of the Environmental and Social Management Framework document. The work will be carried out in accordance with the requirements of Annex 8 and the Regulation on Health and Safety Measures in Work with Asbestos and other relevant legislation.</li> <li>Additional cleaning will be added to the building's cleaning schedule to eliminate the excess dust and dirt generated by the demolition work.</li> </ul>	Contractor

	• To minimize the risk of misuse, leaks, and accidental human exposure, the storage, transportation, and distribution of hazardous materials will be carried out in accordance with safety guidelines.	
	<ul> <li>Old windows and doors will be temporarily stored in a secure location designed to prevent unauthorized access.</li> </ul>	
	Regular maintenance will be conducted on vehicles to minimize the risk of accidents due to equipment failure or early breakdowns.	
	Both training sessions and incidents (such as fatalities, lost-time accidents, leaks, fires, etc.) will be documented.	
	• In the event of a significant incident, the contractor will immediately inform the MoEUCC. The MoEUCC will report any significant incident (such as accidents, leaks, fatalities, etc.) to the World Bank within 48 hours and submit an incident investigation report, along with a corrective action plan, to the World Bank within 30 working days.	
	The contractor will be responsible for the safety of all personnel and individuals within the construction site from the moment construction work commences.	
	• In the event of any damage occurring during construction work, the Contractor will compensate for all damages incurred by the Beneficiary Institution, Employer, and/or third parties.	
c) Safety	• During the works, the safety regulations of the Ministry of Labor and Social Security of the Republic of Türkiye and the rules of the Ministry of Health will be taken into consideration. The relevant regulations will be used as a general reference during the construction.	Contractor
	• The Contractor will have qualified personnel specifically responsible for safety and protection against accidents on the site. This person will be responsible for the Contractor's entire workforce and labor, as well as the Project Manager, the employer's personnel on the site, equipment, offices, and other facilities. This individual will possess the necessary qualifications for the job, have the authority to give instructions, and be	

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		capable of taking all necessary measures to prevent accidents. The Contractor will establish a dedicated team for this purpose.	
		• The Contractor will take all necessary safety precautions to ensure that the materials and equipment to be used in the spaces where construction will take place are not damaged.	
		• A security team consisting of an adequate number of guards will cooperate with the City Security Forces and strictly follow all rules and instructions received from them. The Contractor will have at least one night guard for the construction site.	
		• The scrap parts of machinery, equipment, and systems that have been replaced will be delivered to the building management without causing any damage.	
		• These machines, equipment, and system parts will be transported by the contractor to the area requested by the building management (inside the building and/or within the campus). The transportation and delivery process will be documented with a delivery report. As of the date when this report is signed by both parties, the responsibility for the scrap parts will belong to the building management.	
	d) Waste Management	General Information	
Renovation and Retrofitting Works for Seismic Resilience and	Various waste streams and improper waste management may lead to	• The PIU and the consultant will monitor the implementation of environmental and social impact mitigation measures as specified in the Environmental and Social Management Plan through site inspections.	PIU
Energy Efficiency Improvement in Public Buildings	potential adverse environmental and health effects (improper waste management can	• Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations as well as the requirements of the World Bank's ESF.	Consultant

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result in direct and indirect pollution of water and soil and can affect air quality).	<ul> <li>The Waste Management Plan will be prepared by the consultant as specified in Annex 9 of the Environmental and Social Management Framework<sup>7</sup>.</li> <li>Waste collection and disposal routes and sites for all waste types expected to arise from renovation, demolition and construction activities will be defined in site-specific Waste Management Plans.</li> </ul>	Consultant
	<ul> <li>Daily visual site inspections will be conducted by the consultant to monitor the implementation of mitigation measures.</li> </ul>	
	• All types of waste will be separated at the source and collected separately during construction activities. The waste will be transported to temporarily designated waste storage areas in compliance with project and regulatory requirements, as determined in consultation with the beneficiary's knowledge. The temporary storage period is limited to 6 months.	
	• Temporary storage areas will be determined by the contractor company by obtaining permission from the Istanbul Technical University Ayazağa Campus Rectorate Administration and the consultant will be notified of the areas in question.	Contractor
	• If a protocol is signed between the contractor and the beneficiary institution, the existing waste management system can be used. However, through the protocol, the contractor will be responsible for covering the costs associated with its own waste.	Contractor
	• The contractor will, if possible, reuse and recycle appropriate and feasible materials (except asbestos).	
	Documents related to waste disposal and recycling will be regularly maintained and recorded. A Waste Record Information Form will be prepared for keeping these records.	

<sup>7</sup> https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894 csyc final100521--mayis 20210510070430.pdf

• During construction activities, when vehicle tires need replacement, old tires will be disposed of through a tire distribution and sales business using licensed vehicles for transportation.

# **Solar Panels**

- Unused and/or end-of-life solar panels will be temporarily stored in an area determined by the beneficiary for a maximum of 6 months, in a way that does not pose an OHS and environmental risk.
- PV panels taken to licensed facilities with licensed vehicles after temporary storage will be primarily recycled, and those that cannot be recycled will be disposed of in accordance with the relevant legislation.

# **Excavation, and Debris Wastes:**

- In the event of designated materials resulting from dismantling activities, a document will be obtained from the building management confirming the delivery of the materials.
- The collection of construction/demolition wastes and their priority recycling, especially for use as infrastructure materials, will be addressed. Excavation wastes will be sent to the relevant municipal waste storage facility. A formal letter from the Municipality stating that the wastes will be accepted at the site will be obtained and submitted to the Administration.

# **Waste Batteries and Accumulators:**

 Waste batteries and accumulators will be transported to authorized disposal facilities for waste batteries and accumulators within the municipal boundaries.

# **Hazardous Wastes:**

• In the temporary storage of hazardous wastes on the project site, the wastes will be kept in secure, leak-proof, and internationally accepted standard containers within the project area. The containers will be

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labeled as hazardous waste, and information such as the waste code, quantity, content, characteristics, protection conditions, and storage date of the stored substance will be specified on the containers. Hazardous substances can be stored temporarily for a maximum of 6 months. (Temporary storage areas will be determined by the contractor by the regulations, with permission obtained from the University Administration, and these areas will be reported to the consultant.)

- Containers storing hazardous materials and waste oils will be placed in impermeable concrete areas to prevent spillage and leakage into the soil.
- Harmful substances such as paints with toxic content, solvents, or lead-based chemicals will not be used.
- The management of hazardous waste will be carried out in accordance with the Waste Management Regulation.
- Possible hazardous chemical substances and wastes that may occur on the construction site will be sent to licensed disposal facilities using the online program Integrated Environmental Information System (E-ÇBS) of the Ministry of Environment, Urbanization, and Climate Change.
- Spill containment and leakage absorbent pad kits will be readily available in the work areas. All personnel in charge will undergo training on protection and emergency response related to hazardous chemical spills and leaks.
- In the event of medium and large-scale environmental accidents, an accident investigation will be conducted and reported.
- Used fluorescent lamps removed during renovation/construction work
  will be disposed of at licensed facilities. The necessary documents for
  transportation and disposal of the material will be kept at the
  construction site and will be presented to the MoEUCC and the World
  Bank upon request.

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# **Domestic Waste:**

- Domestic wastes will be separated at the source (plastic, glass, paper, etc.) and efforts will be made to recycle materials that can be recycled. Employees will receive training on proper waste separation.
- Waste that cannot be recycled will be collected in sealed sanitary waste bins, and it will be sent to the sanitary landfills through the Sariyer Municipality's solid waste collection system.

## **Asbestos:**

- If asbestos is present on the project site, it will be clearly marked as a hazardous material.
- In the case of asbestos being present on the project site, it will be properly stored and sealed to minimize its impact.
- When asbestos removal is necessary, a wetting agent will be used to keep asbestos dust to a minimum before the removal.
- The entire procedure to be applied regarding asbestos is included in Annex 8 of the Environmental and Social Management Framework document (<a href="https://webdosya.csb.gov.tr/db/kamuguclatma/menu/kadev-p175894\_csyc\_final100521--mayis\_20210510070430.pdf">https://webdosya.csb.gov.tr/db/kamuguclatma/menu/kadev-p175894\_csyc\_final100521--mayis\_20210510070430.pdf</a>). The Contractor will act by the content in question.
- If asbestos material needs to be temporarily stored, the waste should be kept in secure containers and properly labeled. Security measures will be taken to prevent unauthorized removal from the Campus.
- Removed asbestos will not be reused and will be disposed of in accordance with national regulations and sent to licensed facilities. Necessary documents for transportation and disposal of the material will be kept at the construction site and will be presented to the MoEUCC and the World Bank if requested.

		Paints containing toxic components, solvents, or lead-based paints will not be used.	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency  e) Pollution Prevention Demolition and construction active		<ul> <li>Site-Specific Pollution Prevention Plans to be prepared by the Contractor will be reviewed by the Consultant and approved by PIU.</li> <li>Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations as well as the requirements of the World Bank ESF.</li> </ul>	PIU Consultant Contractor
	<i>'</i>	<ul> <li>Air quality related to dust generation is addressed in the "g. Air Quality/Emission" section of this document.</li> <li>Hazardous substances will be secured in the designated storage area to prevent spillage and tipping.</li> </ul>	
		Containers for partially used chemical materials will have lids and will be tightly closed when not in use.	
Improvement in Public Buildings	can lead to pollution on construction sites	Disposal of residual (leftover) concrete from concrete mixers will not be allowed in the construction site, its surroundings, or access roads to the construction sites. Concrete mixer drivers will be trained on this matter.	Yüklenici
		• In case of any hazardous substance or hazardous waste leakage, leakage prevention methods will be applied to limit the exposure area.	
		Leak kits will be placed at appropriate points on construction sites.	
		• In the event of any leakage, workers who will respond to such incidents will be identified and trained in emergency response to leaks.	
		Training records will be maintained at construction sites.	

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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings

# f) Noise

The presence of workers on the construction site, renovation/construction activities, and the movement of transportation vehicles will increase noise and vibration levels.

- Regular site inspections will be conducted by PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations and World Bank ESH requirements.
- Noise during demolition and construction will be limited to specified periods as determined in the permit.
- During activities, the motor covers of generators, air compressors, and other electrical/mechanical equipment will be closed, and they will be placed as far away from residential areas as possible.
- Throughout the construction phase, the motor covers of generators, air compressors, and other mechanical equipment will be kept closed, and the equipment will be placed as far away as possible from student areas and other buildings on the campus not included in the project but located on the campus. The use of plastic wedges is mandatory for all such equipment to prevent excessive noise due to vibration. This should be considered in the selection of equipment.
- Impact noise resulting from construction activities will not exceed 100 dBC in the LC Max noise indicator as specified in the Environmental Noise Control Regulation. For occupational health and safety, the World Health Organization (WHO) has set exposure levels to noise at 70 dB within a 24-hour period and 85 dB for a 1hour period to prevent hearing impairment. Additionally, the World Bank Environmental, Health, and Safety Guidelines Table 1.7.1 stipulates that noise levels should not exceed 55 dB between 07:00-22:00 and 45 dB between 22:00-07:00 for residences/educational institutions and public institutions (https://www.ifc.org/content/dam/ifc/doc/2023/ifc-general-ehsguidelines.pdf). This will be taken into account during site inspections

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•	Following the start of construction, noise levels will be measured
	once inside and outside by accredited laboratories during the
	demolition process and the necessary precautions will be
	determined as a result of the measurements. If measurements
	exceed the levels allowed by legislation and WBG EHS Guidelines,
	measurements will be made at regular intervals every week.
_	As a regult of the maggiraments if necessary noise curtains will be

- As a result of the measurements, if necessary, noise curtains will be placed to prevent nearby settlements from being affected by noise.
- Site assessments will be conducted according to the Environmental Noise Guidelines for the WHO European Region.
- If there is an increase in the noise level during the construction phase, measures will be taken to ensure that machines are not operated simultaneously.
- The work schedule of works that create high levels of noise will be planned in coordination with the University Administration.
- The work schedule of works that create high levels of noise will be planned in coordination with the university administration.
- Measures such as using new model vehicles as much as possible will be taken to minimize noise levels.
- The unnecessary use of horns and sirens by vehicles transporting machinery, equipment, materials, and personnel within the scope of the project is prohibited. This rule applies to both within and outside the campus. Contact numbers will be provided on vehicles to address and resolve grievances related to such issues

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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	g) Air Quality/Emission:	<ul> <li>Debris will be kept in a controlled area and water will be sprayed to reduce debris dust. (Water will be supplied from the infrastructure of the campus area. In case of long-term water outage or if permission cannot be obtained from the Administration, water tanker may be used.)</li> <li>Following the start of construction, dust measurement will be carried out once by accredited laboratories indoors and outdoors during the demolition process. The principles for preventing air quality problems occurring during demolition activities will be determined in the Construction Methods (which will be prepared by the contractors and approved by the PIU).</li> <li>Renovation and retrofitting works will mainly take place within the building. Dust generated during scraping and stripping operations will be suppressed by continuous water spraying.</li> <li>In case of debris generation, a debris chute will be used after the first floor.</li> <li>The surrounding environment (sidewalks, roads) will be cleared of debris to minimize dust.</li> <li>Open burning of construction materials/waste substances will not be allowed at the construction site.</li> <li>Construction vehicles at the construction site will not be idled for an excessive period.</li> <li>When material needs to be transported, truck tops will be covered. The speed limit for such vehicles within the campus is set at 20 km/h.</li> <li>All vehicles to be used will have exhaust emission permits, and regular maintenance will be conducted on all vehicles or monitored for maintenance.</li> </ul>	Consultant Contractor
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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	<ul> <li>h) Water Quality</li> <li>Uncontrolled disposal of wastewater/waste generated at the construction site can affect the coastline.</li> <li>i) Soil Quality</li> <li>The mixing of hazardous substances and waste into the soil</li> </ul>	<ul> <li>Efforts will be made to minimize the storage or disposal of waste generated on the construction site.</li> <li>Since the campus is far away from water sources such as seas and lakes, it is not expected to have a negative impact on surface waters.</li> <li>Construction vehicles and machinery will only be washed in areas where surface runoff will not contaminate natural surface water bodies.</li> <li>The disciplined implementation of waste management mentioned in previous sections is necessary.</li> <li>All hazardous chemicals (including contaminated waste) will be stored in temporary storage areas that meet leakproof requirements.</li> <li>Before the use of chemicals, MGBFs (Material Safety Data Sheets) must be checked by the OHS Specialist and Occupational Health Physicians, and users need to be informed.</li> <li>Leak pads will be provided for point source pollution in the field (such as spilled paint, oil leaks from vehicles, etc.), and all employees will undergo leak and spill training. These trainings will be reinforced with exercises. At least one leak spill kit will be provided for each building and each mobile machine.</li> </ul>	Consultant Contractor
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	j) Required Resources	<ul> <li>Contractors will obtain the necessary permits from building authorities to use water from the public network for construction activities. In case of any issues with obtaining permits, water will be brought to the construction sites using tankers.</li> <li>Concrete will be sourced from locally licensed ready-mix concrete facilities.</li> <li>Permission will be sought from beneficiaries to use electricity for construction activities. In case permission cannot be obtained, electricity will be provided through generators procured by the Contractor. Records of electricity, fuel, and water consumption for</li> </ul>	Contractor

		construction activities, including generators, will be kept on the construction sites.	
	• Regular on-site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws, regulations, and the requirements of the World Bank standards.	PIU Consultant	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	nd   k) Community Health and Safety/Traffic and Pedestrian Safety	• The site inspections for every two months will be carried out by the PIU and for daily by the Consultant to ensure and monitor that all construction activities are carried out following national laws and regulations, the requirements of the World Bank standards and the Occupational Health and Safety Plan prepared for the activity.	
		• PIU will review and approve the site-specific Community Health and Traffic Management Plan prepared in accordance with the Occupational Health and Safety Plan.	
		• The Contractor will develop a Traffic Action Plan, taking into account the needs of people with disabilities, as prepared by the Consultant.	
		• In accordance with national regulations and the World Bank ESF, the Contractor will ensure the proper securing of the construction site and the regulation of construction-related traffic.	Müşavir Yüklenici
		• Signboards, warning signs, barriers, and traffic guidance will be clearly visible at the construction site, and the public will be alerted to all possible dangers.	
		• Traffic management systems and personnel training will be provided, especially for access to the construction site and heavy traffic near the construction site. Safe crossings and passages for pedestrians will be provided at intersections with construction traffic.	
		<ul> <li>Adjustments to working hours will be made based on local traffic patterns, such as avoiding heavy transport activities during peak hours or times when livestock is being transported.</li> </ul>	

Active traffic management will be carried out by trained and visible personnel at the construction site, if necessary, for the safe and comfortable passage of the public.	
<ul> <li>Construction sites will be surrounded by health and safety signs to prevent potential accidents.</li> <li>If there will be a disruption of electricity, water, or natural gas supply due to construction activities in the short or long term, advance notice will be provided to the building technical units, and approval will be sought.</li> <li>Construction sites will be separated and secured with warning/caution tapes to ensure safety.</li> <li>All types of vehicles operating during construction will be required to</li> </ul>	Consultant Contractor
<ul> <li>adhere to the specified speed limit.</li> <li>The surroundings and surroundings of the project site will be arranged with traffic signs and warning signs. The Traffic Action Plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the security-related measures to be taken will be specified</li> </ul>	Consultant Contractor

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in more detail in the Community Safety and Traffic Management Plan that the Contractor will prepare before starting work.

