



**THE WORLD BANK**  
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SEISMIC RESILIENCE AND ENERGY EFFICIENCY  
IN PUBLIC BUILDINGS PROJECT  
(SREEPB PROJECT)

BOGAZICI UNIVERSITY  
UCAKSAVAR CAMPUS (SUPERDORM STUDENT DORMITORY)

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

DECEMBER  
2023



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## Abbreviations

BU	Bogazici University
BP	Bank Procedure
CİMER	Presidency's Communication Center
E&S	Environmental and Social
EA	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
MoEUCC	Ministry of Environment, Urbanization, and Climate Change
WB	World Bank
dBA	Noise Reduction and Control
dB	Noise Rating Measure
LOTO	Lock Out-Tag Out
SPP	Solar Power Plant
ILO	International Labor Organization
M&E	Monitoring and Evaluation
ITU	Istanbul Technical University
OHS	Occupational Health and Safety
SREEPB	Seismic Resilience Energy Efficiency Public Buildings
PPE	Personal Protective Equipment
Consultant	Tümaş & ATLASCert® & Hill Joint Venture
PIU	Project Implementation Unit
PV	Photovoltaic Panel
SGI	Social Security Institution
GM	Grievance Mechanism
GDCA	General Directorate of Construction Affairs

## Executive Summary

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

This document provides information about the structural strengthening and energy efficiency improvement works for the Superdorm Student Dormitory building located on the BU Uçaksavar Campus. It outlines the national and international regulations applicable to these works and discusses the measures to be taken to keep or eliminate the potential adverse environmental and social impacts at an acceptable level during the works, as well as the precautions to be taken in terms of occupational health and safety. Additionally, this Environmental and Social Management Plan (ESMP) provides information about stakeholder engagement activities and the establishment of a Grievance Mechanism within the project scope, outlining the roles and responsibilities of relevant parties involved in the project.

# Introduction

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This Environmental and Social Management Plan (ESMP) has been prepared within the Seismic Resilience and Energy Efficiency in Public Buildings Project (SREEPB) for the structural strengthening and energy efficiency-focused renewal activities planned in the dormitory building consisting of four blocks (A, B, C1, and C2) located in Boğaziçi University Uçaksavar Campus, Etiler Mahallesi, Cengiz Topel Caddesi 2/4, Beşiktaş/Istanbul. Its purpose is to outline the measures necessary to maintain or eliminate the adverse environmental and social impacts and risks that may arise from these activities 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

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## 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 strengthening 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 strengthening works include building load-bearing system improvements and additions, as well as activities such as grouting and micro piling related to ground reinforcement (*limited only to the floors of the buildings in scope*), if required. 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.

All structures covered within the scope of this Environmental and Social Management Plan (ESMP) are located within Boğaziçi University Uçaksavar Campus. Other buildings/structures outside the university or in the district are not directly affected by the mentioned project activities. In addition, the covered buildings within the campus are currently vacated. 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 of the buildings located within Boğaziçi University Uçaksavar Campus and detailed information about the buildings are provided in Figure 1 and Table 1, respectively, as part of the project.



Figure 1: BUILDINGS INCLUDED IN THE UÇAKSAVAR CAMPUS PROJECT



Table 1: GENERAL INFORMATION ABOUT BUILDINGS

<b>CAMPUS NAME</b>	Boğaziçi University Ucakşavar Campus
<b>BUILDING NAMES (included in the project)</b>	<ul style="list-style-type: none"> <li>• Superdorm Student Dormitory – (19.700 m<sup>2</sup>)</li> </ul>
<b>PROVINCE</b>	ISTANBUL
<b>DISTRICT</b>	BESIKTAS
<b>NUMBER OF USERS</b>	~533 people/day
<b>BUILDING INFORMATION</b>	
<b>CONSTRUCTION AREA</b>	~22.562 m <sup>2</sup>
<b>THE PLANNED WORKS TO BE CARRIED OUT IN ALL BUILDINGS INCLUDED IN THE PROJECT</b>	
<b>STRUCTURAL REINFORCEMENT</b>	<ul style="list-style-type: none"> <li>• Existing load-bearing system reinforcement.</li> <li>• Additional load-bearing system manufacturing</li> <li>• Floor, ceiling, wall and door renovations due to structural strengthening activities</li> </ul>
<b>ENERGY EFFICIENCY</b>	<ul style="list-style-type: none"> <li>• Facade and roof thermal insulation</li> <li>• Door replacements</li> <li>• Circulation system engine/pump replacements</li> <li>• Non-insulated installation elements, thermal insulation installation for heat exchangers</li> <li>• Central boiler replacements</li> <li>• Lighting element replacements (one-to-one replacements will be carried out, electrical installation intervention (line, column line replacement, etc.) is out of the question)</li> <li>• Self-consumption-oriented 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>• Mechanical automation and energy measurement monitoring system</li> </ul>
<b>DURATION AND SEASON OF ACTIVITIES</b>	
All the activities to be carried out within the scope of the project will be completed between the first quarter of 2024 and the third quarter of 2024. The contractor is obligated to complete the work on 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.	
<b>EXPECTED NUMBER OF WORKERS</b>	
The total estimated number of workers in the buildings is expected to be an average of 80 personnel per day.	