- Visibility of the project site will be ensured.
- Pedestrian paths and vehicle thoroughfares within the site will be separated from each other. These paths will be incorporated into the traffic plan.
- Local community, building visitors, and users will be informed about potential hazards and risks through warning signs and informational meetings.
- Users and other stakeholders will be informed about the measures to be taken in case of any outbreak, including the precautions taken, through appropriate media and printed materials and signs in accessible areas for the public (including work areas).
- Pedestrian paths and vehicle thoroughfares within the site will be separated from each other. These paths will be incorporated into the traffic plan.
- Activities that will affect regional traffic will be planned considering
  peak traffic hours as much as possible. All drivers involved in the
  project will be informed about road safety, speed limits, traffic rules to
  be followed during the project, and conditions to be observed.
- The weights of all vehicles used in the project will not exceed the limits specified in the relevant legislation.
- In the event of hazardous chemicals or waste storage on the site, the transfer of these wastes will be carried out by licensed carriers in a manner that does not pose a threat to public health.
- Special loads will use routes prepared in agreement with the relevant authorities. The specified routes will be programmed to prevent traffic congestion on the roads and will be published in advance to prevent possible inconvenience.

		All traffic organization will be discussed and planned in coordination with the relevant authorities.	
Operational phase impacts and risks	a) Waste Management Improper waste management with various waste streams can lead to possible adverse environmental and health effects (inadequate waste management can result in direct and indirect pollution in water and soil and can affect air quality).	Waste streams will be collected separately, stored, and disposed of through licensed companies in accordance with national regulatory requirements.	Relevant beneficiary institution
Operational phase impacts and risks	b) OHS risks  Maintenance and repair activities related to the proper functioning of the building can pose occupational health and safety (OHS) risks for workers.	<ul> <li>Relevant OHS risks will be reduced through the provisions specified in national legislation.</li> <li>Regular preventive measures and maintenance precautions for the proper functioning of the building (regular inspections and maintenance for any leaks on the roof, windows, doors, etc.).</li> <li>Keeping records related to the Main Design Project and relevant project documents for easy maintenance and renovation of any part of the building.</li> </ul>	Relevant beneficiary institution
Throughout the project lifecycle	Stakeholder Feedback (Suggestion, Grievance, Opinion)	• Grievances/opinion/suggestions related to construction activities will be collected at the site level by the responsible employee of the Construction Contractor through the forms provided in Annex III and Annex IV. These grievances will be recorded and submitted to the	PIU Consultant Contractor

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administration. Grievances will be closed using the Grievance Closure Form provided in Annex V.
The site supervisor of the Contractor will be provided with training on
the operation of the Grievances Mechanism by the Social Specialist of

- Corrective actions will be taken within 15 calendar days for grievances/opinions/suggestions collected under the project, and if the grievance period exceeds 15 days (the grievance period will not exceed 30 calendar days), this matter should be agreed upon between the Contractor/PIU and the complainant. At the end of the process, the applicant will be informed that the request has been closed.
- In cases of gender-based violence, sexual abuse, and harassment, proceedings will be conducted in accordance with the principle of confidentiality, taking into account the possibility of retaliation.
- In the event of encountering a sexual abuse crime, legal action (reporting the situation to law enforcement authorities, referral to the relevant public institution) will be initiated immediately with the consent and knowledge of the survivor of this crime. In the event of such a situation, the PIU Social Specialist will be informed on the same day.
- The Contractor will follow the GM Procedure of the SREEPB Project in all activities related to GM.
- All personnel working within the SREEPB Project (PIU, Consultant Firm, Contractors) can report their grievances/opinions/suggestions to the Administration and/or the World Bank following the process in GM outlined in the Labour Management Procedure for SREEPB Project.
- The Contractor will announce the contact information specified in this report for the collection of suggestions and grievances using information boards allocated to the outside and inside of the buildings (at least one for each floor).

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	• The principles for receiving feedback are explained under the "4. Stakeholder Engagement and Grievance Mechanisms" title of this document.	
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# 6. Environmental and Social Monitoring Plan

Table 7: Environmental and Social Monitoring Plan

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When  parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility	
Renovation and R	Renovation and Retrofitting Works Site Preparation Activities					
Community Health and Safety Management and Implemented Protective Measures	Around the project site	Visual Inspections Site Inspection Availability and Implementation of Active Community Health and Traffic Management Plan	At the beginning of the renovation/reinforce ment works (first day)  Every working day throughout the project activities	To minimize health and safety risks and mechanical injuries to local communities	<ul><li>Contractor</li><li>Consultant</li></ul>	

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Occupational Health and Safety (OHS) protection measures for construction site workers	Project site and buildings near the project site	Visual Inspections Site Inspection Availability and Implementation of OHS Plan	Every working day throughout the project activities	Minimizing occupational health and safety risks for workers, especially those involved in removing asbestos-containing roof covers, through the provision of protective equipment and clothing.  Compliance with the Occupational Health and Safety Law, relevant regulations, notifications, directives, and other regulations.	<ul><li>Contractor</li><li>Consultant</li></ul>
To avoid and minimize safety and health risks for individuals affected by the project	In the building and at the project site	Visual Inspections	At the beginning of the renovation/retrofittin g work and continuously every working day	Preventing Post Activation Potential (PAP) injury due to inhalation of asbestos fibers or other construction dust.	<ul><li>Contractor</li><li>Consultant</li></ul>

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What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
The start and completion time of Renewal/Retrofitt ing works, especially the removal time of existing parts containing asbestos	At the project site	Site Inspection Review of document records Visual Inspections	Every day (In case asbestos is detected)	To avoid environmental, health, and safety risks Compliance with the Regulation on Health and Safety Measures in Asbestos Work	<ul> <li>Contractor</li> <li>Consultant         Asbestos Removal        Specialist       </li> </ul>

Renovation and Retrofitting Construction Works

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Occupational Health and Safety (OHS) Protection Measures for Site Workers (Working at Heights, Working with Hazardous Materials, Working with Rotating Equipment, Working with Electrical Devices, etc.)	Project site  Buildings near the project site	Verification of Relevant OHS Certifications and Documents for Trained Workers Visual Inspections for the Use of Protective Equipment  Implementation of the OHS Plan and Site-Specific Health and Safety Instructions  Site Inspections  Record Verification	Before starting demolition work Every working day throughout the project activities	Minimizing risks to workers' occupational health and safety  Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars and other regulations	<ul><li>Contractor</li><li>Consultant</li></ul>

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Manufacturing, Operation and Delivery (pipeline manufacturing and construction)	Project site	Visual checks, Field Control Records, Required Tests, Control of Personnel Adequacy by the relevant authority	During the relevant manufacturing process in the project and when the manufacturing is completed	Confirming that pipeline construction is complete before delivery. To prevent a possible disaster after production and delivery to the end user.	<ul> <li>Beneficiary         Institution     </li> <li>Service         Provider         Institution OHS         Department     </li> <li>Advisor</li> <li>Contractor</li> </ul>
Employment and working conditions	Project site	Final OHS Plan Review Site Inspection Grievance Mechanism (Feedback)	Every working day during the project activities	Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars and other regulations	<ul><li>Contractor</li><li>Consultant</li></ul>
Health and Safety records	Project site	Health and Safety construction site documentation control	Weekly	Ensuring that necessary Occupational Health and Safety records are kept at construction sites	<ul><li>Contractor</li><li>Consultant</li></ul>

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Air Quality	Project sites, across access roads Project site Buildings near the project site	Site Inspection Measurements to be carried out in case of grievance	Every working day throughout the project activities	Minimizing dust generation to avoid negative impact on local communities and the environment Air Quality Assessment and Management Regulation	• Contractor Consultant
Noise	Project site  Buildings near the project site	Visual control of the implementation of established noise abatement measures, including declarations of methods followed  Monitoring at the nearest building receiver points with a noise-measuring device  Site inspections  Measurements to be carried out in case of grievance	Every working day during construction activities	Minimizing noise to avoid negative impact on local communities and the environment  Compliance with Environmental Noise Control Regulation	<ul><li>Contractor</li><li>Consultant</li></ul>

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Waste Management	Project site	Waste Records Site Inspection Visual Inspections	Every working day during construction activities	Prevent pollution to protect construction workers, beneficiaries' employees, local communities and the environment	<ul><li>Contractor</li><li>Consultant</li></ul>
Domestic Wastes	Project site	Waste Records Site Inspection	Throughout the project lifecycle/Daily	<ul> <li>Regulation on Control of Packaging Wastes</li> <li>Waste Management Regulation</li> </ul>	Contractor
Hazardous Wastes	Project site	Waste Records Site Inspection Visual Inspections	Throughout the project lifecycle/Daily	Separating hazardous waste (adhesive, paint, insulation material, packaging waste) from non-hazardous waste and biodegradable waste	<ul><li>Contractor</li><li>Consultant</li></ul>

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Identifying asbestos- containing waste, packaging it properly, labeling it as hazardous waste	At project construction sites  Before starting removal/dismant ling work	Identification of asbestos-containing waste according to the waste list  Site inspection  Review of document records	Throughout the project lifecycle/Daily In case of detection	• Regulation on Health and Safety Measures in Working with Asbestos	• Consultant
Proper temporary storage, packaging and labeling of the extracted waste	Project site	Waste Records Site Inspection Visual Inspections	Throughout the project lifecycle/Daily	To minimize injuries, To prevent environmental pollution, Ensuring that inventory is kept properly.  •Waste Management Regulation	<ul><li>Contractor</li><li>Consultant</li></ul>
Excavation and Construction Waste	Project site	Visual inspection  Transport records  Site inspection	After the removal of all parts of the buildings containing hazardous materials Throughout the project lifecycle/daily	Ensuring that construction debris is disposed of in accordance with applicable national regulations and the Project's Demolition plan  • Regulation on the Control of Excavation Soil, Construction and Demolition Waste	<ul><li>Contractor</li><li>Consultant</li></ul>

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What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Soil Pollution	Project sites, external storage areas and access roads	Training records check (spill, leak training)  Chemical absorbent kit control (Field, mobile work machines)  Site Inspection	Throughout the project lifecycle/daily	Protection of soil and groundwater quality.  • Regulation on Soil Pollution Control and Contaminated Sites by Point Sources,  • Water Pollution Control Regulation  • • Regulation on the Protection of Groundwater Against Pollution and Deterioration	<ul><li>Contractor</li><li>Consultant</li></ul>
Vehicle and Pedestrian Safety	Project sites and access roads	Visual inspection  Using appropriate signs and signals  Site inspection  Implementation of Community Health and Traffic Management Plan	Daily	Protecting construction workers, their beneficiaries' employees, and local communities from injuries and deaths related to traffic accidents.	<ul><li>Contractor</li><li>Consultant</li></ul>

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When  parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Stakeholder engagement	Istanbul Technical University Ayazaga Campus	Number of Stakeholder Engagement Meeting participants (by gender distribution)  Promotional materials related to the project (announcement posters, webcasts, etc. control)	Daily	Fulfillment of grievance mechanism requirements.	<ul><li>PIU</li><li>Contractor</li><li>Consultant</li></ul>

Grievance Mechanism	Project site  • Buildings near the project site	Grievance and Suggestion Forms  Grievance Close-out forms  Total number of grievances (pending/resolved and broken down by gender distribution)  Number of grievances received  Number of resolved grievances  Grievance Log  Availability of announcement posters regarding the Grievance Mechanism (GM)  The physical condition of suggestion and grievance boxes	Weekly (During the life of the project)	<ul> <li>Environmental Social Management Plan (ESMP)</li> <li>Grievance Mechanism (GM)</li> <li>Stakeholder Engagement Framework (SEF)</li> <li>Stakeholders who are directly or indirectly affected by the project can bring forward their grievances/opinions/suggesti ons regarding project activities, contribute to the project and benefit from the project at the highest level.</li> </ul>	<ul><li>Contractor</li><li>Consultant</li><li>PIU</li></ul>
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What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
		Suggestion, condition of grievance boxes locking mechanisms			
Renovation/Retro	fitting Works Ope	ration Process			
Waste streams	Renovated/Retr ofitted buildings	Implementation of waste management requirements onsite	Regularly (throughout the project lifecycle)	Ensuring proper collection and disposal of waste in accordance with national legal requirements	ITU Ayazağa Campus Rectorate
Health and Safety	Renovated/Retr ofitted buildings	Regular inspections and maintenance of the roof, windows, doors, leaks, etc.	Regularly (throughout the project lifecycle)	Ensuring the health and safety of building users	ITU Ayazağa Campus Rectorate

# 7. Duties and Responsibilities

Table 8: Task Distribution List

RESPONSIBLE PARTY	RESPONSIBILITY
MoEUCC /PIU	<ul> <li>Implementation and monitoring of the project, and utilization of funds.</li> <li>Employment of at least one full-time Environmental, Social, and Occupational Health and Safety (OHS) specialist.</li> <li>Conducting necessary correspondence with official authorities and ensuring follow-ups.</li> <li>Supervising and ensuring compliance of Environment and Social Management Plans (ESMPs) with both national regulations and WB policies specific to the project.</li> <li>Presenting the prepared ESMPs to the WB after relevant checks.</li> <li>Establishment of a Grievance Mechanism.</li> <li>Organizing and conducting project informational meetings.</li> <li>Guiding consultants and contractors.</li> <li>Summarizing environmental and social issues related to project implementation in regular progress reports submitted to the WB.</li> <li>Coordinating and liaising with WB's inspection missions regarding the evaluation of project implementation in terms of environmental and social mitigation policies.</li> <li>Supervising the contractor's ESMP implementation and documenting necessary performance, suggestions, and future activities as part of the general project audit.</li> <li>Ensuring the contractor corrects the application if ESMP is not followed and informing the WB about the issue.</li> <li>Assisting the consultant if needed to obtain necessary permits throughout the project.</li> <li>Reporting any significant events (such as accidents, leaks, deaths, etc.) to the World Bank within 48 hours and submitting an incident investigation report with a corrective action plan within 30 working days.</li> </ul>
CONSULTANT	<ul> <li>Conducting a preliminary site assessment before the project starts,</li> <li>If at least one Environmental, one Social and one OHS expert is employed full-time</li> <li>Preparation of the project-specific ESMP and OHS Plan,</li> <li>Monitoring, evaluating and submitting to the Administration the activities defined as the responsibility of the contractor in the ESMP and OHS Plan,</li> <li>Ensuring the operation of the Grievance Mechanism established by the Ministry,</li> <li>Providing reports to the MoEUCC on the project and ESMP processes,</li> <li>Review and approval of Construction Methods prepared by the contractor,</li> <li>Application to the energy distribution company for the installation of PV,</li> <li>Providing training for the contractor (Environmental Impacts, Waste Management, OHS Plan Implementation and Monitoring Training, Response to Environmental Emergencies, Energy Efficiency, Stakeholder Engagement and Information Activities, Code of Conduct, Grievance Mechanism, Gender-Based Violence/Sexual Exploitation/Sexual Abuse/Sexual Harassment, Lockout-Tagout Training (LOTO), Work Permit System Training, Conservation of Cultural Assets)</li> </ul>

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#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

- Employing at least one full-time Environment, one Social and one OHS specialists,
- Appointing an experienced Environmental and OHS Officer for the comprehensive management and monitoring of the site-specific ESMP and OHS Plan.
- Implementing laws, regulations, and rules related to ESMP and OHS Plan attached to the tender documents as defined by the Consultant.
- Implementing relevant laws and regulations mentioned in the tender documents appropriately.
- Updating ESMP and OHS Plan content in coordination with the Consultant during the implementation of ESMPs and OHS Plan in the field as necessary.
- Preparation of the OHS Plan for the activities to be carried out, taking into account the OHS Plan prepared by the Consultant, Monitoring the field activities defined in the ESMPs prepared specifically for the project at regular intervals (daily, monthly, etc.),
- Preparation of the Community Safety and Traffic Management Plan

#### **CONTRACTOR**

- Operating the Grievance Mechanism in compliance with GM Procedure established by the Ministry.
- Examination of the ESMP prepared by the Consultant, commitment to implement it or preparation of the Contractor ESMP by the contractor and relevant sub-management plans of the ESMP (e.g. Waste Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Occupational Health and Safety plan, etc.) and preparation of work-specific construction/application methods,
- Preparing the Random Finding Procedure if deemed necessary.
- Preparing ESMP progress reports for MoEUCC.'s review.
- Applying to the authorized energy distribution company and local gas distribution company depending on the works to be carried out.
- Establishing the Employee Grievance Mechanism detailed in the Labor Management Procedure before any construction work starts and ensuring its transparent operation.
- Preparing the Labour Management Plan specific to the project considering the SREEPB Labor Management Plan (LMP)<sup>8</sup>.

 $<sup>{}^{8}\ \</sup>underline{https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894\_isgucuyonetimprosedurlerinihai\_tr\_20210527081102.pdf}$ 

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#### **ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN**

### 8. Reporting

The details regarding the reporting requirements of the project are presented within the Environmental and Social Management Framework disclosed on the website of the SREEPB Project (<a href="https://kamuguclendirme.csb.gov.tr">https://kamuguclendirme.csb.gov.tr</a>). A summary of this information is provided in Table 9.

Table 9: Reporting Process Requirement List

RESPONSIBLE PARTY	REPORTING PROCESS REQUIREMENT		
MoEUCC /PIU	<ul> <li>Preparation of the 6-month Project Progress Report and submission to the World Bank (WB).</li> <li>Reporting any significant events such as accidents, leaks, deaths, etc., to the World Bank within 48 hours and submitting an incident investigation report along with a corrective action plan within 30 working days.</li> <li>Monthly updates to the WB about the functioning of the Grievance Mechanism.</li> </ul>		
CONSULTANT	<ul> <li>Preparation of end-of-implementation ESMP reports for the Administration's review.</li> <li>Preparation of monthly of ESMP progress reports and submission to the Administration.</li> <li>Preparation of monthly of GM reports and submission to the Administration</li> <li>Immediate reporting of any important events such as accidents, leaks, deaths, sexual harassment/abuse to the PIU.</li> </ul>		
CONTRACTOR	<ul> <li>Monthly preparation of ESMP progress reports and submission for approval by the Consultant.</li> <li>Weekly preparation of GM reports and submission to the Project Manager of the Consultant.</li> <li>Immediate reporting of any significant events such as accidents, leaks, deaths, sexual harassment/abuse to the Consultant.</li> <li>Incident/Accident and Root Cause Analysis Reports will be prepared.</li> <li>Report content details are presented within the Environmental and Social Management Framework.</li> </ul>		

# Annex I Photos of the Buildings Considered within the Scope of the Project

ITU FACULTY OF AERONAUTICS and ASTRONAUTICS



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FACULTY OF NAVAL ARCHITECTURE AND OCEAN ENGINEERING



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#### ITU FACULTY OF MINES FACADE IMAGES



## Annex II: World Bank (WB) Environmental and Social Standard Summaries

Summary explanations of the World Bank Environmental and Social Standards (ESS) are included in Table 1.

Annex-2/Table 1: World Bank Environmental Social Standards Summary

ESS	SUBJECT	SUMMARY REQUIREMENT
		ESS1 aims to achieve environmental and social outcomes consistent with Environmental and Social Standards (ESS) by defining the responsibilities for assessing, managing, and monitoring environmental and social risks and impacts associated with a project supported by the World Bank through Investment Project Financing at every stage.
H 💙 📗	Assessment and Management of Environmental and Social Risks and Impacts	Environmental and social assessments will be conducted based on current information/data to define and describe the project and all related aspects and identify the nature of risks, impacts, and characteristics of mitigation measures.
		The assessment will prioritize disadvantaged and/or vulnerable social groups, evaluate potential environmental and social risks and impacts of the project, examine project alternatives, and identify ways to improve project design and implementation to mitigate adverse environmental and social effects. The environmental and social assessment will also explore opportunities to enhance the positive impacts of the project.
		According to ESS1, stakeholder participation is an integral part of the assessment, following ESS10. Under ESS1, the Borrower will systematically identify, evaluate, and manage environmental and social risks and impacts throughout the project's lifecycle.

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ESS	SUBJECT	SUMMARY REQUIREMENT
ESS2	Labor and Working Conditions	The objectives of ESS2 are as follows: (i) promote safety and health in the workplace; (ii) encourage fair treatment of project workers, prevent discrimination, and promote equal opportunities; (iii) protect workers, including vulnerable workers such as women, disabled individuals, children (according to ESS2 working age), migrant laborers, contracted workers, community workers, and primary supply workers, in an appropriate manner; (iv) prevent all forms of forced labor and child labor; (v) support the principles of organizing and collective bargaining freedom for project workers in a manner consistent with national law; and (vi) provide accessible means for project workers to raise workplace concerns. The applicability and scope of ESS2 depend on the type of employment relationship between the Borrower and project workers, as well as the environmental and social assessment described in ESS1. ESS2 requirements cover the development and implementation of a written Labor Management Procedure (LMP) that will be applicable to the project. These procedures will determine how project workers are managed in compliance with national law and the requirements of this ESS. They will also define (i) working conditions and employment, including non-discrimination and equal opportunity provisions, which will be monitored by project contractors following the procedures for labor management and behavior rules; (ii) protection of workers, including the prohibition of child labor and forced labor; (iii) the establishment and operation of a grievance mechanism for workers, including regulations for potential risks of Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH), and (iv) occupational health and safety. Furthermore, it will encompass (v) contracted workers, (vi) community workers, and (vii) primary supply workers.

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS3	Resource Efficiency and Pollution Prevention and Management	ESS3 recognizes that economic activities and urbanization largely pollute the air, water, and soil and consume limited resources at local, regional, and global levels, threatening people, ecosystem services, and the environment. The current and projected atmospheric concentration of greenhouse gases (GHG) threatens the well-being of current and future generations. Additionally, technologies and practices to achieve more efficient and effective resource use, pollution prevention, and avoidance of greenhouse gas emissions have become more accessible and available. This ESS establishes the requirements for addressing resource efficiency and pollution prevention and management throughout the project life cycle, consistent with Good International Industry Practices. Risks and impacts related to relevant ESS3 requirements, including raw materials, water use, air pollution, hazardous substances, and hazardous waste, are assessed, and proposed mitigation measures are included in the ESMF and ESMP.
ESS4	Community Health and Safety	ESS4 acknowledges that project activities, equipment, and infrastructure can increase communities' exposure to risks and impacts. Additionally, communities already exposed to the effects of climate change may be further exposed to impacts due to project activities.  ESS4 addresses health, safety, and security risks and their impacts on communities affected by the project, with special attention to individuals who could be harmed due to their specific circumstances.
ESS5	Land Acquisition, Restrictions on Land Use, and Involuntary Resettlement  (This ESS is not applicable to the SREEPB Project)	ESS5 recognizes that project-related land acquisition and restrictions on land use can have adverse effects on communities and individuals. Project-related land acquisition or restrictions on land use can lead to physical displacement (relocation, loss of housing or shelter), economic displacement (loss of livelihoods or access to assets resulting in loss of income sources), or both. The term "involuntary resettlement" refers to these effects when affected individuals or communities do not have the right to refuse land acquisition or restrictions on land use.

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ESS	SUBJECT	SUMMARY REQUIREMENT
ESS6	Biodiversity Conservation and Sustainable Management of Living Natural Resources (This ESS is not applicable to the SREEPB Project)	The environmental and social assessment specified in ESS1 will consider direct, indirect, and cumulative effects on habitats and the biological diversity they support. This assessment will consider threats to biological diversity such as habitat loss, degradation and fragmentation, invasive alien species, overuse, hydrological changes, nutrient loading, pollution, and incidental capture, as well as the anticipated impacts of climate change. It will determine the importance of biodiversity or habitats based on their global, regional, or national vulnerabilities and irreplaceability. It will also consider different values placed on biodiversity and habitats by stakeholders affected by the project and other relevant stakeholders.
ESS7	Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities  (This ESS is not applicable to the SREEPB Project)	This ESS acknowledges that Historically Underserved Indigenous Peoples/Sub-Saharan African Traditional Indigenous Communities have distinct identities and perspectives from mainstream groups in national societies and are often disadvantaged by traditional development models.
ESS8	Cultural Heritage	The Borrower will avoid impacts on cultural heritage. In situations where avoidance of impacts is not possible, the Borrower will identify and implement measures to address the impacts on cultural heritage in accordance with the hierarchy of mitigation. When appropriate, the Borrower will develop a Cultural Heritage Management Plan.
ESS9	Financial Intermediaries (This ESS does not apply for the SREEPB Project)	Financial intermediaries will establish and maintain an ESMS to identify, assess, manage, and continuously monitor the environmental and social risks and impacts of subprojects.

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ESS	SUBJECT	SUMMARY REQUIREMENT
ESS10	Stakeholder Participation and Information Disclosure	This ESS recognizes the importance of open and transparent engagement between the Borrower and project stakeholders as a fundamental element of good international practice. Effective stakeholder engagement can enhance the environmental and social sustainability of projects, strengthen project acceptance, and significantly contribute to successful project design and implementation. The Client will engage with stakeholders throughout the project life cycle, starting this engagement at the earliest possible stage of the project development process and at a meaningful time for stakeholder input into project design. The nature, scope, and frequency of stakeholder engagement will be proportionate to both the nature and scale of the project and the potential risks and impacts. Stakeholder engagement is a comprehensive process conducted throughout the project life cycle. When properly designed and implemented, it supports the development of strong, constructive, and responsive relationships crucial for the successful management of the environmental and social risks of a project. Stakeholder engagement, initiated at an early stage of the project development process, is the most effective and integral part of the process of assessing, managing, and monitoring the environmental and social risks and impacts of the project. In consultation with the Bank, the Borrower will develop and implement a Stakeholder Engagement Plan (SEP) proportional to both the nature and scale of the project and the potential risks and impacts.



## Annex III: Suggestion & Grievance Form (Internet)

The internet form visual, which can be accessed at https://kadevoneri.csb.gov.tr/oneri.jsp, is below.

	KAMU BİNALARINDA DEPREM DAYANIMI ve ENERJİ VERİMLİLİĞİ PROJESİ (KADEV)
	ŞİKAYET / ÖNERİ FORMU
T C Kimlik Numaranız	
Adınız	
Soyadınız	
JI *	Seçiniz
Bina Adı *	
Şikayetiniz *	
Varsa Engel Durumunuz	Seçiniz
Geri Dönüş Tercihiniz	Seçiniz
E-posta	
Telefon	









## Annex IV: Suggestion & Grievance Form (Printed)

The Grievance/Suggestion Form in the Grievance Boxes is given below.

REPUBLIC OF TURKEY MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE	SEISMIC RESILIENCE AND ENERGY EFFICIENCY IN PUBLIC BUILDINGS PROJECT (SREEPB PROJECT)				
	GRIEVANCE / SUGGESTION FORM				
	ISTANBUL TECHNICAL UNIVERSITY				
ID Number					
Name					
Surname					
Province	İstanbul				
Your grievance					
Your disability, if any:	Blind	☐ Deaf	Physically disabled	Other	None
For return:	E-mail	Phone	Don't want		
E-mail					
Phone					











## Annex V Grievance Closeout Form

The Grievance Closeout Form is presented to your attention below.

Grievance Closing Number		
Description of immediate action required:		
Long-term action description (if necessary):		
Is compensation required?	[]YES ]	s compensation required?
<b>Corrective Action and Decision</b>	Control	
Stage of corrective action		Term and Responsible Institution
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
COMPENSATION AND FINAL R  This section will be filled out and s		receiving the compensation
fees and resolving the grievance.		g
Notes:		
History:		
Complainant:		











# Annex VI Stakeholder Participation Meeting Content & Records (Feasibility Studies)

Project Code

WB/CS-DESSUP-01

Building Name

İSTANBUL TECHNICAL UNIVERSITY AYAZAĞA

CAMPUS

Date 7.03.2023

Start | End Time

14:00 | 15:00

#### ANNEX VI/Table 1 Meeting Agenda

START TIME	END TIME	ACTIVITY
14:00	14:10	Meeting kick-off speech
14:10	14:15	Within the framework of the Law on the Protection of Personal Data, general information was provided regarding the meeting recording and the processing of personal data. There are no participants who oppose the meeting recording.
		<ul> <li>As of 14:15, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.</li> </ul>
14:15	14:20	Information was given about the SREEPB project and its objectives.
		Image 1 PRESENTATION FILE SHARED SECTIONS_01







		EAMU BINALARING REPORT  RANGE  Finonsmon Diary Banker steel  Molly e Bakerile granntolighe  Molly e Bakerile granntolighe  Molly e Bakerile granntolighe  Degulik Bakerile torin  Degulik Bakerile torin  November 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S S S S S S S S S S S S S S S S S S S
		PROJE HEDEFLER  By proje; karmu binalannda, afet direncini maksimum seviyeye çıkarma ve enerji tasarrufunu yiylişilirinevi.  • Yapsal olarak güçlendirinesi, • Enerji porfiamaralarının arintinas, • Variya yarilarının arintinas, • Variya yarilarının sirininas, • Variya yarilarının sirininas, • Enerji yarilen sirininin tehnik aliyayıla ile biliktle (Bina enerji takip ve kontrol sistemi, bina ortanayın alitemi töl, kularının ve erlindiğini ve gürması, • Proje kapsarında, poyduşlar seviyesinde fastradak sağlarması, • hedefleriniştir.	
14:20	14:24	<ul> <li>The general stages of the SREEPB project have been explained. Information was give to be prepared together with the project and tender documents.</li> <li>Environmental and Social Management Plan; It has been explained that it will determined the project and include the risks and the actions to be taken to eliminate the Occupational Health &amp; Safety Plan It has been stated that the occupational health a manufacturing stages will be determined and the measures to be taken for their elimines.</li> <li>Stakeholder Engagement Plan was explained as the documents that will describe the or indirectly affected by the project and how much information these stakeholders will project processes, and how feedbacks (suggestions, grievances, etc.) will be collected.</li> <li>The importance of stakeholder engagement was mentioned. It was stated that the deta announced at the end of the presentation.</li> </ul>	ermine the environmental and social erisks.  Indicate the safety risks related to the nation will be defined.  In estakeholders who will be directly libe informed about the project and examined and answered.







		Image 2 PRESENTATION FILE SHARED SECTIONS_02
		CENEL ASAMALAR  Too-callido binolarem mexcuat durumlan, yierida yapilon telmik incelemeler neticesinde belirlenecektir. (httpscall farböller, erregi vermildi terkölleri)  Bira vapual olarak tantal edilecek, atmafathrar, yygun bigimde numunelar (sanda), sand, polit mumnarias kilyalmacokin, mumuna test sanutalan ververida yapilan galamilar raporlanocoktir.  Bira arenip porfarmanari, direk ve diapy attilopyen satern, yapi ve incladar galaminar raporlanocoktir.  Bira arenip porfarmanari, direk ve diapy attilopyen satern, yapi ve incladar galaminar raporlanocoktir.  Bira arenip porfarmanari, direk ve diapy attilopyen satern, yapi ve incladar galaminari, geneti yapilan heapilamocok (garine sereliti, geneti yapiya etiblir polaria cikylavidacokir;  Yapirale sereli üzetim potaralyıli heapilamocok (garine sereliti, geneti yapiya etiblir polaria cikylavidacokir;  Yapiral galaniarina yapiyalmanın ve vereni vermiliği önelerinin yaltırın molyafan bairkencok, orenji vermiliği orlanları finanda opdan değetlerinin etileyen değişlerile bilirkencok, orenji vermiliği orlanları finanda opdan değetlerinin etileyen değişlerile dikarte cilinarak  Busaltada branın.  **Nevar durum teşpiti sonosi önerillerin belürlermesit.  Busaltada branın.  **Nevar durum teşpiti sonosi önerillerin belürlermesit.  Busaltada branın.  **Nevar durum teşpiti sonosi önerillerin belürlermesit.  **Nevar durum teşpiti sonosi önerillerines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarınının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarınının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarının şirilerinines çin yapilacılarını
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		GENEL AŞAMALAR  Belidenen, murabik kalıran dirilemlere ilişkin projo & ilhale daklimanlarının hazırlaracaktırl  GENEL AŞAMALAR  Foro & ikhale daklimanlarının brazırlaracaktırl  Severesi Soxyol del Yanetim Planlanı (Projekin genesel ve soyal etilileri belirinecek, riskler ve miklerin barrandı iran hayata geşirilekek elyimler tamırlaracaktır)  1 şaqılışı Kalının Planların (Projekin in genesel ve soyal etilileri belirinecek, riskler ve miklerin barrandı iran hayata geşirilekek elyimler tamırlaracaktır)  2 şaqılışı Kalının Planların (Projekin in genesel yerin kalının balınlarının kalının ve ve ve ve tertamlı işin alamının gereken dirilemleri fallarındırının (orun; İşayerli yeri ve bolirinecek in kalının uzu paydajamı proje ve proje süreçleri hakkında ne kadarı rasılı bişlerindirekekleri gene bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri bildirinlerin (orun; İşayerli yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri yeri bildirinlerin (orun; İşayerli yeri yeri yeri yeri yeri yeri yeri yer
		Andrew HIII
		Cerro, Şahrelik ve İldim Değişkiği Balacılığı tarafından gerçekleştirlen ihale naticesinde belleferen yüklenci firma (lar) tarafından hayata geçtirlen projelerin müşavletlik süredi.  • Bir öncek ayarında bellefen ve yüklerisi firmadarı tehibi edilen plarların taramımı (correal saryal etkiri, podo) eşintim, (So) deşinti şarvide, Viyleylerisi ükreli asidece indolara ilişin idi te gereklerinlerin deği oya zamanda bu plarların uygularmasına ilişin süreçleri de tepsarradındır.
14 : 24	14:31	<ul> <li>It was explained that the tests and studies to be carried out for the soil survey to be carried out in order to determine the ground condition and these studies will be carried out according to the characteristics of each building.</li> <li>It was stated what stakeholders and employees should do for occupational health and safety.</li> <li>It has been explained that the professional competence of the employees will be questioned.</li> <li>Possible environmental effects related to soil survey, precautions to be taken and considered in this regard were stated.</li> </ul>







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The possible social effects of the ground survey, the precautions to be taken and the things to be considered about it were explained. Image 3 PRESENTATION FILE SHARED SECTIONS\_03 ATLASCOT !!!!! ATLASCON' BILL İŞ SAĞLIĞI GÜVENLIĞI YAPISAL FIZIBILITE Zomin otüdünə ilişkin risk analizi garçokleştirilmiş, <u>iş sağlığı və güvənliği planlan</u> hazırlanmış ve çolişanlara aktanlmıştır. Paydaşlanmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular sunlardı: ZEMIN ETÜDÜ: Acutima subuu (fine bir yapi işin en az l'adet), jeofalk setim (fine bir yapı işin en az 2).
50m derinlikte sondaj (2-15 ad. aras) fiz zemin durumu belirlenecek ve reportanocatim. Her bir yapı işin bu kapsamda gergelleştirlecek test, sondaj sayılan belirlemiştir ve bina tebrik birilindi bir polyalmıştır. Kizakli sondaj makinesi, kanyon manfeti ile sondaj naktalarina lleti lecektir. Saz konusu kanyonlarin kullarim, manoration asinasi nda kimasini zarar görmemesi igin zaruri haller disinda 20m den fazda yoktaglimamos gerekmetdedit Komyon ve i makinelarini zazimi ha zinni 20 km² dir. Sondaj kulesinin kaldırılması esnasında, kule etki alanı içinde bina elemanlarının, ağaç dollarını vb. almadığından emin olunmalıdır. amaagnatureim vapilon alana 20m\* den faata yakkapilmamas gerekmektedir. Burun tessi igin çalışma sahası amniyot foridi ile ayrilocaktır. Sondal şilemi exnasında çevredeki telinik kadrolanın tozdan etkilenmemesi igin yanım yüz maskesi kullanım öncilik ATLASCOT IIII ATLASCON' BILL CEVRESEL ETKILER SOSYAL ETKILER Zemin etüdüne ilişkin olasi çevresel etkiler ve alınması gereken önlemler bütün çalışanlara aktarılmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şurlardır: Zemin etüdüne ilişkin öngörülen sosyal etkiler ve alınması gereken önlemler bütün çalışanlara bildirilmiştir. Paydaşlarımıza aktamak istediğimiz hususlar şunlardır; Sorriarj golferndom nev Land depart med binnus et klaimest alst kon au degildet.
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		Image 4 PRESENTATION FILE SHARED SECTIONS_04		
			€ PRANSON' IIIII	
		Bing zemir     Donoth boy     Tayticn year laborarbura	FIZIBILITE  21 YAPISI, TARRIBATI / TARRIBATSIZ MUAYENE  nindo oraştıma çukurları açıkarak t <u>ernel gödemi</u> yapılacaktır.  yuflan ve konumlan incelerencek, projekir ile loyalaracaktır.  pe lemanlarından, uygan boyutlarda rumuyeler dinacak ve olaraktır.  pe lemanlarından uygan boyutlarda rumuyeler dinacak ve olaraktır.  pelanarılarından ve lemanlarında sürülerinde ve ilemanlarında yapılanın gödemler ve labaratuvar test sonuçları raporfonacaktır.	
		YAPISAL FIZIBILITE  BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE  Bina zemin/fernel kontrolü için; ternel kalnığırını be milator altına inlecek demilikte yaldaşık (ö.Gm² yazay alanı) araşıman çuluru aşılır. Aşılanı çukar godan olarak kortnel yaldaşık (ö.Gm² yazay alanı) proşama çuluru aşılır. Aşılanı çukar godan olarak kortnel geleleni terselini, Yaşılanı çukur çuğun bişimde kişinderin değileni mükyerile realmier çelelir. Araşılmını sorrasında çukur üygün bişimde kişinderin.	YAPISAL FIZIBILITE  BINA TASYICI YAPIS TANRIBATLI / TANRIBATSIZ MUAYENE Tioping yapi goldemleni ve numune teppil(  - Dann teget dechani is bise njayor seberandarana ipida yar alan donastara (damet) konuniar, dulinlati e se calislat bal decrenya qeligi.  - Beron wa demir unumuna di okosa bisi bisilinini yapardara.	
			Numure offictor dobbusius re numure afraccis yüzyylerin yanna iliylarik;	
14:31	14 : 35	<ul> <li>A statement was made about the destructive</li> <li>Information was given about the reinforcer</li> <li>Explained how to take samples.</li> </ul>	we and nondestructive testing to be done after the soil survement and stirrups.	ey.









		TAPISAL FIZIBILITE  BINA TAŞVICI YAPIS TAKRIBATLI / TAHRIBATSIZ MUAYENE  Dornito verifyer redr?  • Dorente Batro speriordeli çelli çubuldurdı. (Betro baseca karşı çok iri çokrar börgerindeki gerilmeler karşıkamık zeren, bu bölgeye çelli çubuldur preligirilir.)  • Etivice Cikol, kiri gelli tropas satem elementarınınının, bayına doranlıkamı saran, inpart çelliğirin bükülmesiyle elde adilin bir sarqı donatedur.
14:35	14:38	<ul> <li>It was stated that the tensile strength test will be applied to the samples taken.</li> <li>It was explained that the sample to be taken for the core test will be taken from the structural support. It has been explained that the durability of these samples will be measured by compressive strength tests.</li> </ul>







		Image 6 PRESENTATION FILE SHARED SECTIONS_06
		YAPISAL FIZIBILITE BINA TASYICI YAPISI TAHRIBATIJ / TAHRIBATISZ MUAYENE Dorah numuneleri: olredite loborativarilarda gelore doyamını testlerine tobi tutulur, koprra bavevileri baldıları ve reportarı.  **Notor: Sütun olanık da bilinen, layya sistemde düşey yapı elemanları verilen sindir. Yapışı sistemde düşey yapı elemanları verilen sindir. Yapışı sistemde düşey yapı elemanları verilen sindir. Yapışı sistemde düşey yapı elemanları verilen sindir. Yapışı sistemde düşey yapı elemanları verilen sindir. Yapışı sistemde düşey yapı elemanları verilen sindir. Yapışı elemanları verilen sindir. Yapışı sistemde düşey yapı elemanları verilen sindir. Yapışı elemanları verilen sindir. Yapışı elemanları verilen üğeyi yapışı elemanları verilen sindir. Yapışı e
		YAPISAL FIZIBILITE  BINA TASIYICI YAPISI TAHRIBATSI / TAHRIBATSIZ MUAYENE  Numunelerin çilkorinnos;  Topyocivater-licerindi yeri koloriadın Top oganda Dorr deriritirde, silarifik numuneleri çilerinas:  1 kord midinini, numune almazi erilerini, kalizer uygun devite de lamazi ve şilen yaçıları notisyayuygun midroda su olarardı adıları şilerine kilerini yazılı elevite de lamazi ve şilerin yazılını tarinde işilerin boşlar.  1 00 55mm deriliği uşiriydiyatıcı dazıy proje üzerirden kırarı uzu geri çeklir ve chaz kalonik numune işilerine kilerin ve silerini kilerin ve silerini kilerini yazılı çilerini çilerini kilerini yazılı çilerini çilerini çilerini kilerini yazılı çilerini
14:38	14:40	It was stated that the samples were taken from places that were not exposed to force, the parts damaged by column stripping and the places where concrete samples were taken will be filled with high-strength filling mortars and repaired.  Image 7 PRESENTATION FILE SHARED SECTIONS_07  YAPISAL FIZIBILITE  TARRIBATU TES SONRAS ONARIM Pole laquarmuda geropidelgifien tabilitatis manyonalerin, ternin edition numeric site in motion successful colored color.  1 Color symmetric studies discharation, conflicted colored solutions of the colored color.  2 Value make over a little studies of the colored color.  3 Value make over a little studies of the colored color.  4 Value make over a little studies of the colored color.  5 Value make over a little studies of the colored color.  5 Value make over a little studies of the colored colored color.  6 Value make over a little studies of the colored color.  6 Value make over a little studies of the colored color







<b>KADEV</b>
Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği Projesi

14:40	14:45	General explanations regarding occupational health and safety plans were made within this framework;	
		<ul> <li>Matters taken into account within the framework of OHS plans are explained item by item.</li> <li>It was underlined that only authorized persons can access the areas where the renovation works will be carried out, therefore, the access of the building users will be restricted in some periods. It was reminded that work plans should be evaluated within this framework.</li> <li>General OHS rules and precautions to be taken especially for environmental safety were mentioned.</li> <li>It was underlined that it should not be touched while working with the devices and that the technical personnel should show the plugs fed from the residual current circuit lines for the connection of electrical devices.</li> <li>The importance of professional competence was mentioned. For example; It has been stated that Civil Engineers and Construction Technicians will take part in construction equipment tests under their supervision.</li> <li>The environmental impacts of all works and the precautions to be taken are explained to all employees and the issues that stakeholders should pay attention to are explained.</li> <li>It was stated that the wastes will be cleaned by technical experts and employees and will be separated into the regions indicated by the Administration.</li> <li>Projected social impacts related to indoor observation, test and inspection activities are stated in the OHS plans.</li> <li>It has been underlined again that the samples to be taken will not adversely affect the building's structural aspects.</li> </ul>	
		For the programming columnary figure as and an greakesple fine, as control of the column of the colu	
14:45	14:50	<ul> <li>It has been stated that the OHS rules that the contractor companies must comply with and the general environmental and social effects/measures are explained in the OHS plan prepared specifically for this project and communicated to the relevant employees.</li> <li>In addition to the structural feasibility, it was stated that studies will be carried out on the energy efficiency of the buildings and various controls and examinations will be carried out in order to understand the current situation of the building before these.</li> </ul>	







		Image 9 PRESENTATION FILE SHARED SECTIONS_09
		*** National formations regarding grades is subply or glorelly learning in grand operations. It is grand operated by the production of the
		ENERLY VERIMILIÄ  ROBURISHOROW-ENTITUTY VAY W. SCHP-LIBNITITION  • Formation of particular programs on lexigned in generation, god in properties of particular programs on lexigned in control particular programs on lexigned in control particular programs of particular programs on lexigned in control particular programs of particular programs o
		Spacific Givenus  Space of the state of the
14:50	14:54	Clarifications were made regarding stakeholder engagement, receiving and evaluating suggestions and grievances, and informing the relevant parties about this process (decisions taken regarding suggestions and grievances, additional measures implemented, etc.)  It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes.  It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181.  Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods.







		■ It was announced that the grievances about gender-based violence (harassment, abuse, etc.) and gender-based discrimination, which were made within the scope of the project, will also be evaluated within the scope of the grievance resolution mechanism.  Image 10 PRESENTATION FILE SHARED SECTIONS_10	
		ONERI ŞIKAYET SISTEM  Oner ve alkayateferitiri, çeriğ ve olum olun, mal locror elmen elmen olum. De ve alkayateferitiri, çeriğ ve olum olun, mal locror elmen elmen olum. De ve yelik yelik olun birmal alkıyıcı. Orer elmen elmen olum. De ve yelik yelik olun birmal alkıyıcı. Orer elmen elmen olum. De ve yelik yelik olun birmal alkıyıcı. Orer elmen elmen olum. De ve yelik yelik olun birmal alkıyıcı. Orer elmen elmen olum. De ve yelik yelik olun birmal alkıyıcı. Orer elmen elmen olum. De ve yelik yelik olun birmal alkıyıcı. Orer elmen elmen yelik olun birmal alkıyıcı. De ve yelik yelik olun elmen yelik olun elmi iyası birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. Orer elmen elmen yelik olun elmi iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal iyası birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De ve yelik olun birmal alkıyıcı. De v	
14 : 54	15:00	Participants' questions were received and answered.	
		CLOSING speech was made and the meeting was ended.  Image 11 PRESENTATION FILE SHARED SECTIONS 11	
		IIIIage II FRESENTATION FILE SHARED SECTIONS II	
		ilg ve arlayşını için tesekkür edenizi	
		мерения винис	







## 2023



## **Questions and Answers**

Despite being reminded at the end of the meeting and waiting for sufficient time, no questions were raised.

#### **ANNEX VI/Table 2 QUESTION & ANSWER LIST**

	NAME SURNAME	QUESTION	ANSWER
01	-	-	-









#### ANNEX VI/Table 3 MEETING NOTES & GENERAL EVALUATION

	TI TOUCH THE TOTAL CALLETTON				
-	The brochures and appendix presentation files prepared within the framework of the SREEPB Project will be sent to all participants via their mobile phones or email addresses.				
_	Suggestion & grievance form link will be sent to all participants via their mobile phones or e-mail addresses.				









### Participant List and Contact Information

Annex VI/Table 4 Participant List and Contact Information

Within the scope of the Law on the Protection of Personal Data Personal (Law No. 6698), participants' clear identity information cannot be shared. However, records of the meeting are kept by the PIU.

#### CONSULTANCY COMPANY PARTICIPANTS

- 1) Sinan Evkaya (Electrical and Electronical Engineer)
- 2) Hüseyin Tavaslıoğlu (Energy Systems Engineer)
- 3) Birsen Bakır (Electrical and Electronical Engineer)

#### PROJECT IMPLEMENTATION UNIT PARTICIPANTS

- 1) Ganime Güzel (Environmental Expert)
- 2) Semahat Dicle Maybek (Social Expert)
- 3) Tülün Yıldırım (OHS Specialist)

Explanation: The stakeholder engagement meeting was held on the digital platform ( <a href="https://meet.google.com/qhy-mqzb-ers">https://meet.google.com/qhy-mqzb-ers</a>) Video recording was made with the information and approval of the participants.







## 2023



### Stakeholder Engagement Meeting Presentation









#### KAMU BİNALARINDA DEPREM Dayanımı 8 enerji verimliliği PROJESÍ

Finansmanı Dünya Bankası tarafından sağlanmakta, Hazine & Maliye Bakanlığı garantörlüğünde, Çevre Şehircilik ve İklim Değişikliği Bakanlığı tarafından yürütülmektedir.





https://kamuguclendirme.csb.gov.tr

#### PROJE HEDEFLERI

Bu proje; kamu binalarında, afet direncini maksimum seviyeye çıkamıa ve enerji tasarrufunu iyileştirmeye odaklanmıştır. Bu çerçevede binaların;

- Yapısal olarak güçlendirilmesi,
   Enerji performanslarının artırılması,
   Yerinde yenilenebilir & sürdürülebilir enerji üretimi,
- Enerji yönetim sisteminin teknik alt yapısı ile birlikte (Bina enerji takip ve kontrol sistemi, bina otomasyon sistemi vb.) kurulması ve etkinliğinin sağlanması.

hedeflenmiştir.





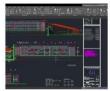








Belirlenen, mutabik kalınan önlemlere ilişkin **proje & ihale dokümanlarının** hazırlanacaktır!













#### GENEL AŞAMALAR

#### Proje & ihale dokümanları ile birlikte;

- Çevresel Sasyal Yönetim Planları (Projenin çevresel ve sasyal etkileri belirlenecek, riskler ve risklerin bertarafı için hayata geçirilecek eylemler tanımlanacaktır)
- Iş Sağlığı & Güvenliği Planlar (İmalat aşamalarına ilişler) iş sağlığı ve güvenliği riskleri belirlenecek ve bertarafı için alınması gereken önlemler tanımlanacaktır.)
- Paydaş Katlım Planları (Projeeden direk ve doloylı etklenecek paydaşlar ve söz konusu paydaşların proje ve proje süreferi hakkında ne kadar nasıl bligilendirilecekleri geri bildirimlerin (öneri, şikayet vb.) nasıl toplanacoği, inceleneceği ve cevaplanacoği tarif edilecektir.)

Çevre, Şehircilik ve İklim Değişikliği Bakanlığı tarafından gerçekleştirilen ihale neticesinde belirlenen yüklenici firma (lar) tarafından **hayata geçirilen projelerin müşavirlik süreci.** 

Bir önceki aşamada belirtiler ve yüklerici firmalara tebliğ edilen planların tamamını (çovresel, sosyal etikler, poydoş ketilmi, 1909 disiplini şekilde uygularınası zarurdir. Müşcivlik süraci sadece innaclatarı liğin kolitir gerekiminlerini deği çovra zarnarda bu yalındanı vygularınasını iğikin süreçleri

#### YAPISAL FIZIBILITE

Araştırma çukuru (her bir yapı için en az 1 adet), jeofizik serim (her bir yapı için en az 2), 30m derinlikte sondaj (2-15 ad. arası) ile zemin durumu belirlenecek ve raporlanacaktır. Hi bir yapı için bu kapsamda gerçekleştirilecek test, sondaj sayılan belirlenmiştir ve bina teknik birimleri ile paylaşılmıştır.











ATLASCON' HILL

Paydaş Katılımı Toplantı Raporu

. Zemin etüdüne ilişkin olası çevresel etkiler ve alınması gereken önlemler bütün çalışanlara aktarılmıştır. Paydaşlarınızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır.

Scridaj sjemi encarada garaltu anik olarak 7568 envjelerina ulazabilmektedir. Bu nodaria çerredeki birolyelini korsoni rospordarini olumaz yarda eriklermesi muhtemedir.
Sordaj maliniesi, Bumyaru mazat ve yağı erina elenanda tepoga açarına, saratı rikis sor korusudur.
Böyle ir durunda emici podelir killarılarık azan mazat /ngi terrizlenecik isotorime olmuş teprak karaksı sayalarılarık kortanime pode ve yardını teprici. İraklesi di artalarıları dekilerdendiri.
Sordaj syanuni korteklaz yayılınımı engellermesi için sordaj naktarılarıla uygun koralları oluşturluducik en peçele çerine korusularına (zazem ili) "yaricerlinicecikit iz ven zilene paratiya için prosentini suya oçanudan etillermesi mühtemeliri. (Çolgma sontaunda gevre femciki, düzerlemesi yapılacok, kanal ve geçelo krazika folduliriscoktir.)

Sondal çalgımalan esnasında ortaya çıkan atklar ve çalışanların atklar (içecek şişeleri, plastik yemek kaplar ve.) isniflandırlarak faydalarıcı idarenin gastereceği alanlarda gegici olarak depolanacaktır. Söz konusu atkların ayrıştırlımasıv depolanması projede görev alan çalışanların sorumluluğundadır.



PAUL D

#### İS SAĞLIĞI GÜVENLIĞI

Zemin etüdüne ilişkin risk analizi gerçekleştirilmiş, <u>iş sağlığı ve güverliği planları</u> hazırlanmış ve çalişanlara aktanlmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlandır.

- Kzakli sondaj makinesi, komyon marifeti ile sondaj noktalanna iletilecektir. Sëz konusu kamyonlann kullarimi, manevatina esrosando kimesenin zarar görmemesi igin zarun haller diginala 20mi den fazla yaklagilmanasi gerekimektedir! Komyon ve igi makinelerinin zazami kiz sunn 20 kmi diri.
- Sandaj kulesinin kaldırılması esnasında, kule etki aları i ginde bina elemanlarının, ağaç da larını vb. olmadığından emin olunmalıdır.
- Sondaj işlemi yapılan alana 20m' den fazla yaklaşılmamas gerekmektedir. Bunun tesisi için çalışma sahas emriyet şəridi ile oyrlocaltır.
- Sandaj işlemi esnasında çevredeki teknik kadroların tozdan etkilenmemesi için yanım yüz maskesi kullarımı önerlir.
- kularının onenir. Sanda jişleri esnasında gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bireylerin konsantrosyonlanını olumsuz yönde etkilenmesi muhtemeldir.
- Çalışma sonrasında araştırma çukurları ve sondaj dellikleri kapatılacaktır. Bu suretle takılma, düşme riskleri bertaraf edilmiş olacaktır.







#### YAPISAL FIZIBILITE

CEVRESEL ETKILER

#### BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Bina zemin/femiel kontrolü için; temel kalınlığının bir miktar altına inilocek derinlikte yaklışık (0.5m² yüzey alan) araştıma çukuru açıkı. Aplan çukur gössel olarak kontrol olallarak temel hiş yapışı, bilgeninin kontrol adlırı seprojelor ile hyasilanın. Açılan çukur ve gözlemleri gösteri mahiyette resimler çeklir. Araştıma sonrasında çukur uygun bişimdə kapartılar.





ATLASCOT! HILL





AUNSCON' HILL

#### YAPISAL FIZIBILITE

SOSYAL ETKILER

#### BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Taşıyıcı yapı gözlemleri ve numune tespiti;

Demir tassit chazlan ila bira taşıyıcı alamanlarının içinde yer alan donatiların (demir); konumian, dizilmleri ve eralikan bilifonnaya çalışlır.
 Batan ve donin munususi sinlencsi bölümler işaralların.

Zemin etüdüne ilişkin öngörülen sosyal etkiler ve alınması gereken önlemler bütün çalışanlara bildirilmiştir. Paydaşlarımıza aktarmak istediğimiz hususlar şunlardır;

 Sandaj galişmalan esnasında bina kullanı cılarını ve diğer paydaşların gürültü vb. ettilerden olumsuz etkilenmemesi için gerekli planlama konusunda saha persanellerine yardıma olmanızı rica ediyoruz. ettementer grip gees promiser curium consumer promiser et grip gees promiser consumer consumer promiser et grip de promiser consumer consumer consumer promiser et grip de promiser et grip de promiser et grip de promiser et grip de promiser et grip de promiser et grip de promiser et en unagene guidagnición en consumer qui de promiser et en unagene guidagnición en consumer de promiser et en un que promiser et en un que promiser et en un que promiser et en un que promiser et en un que promiser et en un que promiser et en un que promiser et en un que promiser en

Projede görev alan çalışanların, hiç bir koşul altında paydaşlar ile tartışmaması hususunda gerekli uyanlar yaptırıştır. Böyle bir durumla karşılaşılması halinde öneri ve şikayet mekanizmaları vastrasıyla bizilere ulaşmanızı bekilyazu. (Önet 8 şikayet süreve)

Bütur çölyarlar gyirmelik, Grisyer temelli şiddet konusunda bifgilendiriniş ve proje kapsamında bu tip dovranşlara hiçbir sarı ve koşul afında türi ve ininiyesegi bi kininiştir. Bu yaklaşıma aylen hareket edenlerin, projetle göre afındanan ya da göverlerini devarihliğina müsacüle etilmeyecektir.

Sandaj çalışmalarınır, bina dayanımını olumsuz etkilemesi saz konusu değildir.

- Numune etiketleri doldurulur ve numune alınacak yüzevlerin yanına ilistirilir.





#### YAPISAL FIZIBILITE

YAPISAL FIZIBILITE

#### BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE Donati ve etrive nedir?

BINA TAŞIYICI YAPISI, TAHRIBATLI / TAHRIBATSIZ MUAYENE

Bing zemininde grastırma cukurları acılarak temel gözlemi yapılacaktır.

· Donati boyutlari ve konumlari incelenecek, projeler ile kıyaslarıacaktır. Taştıtcı yapı elemanlarından, uygun boyutlarda numuneler alınacak ve akredite laboratuvarlarda dayanım testlerine tabi tutulacaktır.

Yerinde yapılan gözlemler ve laboratuvar test sonuçları raporlanacaktır.

- Donatı: Beton içerisindeki çelik çubuklardır. (Beton basınca kaşı çok iyi çalşan bir matzemo olmasına rağmen, çolmo dayanımı çok diçüktür. Çolmo bölgosindeki gerilmeleri kaşılamak üzere, bu bölgeye çelik çubuklar yerleşfirilir.)
- Etriye: Kolon, kiris gibi taşıyıcı sistem elemanlarının; bayuna donatılarını saran, inşaat çeliğinin bükülmesiyle elde edilen bir sargı donatsıdır.





#### YAPISAL FIZIBILITE

#### BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Numunelerin çıkarılması;

- <u>Donatı kontrollü</u> için belirlenen yüzeyler uzerindeki; boya, alçı, sıva ve beton karmanlar, kırıcı marifeti ile <u>kaldırılır, syyrlır.</u> Bu suratie kontrol edilocek demirler ortoya çıkanlır.
- Çıkarıları donatı (etriye ve boyuna donatı) üzerindeki beton kalıntılar ve pas, uygun boyutta metal firçalar
- kullanılarak temizlenir.
- Donati capian tespit edilir, davanım testi icin numune filiz başlarından vb. sciral tas marifeti ile demir cubuklar keşilir.











#### YAPISAL FIZIBILITE

#### BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Donatı numuneleri; akredite laboratuvarlarda çekme dayanım testlerine tabi tutulur, koprına kuvvetleri belirlenir ve raporlanır.













#### YAPISAL FIZIBILITE

Kolon, kiris nedir?

BINA TASIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Kolon: Sütun olarak da bilinen, taşıyıcı sistemde düşey yapı elemanlarına verilen isimdir. Yapıda diş ve iç etirlilerden oluşan kuvvetleri (moment, kesme kuvveti vb.) temellere, dolayısı ile zemine aktarırlar.

Kirtş: Yapılarda döşerne ve kullanım alanı yüklerini düşey taşıyıcılara (kolon) aktaran yapı elemanıdır.





#### BINA TASIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Numunelerin çıkarılması;

Taşıyıcı beton kontrolü için <u>kolonlardan</u> 10cm çapında 10cm derinliğinde, silindirik numunelerin çıkanlması:

- Karot makinesi; numune alinacak noktaya hedefenerek uygun qapta dübel / vida kullanılarak sabitlerir.
   Karot makinesi çaliştirlir. Makine uygun devirde dönerek ve işlem yapılan noktaya uygun mikrarda su aktararak delme işlemine pakine.
- 100-150mm derinliğe ulaşıldığında cihaz yatağı üzerinden karot ucu geri çekilir ve cihaz kapalı konuma
- germini.

  Karat makinesi yerinden çıkanlır. Delgi başluğuna uygun böyüklükte murç ve çekiç kullanılarak numune kösesine vurularak, numunenin başlantı vüzevinden kopması saşlanır. Serbest kalan numune verinden







#### YAPISAL FIZIBILITE

#### BINA TASIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Beton numuneleri; akredite laboratuvarlarda basma dayanım testlerine tabi tutulur, dayanıklılık seviyesi belirlenir ve raporlarır.







SOSYAL ETKILER

#### TAHRIBATLI TEST SONRASI ONARIM

Proje kapsamında gerçekleştirilen tahribatlı muayenelerin, temin edilen numunelerin; binaya yapısal hasar vermesi söz konusu değildir;

- Demir numuneler kuvvet altında kalmavan filiz uclarından vb. noktalardan
- Kolon sıyırması sonucu tahrip olan kısımlar ve beton numunesi alınan bölümler yüksek mukavemetli dalgu harçları kullanılarak daldurulacak, onarlacaktır.





#### İŞ SAĞLIĞI GÜVENLIĞI

Bina içi yapısal gözlem, test ve muayene çalışmalarına ilişkin risk analizi gerçekleştirilmiş, iş sağığı ve gürenliği planları hazırlarınış ve çalışanlara aktarılmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır;



- Kazz, Isrim, karat ve onanım hara: hazirlarına esnasında görevli olmayan paydağlar, çalışma noktalarına Sım den fazla yaldışmarındıdır. Bu surelik, çikan taz, yilasık gürülülere uzun süre maruziyet, firfayan gapat// betin pargalarından etti lerme ihimali ortudan kallacıdır.
- Calışmalara eşik edecek bino teknik kodrolanının/çalışmılanını; kazı, karot ve kının işlemlerini yakından takip etmenesi, bu çalışmalar esnasında toz maskesi, konyucu gözlük ve baret kultanmalan gerekmetledi.
- Çalışmalara eşlik eden teknik kadrolar; uzatma ve diğer elektrikli ekipmanlara temas etmemelidir.
- Çalışmalara eşlik eden teknik kadrolar, elektrikli cihazların bağlana bilmesi için, kaçak alırın korumalı hatlardan başlanan uygun prizler soçmolidir.
- Çalışma sonrasında araştırma çukurları, sıyırma işlemi yapıla kelenlar ve beton numunesi alınan bölgeler tamir edile cektir

Yüklenici firmalanı uymalan gereken iş sağlığı ve güvenliği kuralları ile genel çevress sosyal etidler/önlemler; bu proje özelinde hazırlanan İSG planı içinde açıklanmıştır v

ilgili hütün calısanlara tebliğ edilmişti





#### CEVRESEL ETKILER

Bina içi gözlem, test ve muayene çalışmalarına ilişkin olası çevresel etkiler ve alınması gereker önlemler, bütün çalışanlara aktarılmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat otmolori gereken konular sunlardır:

- Kınım, karat, spiral işlemi esnasında gürültü, anlık olarak 105dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bi reylerin karsanıtrasyonlarının olumsuz yönde etkilerimesi muhtermekdir.
- Kimm ve karar tensaunda artaya gikan ahiliar falap, sava ce behon pargalan/tralan, demir tralan, capadian pargalan) goreni tehnik urumanlar ve çalışanlar tarafından terindenecek ve faydalarıcı idane tarafından gastenlen bölgelerde ayrıştınlarak depolanacaktır. Bu çalışmalara bağlı atdal inliktarda atlık çıkması beklemmemelderdir.
  - oekennemeterbar. 

    Tamk hargismen kullarının errasında çıkan anilar, üzetici tarafından beyan edilen şekilde (MSOS-Martardi Safety Data Sixen (Tüdeşas Güzenik Bilgi Fazru (GBF) olunda adlandırdırmaktadı, () sanıflandırlıladı ka dyaldıcını oldara tarafından gösselen bölgelere ayıştırılarak depola nacoları, Bu çalışmalara bağlı addı mi Harda atik gitması bellenmemelkedir.
  - Projede gövevlendirilen tehnik uzman ve çalışanların, içecek ve yiyecek tüketimlerine bağlı ortaya çıkacak geri dönüştürülebilir atiklanını tamamı, bina içinde tessi edilen geri dönüşün kutularına atılır.



#### ALIASCON, HILL

Bina igi gözlem, test ve muayene çalışmalanna ilişkin öngörülen sosyal etkiler, İSO planlannda belirininştir. Söz konusu etkler ve alınması gereken önlemler bütün çalışcınlara bildirilmiştir. Bunun yannda paydaşlanmıza aktarındı kisteliğimiz hususlar yarlardır;

- Bina içinde gerçekleştirilen tahribatlı muayenelerin ve alınan numunelerin; bina dayanımını olumsuz etkilemesi söz kanusu değildir.
- Test ve numune temini esnasında; bina kullanıcılarınınye diğer paydaşların gürültü vb. erkilerden olumsuz ertülenmemesi için gerekli planlama konusunda, saha personellerine yardıma olmanızı rica ediyonuz.
- Teknik uzmanlanmzun ve çalışanlanmzun yevresel etki ve gürül tülerden etki lermesi olasıdır. Çalışmalar encasında, tullarıcı ve diğer paydaşların çalışma alanlarına yaklaşmamdan hususunda yapıları yanları dikkate alarak destek vermenizi rıca ediyoruz.
- Test, muayene galışmaları sonrası; çalışma sohalarında gerekli düzenlemeler, görevli personeller tarafından gerçekleştirilecektir. Bu konuyu ilişkin şikayetlerinizi lütfen bize bildirin.
- 5 15 Projede görev aları çolişanların hiş bir koşul ahnda paydaşlar ile tortişmaması hususunda gerekli uyanlar yapılmışırı. Söyle ör kulurmla kanşlaşılması halinde öneri ve şikayet mekanizmalan vasıtasıyla bizlere ulaşmanızı beklyoruz. (Chare il sikyere süzeci)
- Bütun çalişanlar ayırımcılik, cinsiyer temelli şiddet konusunda bilgilendirilmiş ve proje kapsamında bu tip davranışlara hiçbir şart ve koşul altında izin verilmeyeceği bil bil inimiştir. Bu yaldışıma ayları hareket edenlerin projade görve almanın ya ur ağırövelnirin davamlıklışına müşaada edilmeyecedir.





ALIASCON, HILL







#### ENERJI VERIMLILIĞI

#### ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI Bina enerji performansını ciddi şekilde etkileyen yapı ve sistemler aşağıda sıralanmıştır,

- Bina cephesi, cephe bileşenleri (kapı, pencere) ve çatı.
- Sirkülasvan motorları ve pompaları
- Merkezi cebri havalandırma sistemler Merkezi iklimlendirme sistemleri (soğutma ve isitma)
- Sıcak kullanım suyu üretimi.
- Yerinde sürdürülebilir elektrik üretim
- Bina otomasyonu.
   Enerji yönetim ve izleme sistemleri.























#### ENERJI VERIMLILIĞI

#### ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

- Bina diş caphe biləşənləri, pencere ve kapılar ile çərçeveleri, çatı tipi ve bileşərləri termal yalıtım becerei çerçevesinde incelenir. Bunun için Mevcut cophe ve çatı yalıtım katmanları ve sil goçirgenlik katsayılan belirlerir, termal kamerdiar ile si kaçakları tespit edilir.
- Her bir elektrik motoru kontrol edilir. Verim sınıfı, imal yılı, vibrasyon, çekilen akım ve güç, frekars kontrolü gibi parametreleri/özellikleri belirlenir
- Her bir merkezi havalandırma ünitesi, performans testlerine tabi tutulur; hava hızı ve basınç değerleri, çekilen toplam güç, motor devri gibi veriler belirlenir.
- Her bir merkezi soğutma ünitesi, performans testlerine tabi tutulur. Anlık enerji tüketimleri, kapalı çevrim sıcaklık, basınç değerleri ve akışkan debisi bolirlenir.
- Her bir merkezi kazan ünitesi performans testlerine tabi tutulur. Baca gazı analizi ile yarıma verimi belirlenir. Kazan termal keyipları, anlık tüketim verileri, kapalı çevrim akışkan sıcaklık ve debi verileri tespit edilir.





#### ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

- İç ortam aydınlatma seviyeleri ölçülür ve standart şartları ile kıyaslarır. Aydınlatma elemanlarının tipleri, güç kaynakları vb. veriler dıkkate alınarak aydınlatmanın toplam tüketim içindeki payı belirlenmeye çalışılır.
- iç ortam hava kalitesi verileri; örneklem metodu ile anlık olarak ölçülür. Karbondioksit oranı, sıcaklık ve nem değerleri listelenir. Konfor şartlanna ilişkin standartlar ile kıyaslanır.
- · Bina iç ortam sıcaklık değisimleri data logaer' lar ile kayıt altına alınır.
- Bina çatı yapısı incelenir. Güneş enerji üretim potansiyeli (güneş paneli kurulumu) belirlenir.
- Bina çevresindeki park alanları vb. yapılar incelenir. Çelik konstrüksiyon üzeri güneş paneli kurulum imkanları sorgularır.
- İklimlendirme, aydınlatma ve motor pompa elemanlarının işletme metotları incolonir. Otomasyon imkanları balirlenir.



ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

Bina elektrik sistemi, kesintisiz güç kaynakları vb. yapılarla birlikte incelenir. Asgari 24 saat enerji kalife analai gerçekleştirilir. Bu suretle bina elektrik sistemi, harmonik bazulma seviyelerini içerecek mahiyette gözlenir.

Bina topraklama sürekliliği sorgulanır. Kaçak akım koruma sistemleri ve etkinliği değerlendirilir. Şaltı ekipmarıları termal açıdan sorgulanır, bu suretle problemli şalt ekipmanları ve linye hatları belirlenmeye çalışılır.

Bina enerji izleme sistem kurulum imkanlan gözlenir. (Kolon ve linye hatlan dağılımları, pano boyutlan ve iç boşluklar, pano konumlan, izleme sistem elemanlarının kablolama imkanlar vb.)

Bina lokasyonlannın hava kaşulları, çevre ve yer altı patansiyel isi kaynakları sorgulanır. Mevcut tesisat bileşenleri dikkate alınarak isi pompası vb. imkanlar değerlendirilir.



Wilcosk Marinell Mater C Demonals





#### İŞ SAĞLIĞI GÜVENLIĞI

Bina enerji performans tetkiklerine ilişkin risk analizi gerçekleştirilmiş ve önlemler belirlenerek çalışanlara aktanlmıştır. Bunun yanında paydaşlarınızın bu çalışmalara ilişkin dikkot otmolori gereken konular sunlardır:



- Elektrik sistemine ve büyük elektrikli cihazlara (chiller grupları vb.) test probları yerleştirilecek ve uzun süreli gazlemler yapılacadır. Saz konusu panolara yetlesi kişlerin yaklaşması tehlikelidir. Bu nedenle saz konusu panolanı bulunduğu olanlar kilitleremleldir.
- Olgümlerin tamamına bira tekrik pensanel/pensanelieri eşlik etmel; cihazların devreye alırması, devreden çıkarlıması, cıhaz konum a mahlazalarının açılması viz. uygularındısı bizzat yetkili bira teknik pensanelleri gerçekleştirmeldir.
- Bina teknik personelleri; havalandırma üniteleri vb. cihazlara güvenli erişim yalları (çatı üzeri vb.) belirlerneli ve görevli teknik personelleri yönlendirmelidir.
- Bina teknik personelleri; anzalı ve riskli cihazlar konusunda görevli teknik personelleri uyarmalıdır.



#### ATLASCOT! HILL

#### CEVRESEL SOSYAL ETKILER

Berji verimilliği perspektifinde gerçekleştirilen gözlem, test ve muayene çalışmalanna ilişkin olumsuz bir cewesel etki beklenmemektedir. Ancak teknik uzmanların içecek ve yiyeceklerinden kaynaklanan ızır çevresetetin denemmentetir. Antak teknik deminin inçetek ve j ambalaj atıkları geri dönüşüm ilkesi çerçevesinde değerlendirilir. Bunun etkiler asağıda sıralanmıştır;



- ourmuz an exensuz zerzau adguar. Celignalar ernasında, kullanıcı ve diğiri paydoyların çeligma alanlarına yaklaymomalan hususunda yapılan uyanları diklete olanık, destekvermendi isad ediyoruz.
- Test, muovene galismalan sonrasi, ga isma sahalarinda herhangi birikrilik olusmasi beklenmemekle birikre, oluşabilecek olası krilik rovotimedan berhavdı adılazektri.
- Ozellikle elektrik kai tre analtai ve toorakoma ölgitmieri esnosinda, birra enerjis kisa süreleriigin kesilebilir filosok akim säreminndevreye gimesivä, jibu duurundan bira kulainiolariin eliklerimemesii giri (bitgisajari evilettari kayteditine isb. janjalaaki vajari vai dizellerinalatai ujulinaa otoma oz afmeldirii.
- Projede görev alan çalışanlarıç'diş bir kaşul alında paydaşlerile terişmamanlırısısı, nda gerekli uyarlar yapılmıştır.
   Böyle bir durumla karşlaşılması halinde öner ve şikayet mekantzmalarıvasınasıyla bizleve ulaşmanızı bekilyaruz.
- Bütün çalşanlar ayır malık, cinsiyet temeli şiddel kon, sunda öligilend ilmiş ve proje kapsamında bu tip davranşlara hickir şari ve kaşılı allı rdaldır verilmiyezeği bi bilirimiştir. Bu yaktaşıma aylını hareket edenkerin projede görev almasır da görevlerinin devermiştira müsaade edilmiyezekirt.













ATLASCOT! TITLE







ATLASCOT HILL

#### ÖNERI ŞIKAYET SISTEMI



Bu proje hakkında genel bilgi almak, çevresel ve sosyal proje dokümanlarına erişmek ya da öneri ve şikayetlerinizi bildirmek için; https://kamuguclendirme.csb.gov.tr/, web soyfasını ziyaret edebilirisniz.



#### ÖNERI ŞIKAYET SISTEMI

KADEV projesi için şikayet ve öneri sahipleri aşağıda verilen farklı kanallardan taleplerini iletebilirler

Caign Merkezi : Ale 181
Telefon : 0312 586 4858
E-Mail : yigmkadev/8csb.gov.tr
Şikayet Formu : https://kadevonerl.csb.gov.tr/onert.jsp



ÖNERI ŞIKAYET SISTEMI İntemet üzerinden şikayet formuna hemen erişim için lütfen yandaki kodu telefonunuza okutun.

(Bu eykimigh akil telefonuncida QR kadi gigulanau cimakar, Sar konuşu ygulanayolişa, heklangi bi hat tanguci adas cubuğunaylayat formu ayını odranı yazatı (ininic.)





İlgi ve anlayışınız için teşekkür ederiz!











# Annex VII Stakeholder Engagement Meeting Content & Records (Environmental and Social Management Plan)

Project WB/CS-DESSUP-01 Building Name İTÜ AYAZAĞA CAMPUS 2ND

Code WB/CS-DESSUP-01 Building Name STAGE

Date 16.04.2024 Start | End Time 10 : 35 | 11 : 15

START TIME	END TIME	ACTIVITY	
10:35	10:38	Meeting kick-off speech	
10:38	10:40	<ul> <li>Within the framework of the Law on the Protection of Personal Data, general information was provided regarding the meeting recording and the processing of personal data. There are no participants who oppose the meeting recording.</li> <li>As of 10:40, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.</li> </ul>	
10:40	10:43	Information was given about the SREEPB project and its objectives.	
		Image 7 PRESENTATION FILE SHARED SECTIONS_01	







	Kamu Binalarında Deprem Dayanımı ve Enerji Verimiliği (KADEV) sısınık risk kalında ve enerji verimiliği (KADEV) sısınık risk alında ve enerji verimiliği (KADEV)	ı, yurtlar, sosyal alarında sismik
10:43 10:48	Busunm; TU Ayaragia Kampisi 2. Etayfu yer alan UCAK UZAY!  Bikinteri enrittsöö, Geni inşach Takütursi, Manen Fakütursi, Manen Fakütursi, Manen Fakütursi, Manen Fakütursi, Manen Fakütursi, Manen Fakütursi, Manen Fakütursi, Manen Fakütursi, Vapasal göçlendirme ve enerji verimliliği odakti vileştirme çalışmala verecektir.  The renovations to be carried out for the structural retrofitting ide explained in detail. (Structural system reinforcement, fine works, etc.)	entified as a result of the feasibility study have been







2023

### ve Enerji Verimliliği Projesi Image 8 PRESENTATION FILE SHARED SECTIONS 02 ATLASCOT! HILL ATLASCOT TILL Yapım Aşaması Yapısal Güçlendirme - Mescuttayyasıtamığıçlerdirməs aktasıya sizəm imaladır. Enerji Verimliliği Leading to extra mining 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) (10) 10 - 0.00 (20) 10 - 0 Kapali Spor Salonu çatı tipl/tasanını nedeniyle yapısal olarak güçlendirilememektedir. (Güçlendirme malyetlerinin, yapının yeniden yapını malyeti dikkute oladığından filazısal opdan uygun almadığına korrar veriliniştir.). Bu nedenle söz konusu yapı proje kapsamı disanda tutulmuştur. ATLASCOT TILL ATLASCOT! Yapısal Güçlendirme Yapısal Güçlendirme Taşıtıcı Sistem Güçlendirme Taşıtıcı Sistem Güçlendirme Güçlendirme pertődet vi kinlon mantolan yaplacak akstandaki divarfan işaretlenerek en üst kottan başlanacak şeklide, balyoz ve kinci mantefotye yılaksaclatır. Divar yıkmı öncesi zarar görme sirki barındıran kapı, pencere, virtifiye, tergih, elektirik ve mekanik tesisat ekipmanları sökülecektir ve Faydalancı kurum tarofindan gösterilen alanlarda çeçici muhafaze olikcektir. Söküm işleminden sonra güçlendirme elemanlarının temellere bağlarması amarıyla perde ve kolon mantosu çorcisinin oçlması için subasman betomuran isrilması ve temel içi dolgasınını kazılması gerelmektedir. Bu ramı ve kazı işlemleri el ile (kına ve balyaz yardımıyla) ve/veya yapı içerisine girebilen küçük makinelerle (bobcatva) gerçekleştirlicedir. ATLASCON' HILL Yapısal Güçlendirme Taşıyıcı Sistem Güçlendirme Kern ve kan işlemir i tananlandıktan sonra mevut kolon, kiriş ve temelere ankraj cubukları çakir. Ankraj delikleri debay projekrindeki öçikter uygun olarak deli matlaşları'n mevut elemanlara delik açılması, deliğin hava kompresőrü le temellerimesi, epoksi yapşıtınının delik içerisine sıkliması ve önceden hazırlaran ankraj demirinin delik gerisine sokulması yelelinde yapplır.









## 2023

		Yapısal Güçlendirme  Taytıc Sistem Güçlendirme  Aniraj imalatları ile bezərber güçlerdime donatorun döçenmesi şirine başinacakor. Donatı numune kontroları sonara Phywood salaşıları kapısı	
10:48	10:51	<ul> <li>The renovations to be carried out for energy efficiency determined as a result of the survey are explained in detail.</li> <li>Solar Power Plants</li> <li>Heating Center Renovation</li> <li>Motor &amp; Pump Replacement</li> <li>LED Conversion</li> <li>Automation System</li> <li>Facade Insulation</li> <li>Terrace Roof Insulation</li> <li>Exterior Door Replacement</li> </ul> Image 9 PRESENTATION FILE SHARED SECTIONS_03	

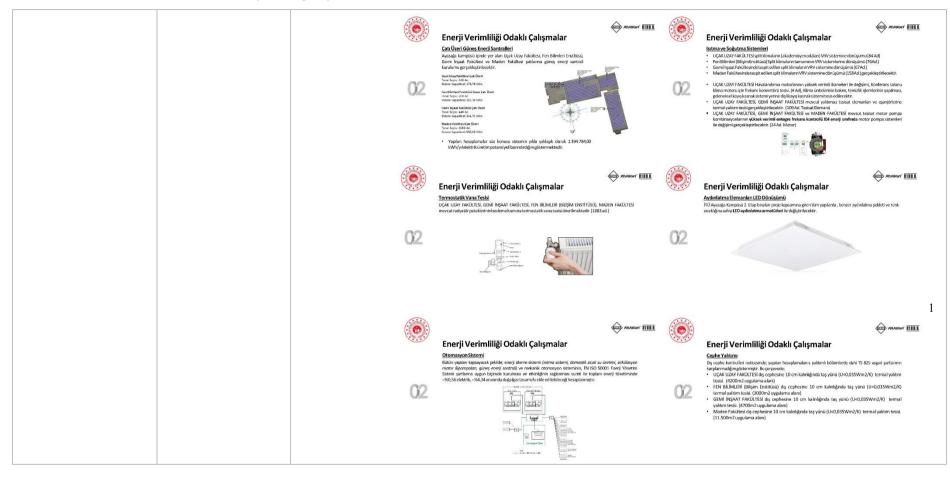








2023









		Enerji Verimliliği Odaklı Çalışmalar  Texas Cektur Yaltırını Yerlar Cektur İncelme nediceinde Gemi İnşust Fakülteri'nde çalıda yaşılan hesaşlamalırı mevcut termil yaltırını 15 825 şarılarını haşışlamadığın ortaya konşaktarı. Bu perçenceki;  - Gallı Maşar Takülütsi Veraçura Jul om MS (Qoğulum'ayağı termil yaltırını tesisi, metal kernet çatınını 30 cm tormal yaltınını sahip huzır çatı panollori ile değişimi yaşıfacatlır.  - Gemi İnşaşar Fakültını sahip aları (Zamz) - Gemi İnşaşar Fakültını sahip huzır çatı panollori ile değişimi yaşıfacatlır.  - Gemi İnşaşar Fakültını sahip aları (Zamz) - Gemi İnşaşar Fakültını sahip aları (Zamz) - Maden Fakültesi 2-45-67-89-10-11-12-31-14-18 nobi kapıları (Somz)	
		Enerji Verimliliği Odaklı Çalışmalar  Yapları hesaplamalar neticesinde ITD AYAZAĞA KAMPOSD 2. ETAP (Uçak Uzay Fakultes, Fen Bilinleri Enstitüs), Gemi İnşast Fakultesi, Maden Fakultesi, Osciende belerleren örlem senayolanının hayata geçirimesi ile toplam enerji tukeriminde 51,92% oranıda tasarur elde edilebilecek, yalaşık 1,837,60 tonyla sera gazı emisyonu engellenebilecektir. Soz konusu renovasyorlar ve yenilenes sazerimen eN ISO 50001 Enerji Yonetim Sistenia şaratınına uyganı biçimde işledimesi ile yelik 1,663,984,18 Wih elektrik, 2,007,339,52 kWh doğalgaz tasarrufu sağlanabilecektir. Soz konusu tasarrufun maddi boyutu yaklaşık 9,357,587,62 k/yıl seveyesindedir.	
10:51	10:54	<ul> <li>General statements regarding occupational health and safety plans were made within this framework;</li> <li>The issues taken into account within the framework of OHS plans were explained item by item.</li> <li>It was underlined that only authorized individuals will be able to access the areas where renovation works will be carried out, and therefore the access of building users will be restricted in some periods. It was reminded that work plans should be evaluated within this framework.</li> <li>General OHS rules and especially the measures to be taken for environmental safety were mentioned.</li> </ul>	







		The environmental impacts of all studies and the precautions to be taken were conveyed to all employees and the issues that stakeholders should pay attention to were explained.
		Image 10 PRESENTATION FILE SHARED SECTIONS_04
		iş Sağlığı & Güvenliği  Yapırı sür ecine lişkin. İş <u>asilabını planıtılanınıylar Yüldenidifirmanını:</u> Iş Sağlığı Güvenliği  Yapırı sür ecine lişkin. İş <u>asilabını planıtılanınıylar Yüldenidifirmanını:</u> Iş Sağlığı Güvenliği  Yapırı sür ecine lişkin. İş <u>asilabını planıtılanınınıylar Yüldenidifirmanını:</u> Iş Sağlığı Güvenliği  İş Sağlığı Güvenliği  Sahda kulularılanınınının taramınınının bayaqınınının taramınının periyeni iş Sadlığı Oliv Vildiği Pavalı ve ilkinarinin ve ilkinarinin taramınının periyeni iş Sadlığı ilkinarinin başının derinin taramının periyeni iş Sadlığı ilkinarinin başının derinin taramının periyeni iş Sadlığı ilkinarinin başının derinin taramının periyeni ilkinarinin taramının
		is Sağlığı Güvenliği Calqarlanı manış SALGIG GUVENLIĞ FLNI içinde belinden lejipel koruyucu dorunmıları diçipril yelde kullarınıda yakınının şödüldi Güvenliği Orak kirjisi koruyucu dorunmıları uygan yelde tayımayın/tullarınıyarıları Cirimatarı atim verinmeyenit.  Orak kirjisi koruyucud dorunmıları - kullar Kladı Sayları - koruyucud dorunmıları SEN 502 132-3 - koruyucud dorunmıları SEN 502 122-0 - ili yaylarıları si in verinyen dorunmıları si in sonu dorunmıları - kullar Kladı Sayları Sen 180 1802 13-3 - koruyucud dorunmıları SEN 502 122-0 - ili yayılarıları si in verinyen dorunmıları si in sonu dorunmıları - kullar Kladı Sayları Sen 180 1802 13-3 - koruyucud dorunmıları SEN 502 122-0 - ili yayılarıları ili SEN 502 124-0 - ili yayılarıları si in verinyen komeri - 15 EN 361 (Sadece yiliselte çalyan pursoneller)
10: 54	10: 56	■ Information was given about the traffic action plan.









		<ul> <li>Health &amp; Safety Organization was explained.</li> <li>Image 11 PRESENTATION FILE SHARED SECTIONS_05</li> </ul>
		Trafik Eylem Plani  • Kampüsiçin zara kultamıtlarına ilişkin sınıtar İşsadudi göveni küranniliçinde beliriliringir.  Sağlık & Güvenlik Organizasyonu
		THE PROPERTY OF THE PROPERTY O
10:56	11:00	■ The environmental impacts of the work to be carried out are explained.







# ve Enerii Verimliliği Projesi Image 12 PRESENTATION FILE SHARED SECTIONS\_06 ATLASCOT HILL Cevresel Etkiler Proje sahase TTÜ Ayazağa Kampüsü alanı İçerisindedir. Kampüs dışında yer alan diğer binaların inşaat süreçlerinden doğrudan etkilenmeleri söx konusu değildir. Faaliyet alanı çevresi aşağıda gösterilmiştir. Cevresel Etkiler İnşaat çalışmaları sırasında, bölgede hâlihazırda mevcut olan kanalizasyon, elektrik ve su şebekeleri kullanılacılıktır. Evsel atkkin, beledige hzmetlerinden faystlahnlorisk bestranf edileció, diger atkkar igni sie geçci depolama atariar i odsturuluja isarnif firmisiora bestranfinin yopimisa sajánoralatir. Proje čerelinde herbangi bir akupja firmed alim gelefrene di Amurati (jamallauguri hallameta) tilamisa socioca ularna (Valderia akupja firmed alim gelefrene) darimanti (jamallauguri hallameta) tilamisa socioca ularna (Valderia micasdie vk.) imocca ataripa jirmishalin (jeneratör vk.) degerlendriskosk ve ligiti yönetmeliklere uygun durale geziedelyitelecistir. ATLASCOT! HILL Çevresel Etkiler Çevresel Etkiler Proje kapsamında; Müşavirin, Yüklenici firma personellerine vereceği eğitiriler sonucunda, yüklenici firmanın kurumsal kapasitesinin gelişmesi beklenmektedir. Bu eğitimler aşağıda listelenmiştir. İnşaat, Hafriyat Atıkları: Söküm faaliyetlerisonucunda binaya alt zimmetli malzeme oluşması durumunda bina yönetimine çıkan malzemenin teslim edildiğine dair belge alınacaktır. İnşaut/yıkıntı atıklarının kazanı'ması ve özellikle alt yapı malzemesi olarak yeniden değerlendirinesi öncelikli olarak ele alınacaktır. Hatriyat atıkları ilgili belediyenin atık depolama tesisine gönderilerektir Atıkların sahayakobul deliceğine deir Beledeyeniden resmi yazı alınarak (karıye sunulacaktır. ATLASCON' HILL Çevresel Etkiler ATLASCORT HILL Atık Yönetimi Cevresel Etkiler Atık Yönetimi Oluşacak evsel nitelikli atıklar kaynağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir olanların geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim Santiye sahasında oluşması muhtemel tehlikeli kimyasal madde ve atıkların Çevre Şehircilik ve İklim Değişikliği Bakanlığı çevrimiçi programı Entegre Çevre Bilgi Sistemi (E-ÇBS) üzerinden atık yönetim üzerildirine billimlikirik İklimakılı bertarat Esikirini ve görderileneklir. Geri kazanımı mümkün olmayan atıklar, ağzı kapalı sıhhi çöp bidonlarında biriktirilecek, Yetkili Belediyenin katı atık toplama sistemi aracılığıyla düzenli depolama sahalarına gönderilecektir. Çalışma sahalarında döküntü sızıntı emici ped kitleri hazır bulundurulacıktır. Görevli bütün perso tehlikeli kimyasal sızıntı ve döküntüsüne ilişkin korunma ve acil durum eğitimine tabi tutulacaktır. Ambalaj Atıkları; Kontamine olmamış geri dönüştürülebilir atıkların (plastik, cam, kağıt, vb.) geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir. Ortave büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır. Todiat/inşaxt çalışmalan sırasında sökülen kulanılmış floresan lambalar ruhsatlı tesislerde bertaraf edileciklir. Malasmenin taşınmasına ve bertarafıra ilişkin gerakli belgeler, inpat şantiyesinde tutularak ve istenirse ÇSiD8ve Dünya Bankası'naibraz edilecektir. Tehlikeli maddeler ile kontamine olmuş atıkların tamamı, tehlikeli atık statüsünde değerlendirilecektir.









11:00	11:02	■ It has been announced that the works will not adversely affect the building strength.		
		<ul> <li>It has been stated that work areas should not be approached.</li> </ul>		
		Image 7 PRESENTATION FILE SHARED SECTIONS_07		
		Sosyal Etkiler  Podsajormas aktormak iste diğimiz hususlar şunlardır;  Podsajormas aktormak iste diğimiz hususlar şunlardır;  - 55k konuşu qilişmiri hujub adva emme ülmem çirildeneği içi konuşu değirler.  - Güçimin ve rimaveyen çirilen internesivendi, sulfanon çerile girilen yaylaşılarının yalındırına yalaşırının ilin husunda ya planıyyırılar direkte alarıları deşirilen ilin elekterilen çerile girilen çerile girilen çerile girilen çerile girilen çeri		
		Sosyal Etkiler  Proje lapsannosa. Majayarinn'i kile'niri persoreline verecapi ejepimier sonucunda yüklerini firmannı kurumsal kapsolutinin eylermici belikiremektori. Riu siğirinler avajada literkeremişir.  - Cavresia'e Soyal Steller  - Sukaya Kolanlı'i Mijerinderi'i Talayetleri  - Sukaya Kolanlı'i Mijerinderi'i Talayetleri  - Sukaya Kolanlı'i Mijerinderi'i Talayetleri  - Sukaya Kolanlı'ı Mijerinderi'i Talayetleri  - Sukaya Kolanlı'ı Tara'ı Faransi Çiliki (  - Tara'ı Miliosini Grutları   - Tara'ı Miliosini Grutl		
11:02	11:04	OHS rules and general environmental social impacts/measures that contractor companies must comply with; It was stated that it was explained in the OHS plan prepared specifically for this project and communicated to the relevant employees.		
		Image 8 PRESENTATION FILE SHARED SECTIONS_08		







		Yiddenich finnalens spinster ja sittigt av genetrij ja sittigt av genetriji ja sittig venetriji produce in ja sittigt av genetriji ja sittig venetriji produce in ja sittigt av genetriji ja sittig venetriji produce in ja sittigt av genetriji produce in ja sittig
11:04	11:09	Clarifications were made regarding stakeholder engagement, receiving and evaluating suggestions and grievances, and informing the relevant parties about this process (decisions taken regarding suggestions and grievances, additional measures implemented, etc.)  It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes.  It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181.  Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods.  It was announced that the grievances about gender-based violence (harassment, abuse, etc.) and gender-based discrimination, which were made within the scope of the project, will also be evaluated within the scope of the grievance resolution mechanism.  Image 9 PRESENTATION FILE SHARED SECTIONS_09  Image 9 PRESENTATION FILE SHARED SECTIONS_09  Oneri Skayet Sistemi  Oneri Skayet Sistem
11:09	11:15	Participants' questions were received and answered.  CLOSING speech was made and the meeting was ended.











# **Questions and Answers**

# **ANNEX VII/Table 2 QUESTION & ANSWER LIST**

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER
01	Participant 1	Can you give information about the tender for Vadi dormitories?	Ganime GÜZEL	It was stated that the project tender was held on March 29 and that the Beneficiary Institution will be contacted after its completion.
02	Participant 2	Can we see the projects?	Ganime GÜZEL	It was said that it would be shared with the beneficiary institution after the construction tender.
03	Participant 3	Why were the currents missing from the first detection projects?	Hüseyin TAVASLIOĞLU Tülün YILDIRIM	It has been stated that weak current work is out of scope within the scope of the contract.  It has been stated that the weak current will be dismantled and reassembled on site.
04	Participant 4	Will the roof be removed? Will it be evaluated block by block during the project phase?	Orhan Kenan SÜLAHİ Hüseyin TAVASLIOĞLU	It was stated that the necessary studies were carried out and the decision was made accordingly.  It was said that there were structures that were out of scope and were not evaluated.









# ANNEX VII/Table 3 MEETING NOTES & GENERAL EVALUATION

AININEX	INNEX VII/ Table 3 MEETING NOTES & GENERAL EVALUATION				
_	The brochures and appendix presentation files prepared within the framework of the SREEPB Project will be sent to all participants via their mobile phones or email addresses.				
_	Suggestion & grievance form link will be sent to all participants via their mobile phones or e-mail addresses.				

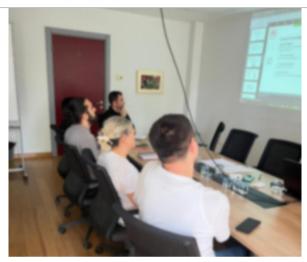




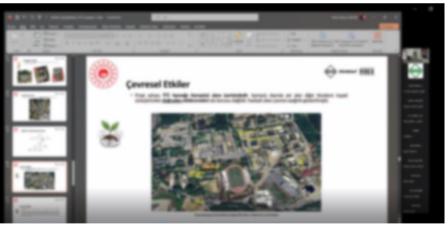




# **ANNEX VII/Table 4 MEETING VISUALS**















# Participant List and Contact Information

## Annex VII/Table 5 Participant List and Contact Information

Within the scope of the Law on the Protection of Personal Data Personal (Law No. 6698), participants' clear identity information cannot be shared. However, records of the meeting are kept by the PIU.

# CONSULTANCY COMPANY PARTICIPANTS

- 1) Fulya Gülbahar (Social Expert)
- 2) Hüseyin Tavaslıoğlu (Energy Systems Engineer)
- 3) Orhan Kenan Sülahi (Energy Systems Engineer)
- 4) Cem Akkuş (Occupational Health and Safety Specialist)
- 5) Mehmet Tuğran Atay (Environmental Expert)

## PROJECT IMPLEMENTATION UNIT PARTICIPANTS

- 1) Ganime Güzel (Environmental Expert)
- 2) Semahat Dicle Maybek (Social Expert)
- 3) Tülün Yıldırım (OHS Specialist)
- 4) Bedri Özdemir (Social Expert)
- 5) Cuma Baz (Occupational Health and Safety Consultant)

Explanation: The stakeholder engagement meeting was held on the digital platform ( <a href="https://meet.google.com/qhy-mqzb-ers">https://meet.google.com/qhy-mqzb-ers</a>) Video recording was made with the information and approval of the participants.







# Stakeholder Engagement Meeting Presentation





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# KAMU BİNALARINDA DEPREM DAYAMIMI & ENERJİ VERİMLİLİĞI PROJESİ

Finansmanı Dünya Bankası tarafından sağlanmakta, Hazine & Maliye Bakanlığı garantörlüğünde, Çevre, Şehircilik ve İklim Değişikliği Bakanlığı tarafından yürütülmektedir.







https://kamuguclendirme.csb.gov.tr

Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği (KADEV) Projesi; yüksek sismik risk altında ve enerji verimliliği düşük yükseköğretim binaları, yurtlar, sosyal hizmet kurumları, hastaneler ve hükümet konakları gibi kamu binalarında sismik güçlendirme ve enerji verimliliğine odaklanmıştır.

Bu sunum; Karamürsel-Gazanfer Bilge Öğrenci Yurdu (12.647m²) yapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmaları hakkında bilgi verecektir.







#### Yapım Asaması

Etüt neticesinde; yapısal güçlendirme ve enerji verimliliği odaklı re

#### Yapısal Güçlendirme

- Enerji Verimliliği



## Yapısal Güçlendirme

#### Taşıtıcı Sistem Güçlendirme

Güclendirme perdeleri ve kolon mantoları yapılacak akslardaki duvarlar isaretlenerek en üst kattan başlanacak şekilde, balyoz ve kırıcı marifetiyle yıldıacaktır. Düvar yıkımı öncesi zarar görme sirki barındıran; kapı, pencere, vitrifiye, tezgâh, elektrik ve mekariik tesisat ekipmanları sökülecektir ve Faydalanıcı kurum tarafından





### Yapısal Güçlendirme

#### Taşıtıcı Sistem Güçlendirme

Söküm işleminden sonra güçlendirme elemanlarının temellere bağlanması amacıyla perde ve kolon mantosu çevresinin açılması için subasınan betonunun kırılması ve temel içi dolgusunun karılması gerekmektedir. Bu kırım ve kazı işlemleri el ile (kırıcı ve balyoz yardımıyla) ve/veya yapı içerisine girebilen küçük makinelerle







## Yapısal Güçlendirme

#### Taşıyıcı Sistem Güçlendirme

Kırım ve kazı işlemleri tamamlandıktan sonra mevcut kolon, kiriş ve temellere ankraj çubuldan çakdır. Ankraj delikleri detay projelerindeki ölçülere uygun olarak delici matkaplarla mevcut elemanlara delik açılması, deliğin hava kompresörü ile temizlenmesi, epoksi yapıştırıcının delik içerisine sıkılması ve önceden hazırlanan ankraj





# Yapısal Güçlendirme Taşıtıcı Sistem Güçlendirme

Ankraj imalatları ile beraber güçlendirme donatısının döşenmesi işlerine başlanacaktır. Donatı numune kontrolleri sonrası Plywood kalıplar kapatılarak bir üst kat döşemesinden açıları delikten veya kuş ağrı da denilen kalıptan imal edilen huniler içerisinden kalıp içerisine "kendiliğinden yerleşen beton" (ince agregal















# Enerji Verimliliği Odaklı Çalışmalar



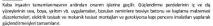
# Enerji Verimliliği Odaklı Çalışmalar

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#### ince işler









#### Çatı Üzeri Güneş Enerji Santralleri

Kırma çatı üzeri solar paneller ile elektrik üretimi sağlanacaktır. (180 Ad. Panel | 98,10 kW<sub>p</sub> Üretim Kapasitesi)



Yapılan hesaplamalar söz konusu sistemin yılda yaklaşık olarak 117.921,40 kWh/yıl elektrik üretim potansiyeli barındırdığını göstermektedir.

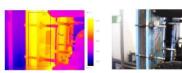


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Domestik sıcak su üretiminde kullanılan SWEP MARKA GL13 MODEL plakalı eşanjörlere (1,1 m2 uygulama alanı) ve termal açıdan yalıtımsız olduğu tespit edilen 62 adet ısıtma tesisat elem







### Enerji Verimliliği Odaklı Çalışmalar

#### Motor & Pompa Değişimi

Termis su hörfort ventor & pompular hart, tesisst üserinde yer alan 11 adet motor & pompuların 164 sınfı yüksek verimli integer firklara kontrolik motor & pompu a sistemlerin değiştirilinektir. Motor ve tahrik sörcinnir 164 sınfı yüksek verimli motorta (gili sayış kazak östemi 86 değiştirilinesi ve her bir motora rifesire kontrol üntels tesis edikecitir. Adıl mundak havalandıra & kilma ünte motor & pompuların tamanının 164 anındır enteger ferkans kontrolik mötor & pompuların tamanının 164 anındır enteger ferkans kontrolik mötor & pompuların tamanının 164 anındır enteger ferkans kontrolik mötor & pompuların tamanının 164 anındır enteger ferkans kontrolik mötor & pompuların tamanının 164 anındır enteger ferkans kontrolik mötor & pompuların sistemlerirle değiştirilerektir.



Âtıl durumdaki havalandırma ve klima ünite motorlarının IE4 sınıfı motorlar ile değişimi yapılıp, bütün motorlara pano tipi frekans konvertörü tesis edilecektir.

Ünite mekanik tahrik sisteminin dişli kayış kasnak sistemleri ile değişimi sağlanacaktır.





### Enerji Verimliliği Odaklı Çalışmalar

#### Termostatik Vana Tesisi

Proje kapsamına giren türn yapıların radyatör peteklerinin tamamına köşe tipi termostatik vana tesisi önerilmektedir. (2024/2 (20%) Yedek)









### Enerji Verimliliği Odaklı Çalışmalar

#### Aydınlatma Elemanları LED Dönüşümü

LED dönüşümü henüz gerçekleştirilmemiş E27 duylu dairesel armatürlerin, 800lm dairesel (downlight) sıva üstü LED aydınlatma armatürleri ile değiştirilecektir.







Karamürsel-Gazanfer Rilee Yurdu'na: Detaylı Enerii Yönetim Sistemi (isatma sistemi damestik sıcak su üretimi varianiuseesaaanie nige ruud na, beavja erieji roiteanii soeria gazina saarin, bornesiak soon sa breum, siriililasyon motor &pompalari, güneş enerji sontroll) ve mekanik otomasyon sisteminii, EN ISO 50001. Enerji Yönetim Sistem şartlarına uygun biçinde kurulmas ve etkinliğinin sağlanması sureti ile toplam enerji tüketiminde -%0,27 elektrik, -%3,90 oranında doğalgaz tasarrufu elde edilebileceği hesaplanmıştır.







#### Enerji Verimliliği Odaklı Çalışmalar

Dis cephe kontrolleri neticesinde; yapılan hesaplamalar ile TS 825 asgari sartlarının karşılanmadığını Day Ceptier kontroller i reaccessari, yapani nesapaninan ne 13 az.5 asgari yattarimi karyaannadajini göstemiştir. Bu çerçevede 10cm kalınlığında Us0,035Wm2/K şartını sağlayan taş yünü cephe kaplaması tesisi önerlimiştir. (Uygulama yüzey alanı: 5.140m2)









# Enerji Verimliliği Odaklı Çalışmalar

Verinde yapıları inceleme neticesinde çatıda yapıları hesaplamalar mevcut termal yalınımı TS 825 şartlarını karşılamadiğini ortaya koşmaktadır. Bu çerçevede kullarılmayan kırma çatı arası mevcut mineria kaplamalarını Sokülimesi veyerine, bir yüzü altımınıyım folyo kapıl camyünü çatı şistesi (Born kalınlıkta, 0,035 s. sılı iletlenliği < 0,040w/(m.k) olan) serilmesi (1900m2) önerilmiştir













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ATLASCOT' HILL

### Enerji Verimliliği Odaklı Çalışmalar



#### Enerji Verimliliği Odaklı Çalışmalar

Yapılan hesaplamalar neticesinde belirlenen önlem senaryolarının hayata geçirilmesi ile toplam enerji tüketiminde 34,23% oranında tasarruf elde edilebilecek, yaklaşık 284,94 ton/yıl sera gazı emisyonu engellenebilecektir. Söz konusu renovasyonlar ve yenilenen sistemlerin EN ISO 50001 Enerji Yönetim Sistem şartlarına uygun biçimde işletilmesi ile yıllık **144.097,06 kWh elektrik, 1.106.043,21 kWh doğalgaz** tasarrufu sağlanabilecektir. Söz konusu tasarrufun maddi boyutu yaklaşık 1.782.124,18 ₺/yıl seviyesindedir.

#### İş Sağlığı & Güvenliği

Yapım sürecine ilişkin, iş sağlığı ve güvenliği planları hazırlanmıştır. Yüklenici firmanın; Tarafımızca hazırlanan İŞ SAĞLIĞİ GÜVENLIĞİ PLANI doğrultusunda, sorumlu olduğu bütün çalışmaları



kapsar mahiyette İS SAĞLIĞI GÜVENLIĞİ PLANI ve Risk Analizini hazırlaması ve Müsavir onavına sunması zaruridir. Ancak söz konusu plan, analizlerin uygun görülmesi sonrasında çalışmalar başlayacaktır Paydaşlanmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

Mobil vinc, kompresör vib. iş makinderinin tamamının perkyodik muayene raporlarının temin edilmiş olması ve makindele içinde bazır bulundurulması zarurldir. Sök komuzu makinder, yetkili operatörler tarafından kullanılabilir. Operatörler yetki belgelerini hazır bulundurmalı ve saha kontrolleri, denetimleri exsusanda yetkilili Sü uzmanlarınını telepleri doğrultusunda beyon edebilmelidir.



### İş Sağlığı Güvenliği

- Sahada kullarıları her türlü elektrikli cihaz/ekipmanın elektrik açdan görenli okluğunu gösterir PAT testleri yapılmış olmaldır. Söz konusu ekipmanların tamamında cihaz üzerlerinde uygurluğu gösterir etiketler yer almalıdır.
- $Ancak uygun \textbf{\textit{Mesleki Yeterlilik Belgesine}} sahip çalışanların sahaya girmelerine izin verilecektir.$
- $\bullet \ \ \text{B\"{u}t\'{u}n çalışanları görevleri çerçevesinde uygun$ **kişisel koruyucu ekipmanlara**sahip olmalı ve etkin olarak kullanmalıdır.Bütün çalışanların, «Ternel İSG Eğitimini», «Risk Analizi Eğitimini» almış olması zaruridir.
- Yüksekte çalışacak personellerin «Yüksekte Çalışma Eğitimi» almış olması zaruridir.
   Bütün çalışanların «EKED Etiketle Kliftle Emniyete Al Dene Eğitimini» almış olması zaruridir.
- Çalışanların «İŞ SAĞLIĞI GÜVENLİĞİ PLANI» içinde belirtilen diğer ilgili eğitimleri çalışma öncesinde alması zarurldir.
- İş iskelelerinin TS EN 12811-1 standart şartlarını karşılarınsı esastır. Söz konusu iş iskelelerinde çalşacak bütün personellerin yüksekte çalşma eğitimi almış olmalan, paraşüt tipi emniyet kemeri ve düşme engelleyici ekipmanları
- Kampüs içinde İŞ SAĞLIĞI GÜVENLİĞİ PLANI içinde belirtilen «TRAFİK EYLEM PLANINA» uygun hareket edilmelidir.
- Yüklenici firma; bu çalışma sahası özelinde acil durum eylem planları geliştirmeli ve bütün çalışanlarını kapsar mahiyette tatbiladlar gerçekleştirmelidir.



# İş Sağlığı Güvenliği

Çalışanların tamamı İŞ SAĞLIĞI GÜVENLIĞI PLANI içinde belirtilen kişisel koruyucu donanımları disiplinli sekilde kullanmakla yükümlüdür. Söz konusu donanımları uygun sekilde taşımayan/kullanmayanların çalışmalarına izin verilmeyecektir.



- Baret TS EN 397+A1
- Kulak Tikacı TS FN 352-2 Koruvucu Gözlük - TS EN ISO 16321-3
  - Genel Amaçlı İş Eldiveni TS EN ISO 21420
  - İs Avakkabısı TS FM ISO 20347
  - Yarım Yüz Maskesi TS EN 140
  - Paraşüt Tipi Emniyet Kemeri TS EN 361 (Sadece yüksekte çalışanı)



## İş Sağlığı Güvenliği

Acil durumlarda çalışanların toplanacağı bölgeler, deprem riski de dikkate alınarak belirlenmiş ve vazivet planlarında eösterilmiştir





#### Trafik Eylem Planı





#### Sağlık & Güvenlik Organizasyonu





## Çevresel Etkiler

Proje sahası, Karamürsel- Gazanfer Bilge Öğrenci Yurdu alanı İçerisindedir. Kampüs dışında yer alan diğer binalam inşast süreçlerinden doğrudan ektilenmeleri söc konusu değildir. Pasifyet alanı çevresi aşabda götterimiştir.



















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#### Çevresel Etkiler



İnşaat çalışmaları sırasında, bölgede hâlihazırda mevcut olan kanalizasyon, elektrik ve su şebekeleri kullanılacıktır.

Evsel atkör, beledlye himmellerinden føydslenlarisk bestranf edilecek, diljer atkör (rin be geçid depolama abralari okstrudus) lannst filmaliara bestranfinn spølmas saljbracisktir. Proje celeride herhangi blir abraja filmart darin gelesfrædisk for attende blir blategar haller deli darina strandskort uppen filmaliar haller deli darina strandskort og deli saljen strandskort og deli saljen strandskort og deli saljen strandskort og deli saljen skalinari (jeneratör vb.) deglerfendriscek ve ligili yörstmeliktere uygun daraksprejdecistricktir.

#### Çevresel Etkiler



Proje kapsamında; Müşavirin, Yüklenici firma personellerine vereceği eğitimler sonucunda, yüklenici firmanın kurumsal kapasitesinin gelişmesi beklenmektedir. Bu eğitimler aşağıda listelenmiştir.

- Çevresel ve Sosyal Etkiler

#### Çevresel Etkiler



#### Atık Yönetimi İnşaat, Hafriyat Atıkları

- İnşaat/yılıntı atıklarının kazanılması ve özellikle alit yapı malzemesi olarak yeniden değerlendirilmesi öncelliki darak ele alınacaktır. Hafriyat atıldan liğifi belediyenin atık depolama tesisine gönderlerektir. Atıkların sahayakabu edileceğilen dali Belediyevinden resmiyaz alınarak (darqves sundacaktır.



## Çevresel Etkiler



Atık Yönetimi

Tehlikeli Atıklar:





- Proje sahasında tellekir ilektirin geçil ölenik depolarınsa durumunda atıları salakır, salamı, salmını, emnyedili ve ulunlaranısı kalalı gürnüş sahadıratı yayın kortiyaverlerin de yor ile ileçili engili bili yayında bili ya
- Zararlı maddelerin saldandığı konteynerler ve atık yağlar toprağa dökülme ve sırıntıyı önlemek için sızdırmaz beton alanlara yerleştirilecektir.
- Zehirli içeriğe sahip boyalar, eritici madde (solvent) ya da kurşun bazlı kimyasallar kullanılmayacaktır.



### Çevresel Etkiler

Atık Yönetimi

#### Tehlikeli Atıklar;



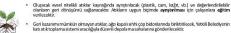
- Çalışma sahalarında döküntü sızıntı emici ped kitleri hazır bulundurulacaktır. Görevli bütün personeller tehlikeli kimyasal sızıntı ve döküntüsüne ilişkin korunma ve acil durum eğitimine tabi tutulacaktır.
- Orta ve büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır.
- Tadilat/inşaat çalışmaları sırasında sökülen kullanılmış floresan lambalar ruhsatlı tesislerde bertaraf edilecektir. Malzemenin taşınmasına ve bertarafına ilişkin gerekli belgeler, inşaat şantiyesinde tutularak ve istenine ÇİDBVe Düriya Bankası'nalizar edilecektir.



## Çevresel Etkiler

Atık Yönetimi

#### Evsel Atıklar:



#### Ambalaj Atıkları;

- Kontamine olmamış geri dönüştürülebilir atıkların (plastik, com, koğit, vb.) geri dönüşümü sağlanacaktır.
   Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir.
- Tehlikeli maddeler ile kontamine olmuş atıkların tamamı, tehlikeli atık statüsünde değerlendirile cektir.



### Sosyal Etkiler

Paydaşlarımıza aktarmak istediğimiz hususlar şunlardır;

- Söz konusu çalışmaların, bina dayanımını olumsuz etkilemesi söz konusu değildir.
- Güçlendirme ve renovasyon çalışmaları esnasında, kullanıcı ve diğer paydaşların çalışma sahalarına yaklaşma maları hususunda yapıları uyarıları di kkate alarak destek vermenizi rica ediyoruz.
- yanagırısınanı masunus yapıanı reyarımı unsace aları ak testek verirentzi indi etiliyürür.
  Güçlendirme ve Renovasyon çalışmaları sonrası; çalışma sahalarında gerekli düzenlemeler, görevli personeller tarafında ngerçekleştirilecektir. Bu konuya ilişkin şikayetlerindi kirfen bize bildirin.



- Projede görev alan çalışanların, hiç bir koşul altında paydaşlar ile tartışmaması hususunda gerekli uyanlar yapılacaktır. Böyle bir drurunla karşılaşılması halinde öneri ve şikayet mekanitmaları vasıtasıyla bizlere ulaşmanızı bekliyoruz. (Olen il şikayet sürin.)
- Bütün çalışanlarayırıncılık, cinsiyet temelli şiddet konusunda bilgilendirilecektir ve proje kapsamında bu tip davranışlara hiçbir şart ve koşul altında izin verilmeyeceği bil dirilmiştir. Bu yakdaşıma ayları hareket ederilerin projede görev almanınaya ak oğrevlerinin devamlılığına müsade edil meyecektir.







- Paydas Katılım/Bilgilendirme Faaliyetleri
- Şikayet Mekanizması (ŞM)
   Cinsiyet Eşitliği / Cinsiyet Ternelli Şiddet/Cinsel Sömürü/Cinsel Saldırı/Cinsel Taciz
- · Dayrans Kurallan
- Tarihi Mirasın Korunması





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Yüklenici firmaların uymaları gereken iş sağlığı ve güvenliği kuralları ile genel çevrese sosval etkiler/önlemler; bu prole özelinde hazırlanan İSG PLANI ve CEVRESEL ve SOSYAL YÖNETİM PLANI içinde açıklarmıştır.





















# Öneri Şikayet Sistemi



Oneri ve şikayetlerinizin; içeriği ne olursa olsun, nasıl kaleme alınırsa alınsın bizin için değeri olduğunu bilmenizi istiyoruz. Genel etik likelere buyunı iletoogliniz önen ve şikayetlerinizeln dalayı olumsuz herharagi bir durumla karşılaşmayacağınızı, eleştilmeyeceğinizi garanti ediyoruz. Öneri ve şikayetlerinizi hangi yörtemle iletirsezi *keltir (şikayetkutular)*, mail, internet formları, yüz yüze sözlü ya de telefori) heysi ayrı şeklide değerendirik, iramanı gizi bilgi statibisindedir, tarafızız kı kurul terafından

Bu proje hakkında genel bilgi almak, çevresel ve sosyal proje dokümanlarına erişmek ya da öneri ve şikayetlerinizi bildirmek için; <a href="https://kamuguclendirme.csb.gov.tr/">https://kamuguclendirme.csb.gov.tr/</a> web sayfasını ziyaret edebilirsiniz.



### Öneri Şikayet Sistemi

Cents, Sjehrcilik ver liktin Doğlağığı Bakarılığı'nı (ÇGİDB) hen telefon hern de svet sitesi arasılığıyla erişilektin tir Yaki'nî'i yardım hati varik. Bu yardım hati vayın zamanda çalişılarları, örür. CSIDB barafındın sağlaman tim cevn ev şehir hizmeldiri ile ilgil sovu tatey ev şikayetler yardır. CSIDB barafındın sağlaman tim cevn ev şehir hizmeldiri ile ilgil sovu tatey ev şikayetler profesyonel darak yönellen ALO 181 çağın merkezi tarafından yerillarımaktadır ya de Proje Uygulama Birimin cildimistodir.

KADEV projesi için şikayet ve öneri sahipleri aşağıda verilen farklı kanallardan taleplerini

: Alo 181 : 0312 586 4858 : yigmkadev@csb.gow.tr : https://kadevoneri.cs





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