### 1.1.3 Locations of Campus & Buildings

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



No	Latitude	Longitude
1	41.0860	29.0418
2	41.0860	29.0409
3	41.0860	29.0399
4	41.0858	29.0398
5	41.0862	29.0396
6	41.0867	29.0394
7	41.0865	29.0388
8	41.0860	29.0382
9	41.0858	29.0381
10	41.0856	29.0384
11	41.0857	29.0385
12	41.0855	29.0392
13	41.0853	29.0391
14	41.0851	29.0398
15	41.0849	29.0409
16	41.0849	29.0411
17	41.0849	29.0418
18	41.0857	29.0418

Figure 2: CAMPUS BORDERS AND COORDINATES

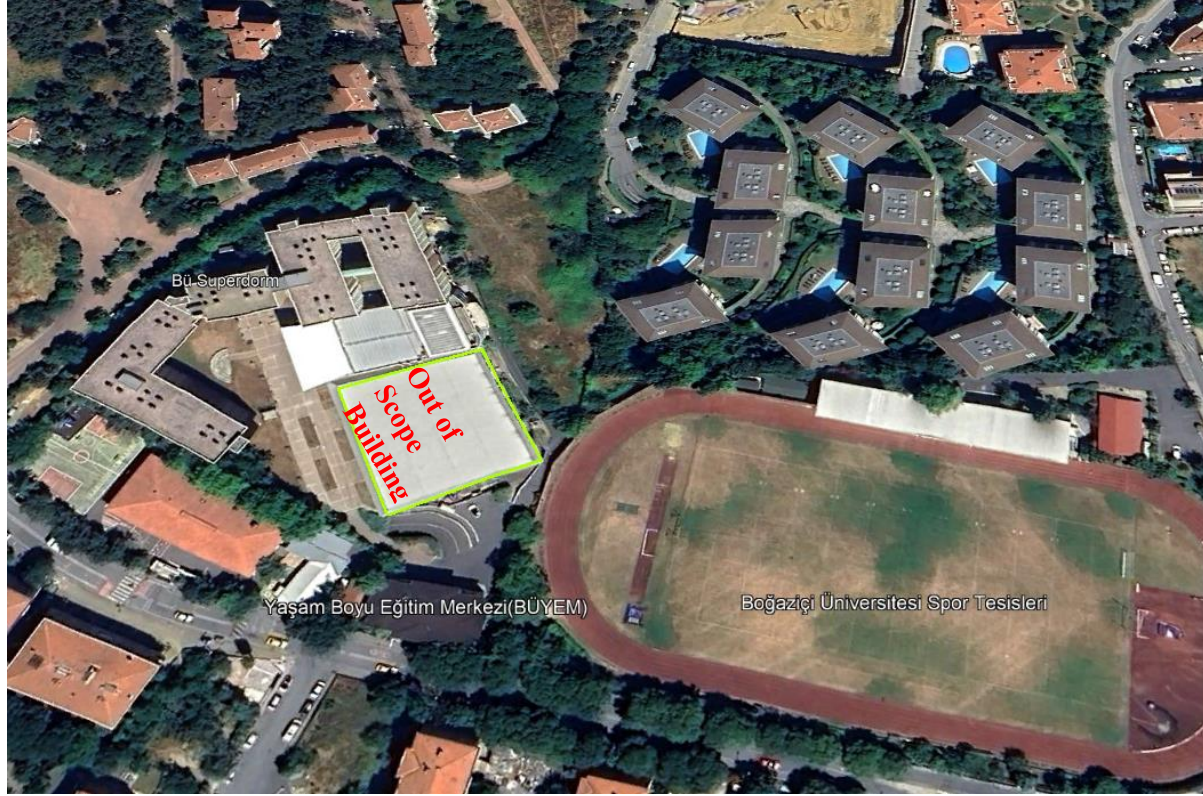
The coordinates and approach boundaries of the buildings within the scope of the project are given in Figure 3-4-5-6.



Longitude	Latitude
29.0388	41.0859
29.0386	41.0860
29.0387	41.0861
29.0389	41.08621
29.0389	41.0861
29.0395	41.0863

29.0394	41.0867
29.0388	41.0865
29.0388	41.0864
29.0385	41.0863
29.0383	41.0859
29.0388	41.0857
29.0389	41.0858
29.0389	41.0859

Figure 3: SUPERDORM (STUDENT DORMITORY BLOCKS) VIEW AND COORDINATES



Possible negative impacts that may occur during the retrofitting construction in the buildings such as noise and dust generation, traffic increase, parking space shortage, vibration and visual impacts are limited to 50 m from the surrounding buildings and the major impact area is shown in Figure 5.

Housing (Kocayigit Sokak)  
Release Date: 03.11.2023 / Rev.01

Badur Boğaziçi Houses



Figure 4: APPROACH DISTANCES AND MAJOR AREA OF IMPACT OF THE BUILDINGS INCLUDED IN THE SCOPE OF THE PROJECT

Orgeneral Kami Güzey Primary  
School

Out of Scope



Figure 5: MAP SHOWING THE PROJECT AREA AND ITS SURROUNDINGS  
Photographs of the buildings within the scope of the project are given in Annex I.

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

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### 2.1 National Regulation

The ESMP has been primarily prepared in accordance with the legislation of the Republic of Türkiye. The fundamental framework of Türkiye's environmental legislation is the Environmental Law (Law No. 2872), which was first Published in the Official Gazette dated August 11, 1983, and last revised in the Official Gazette dated June 15, 2022, with issue number 31867. This law is supported by regulations. Below are the regulations primarily utilized/ to be utilized for the assessment and prevention of environmental impacts within the scope of this project.

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.
7. 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 was published in the Official Gazette dated 31 December 2004 and numbered 25687, and was last amended in the Official Gazette numbered 32046 dated 17 December 2022.
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.



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.

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

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

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

<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

Summary technical information about the structural strengthening and energy efficiency works to be carried out at Boğaziçi University Ucaksavar Campus located in Beşiktaş/İstanbul is given in Table 3 below. This ESMP will be accessible to all stakeholders at the construction sites and on the project website ([www.kamuguclendirme.csb.gov.tr](http://www.kamuguclendirme.csb.gov.tr)). In addition, it must be published on the websites of the project and Boğaziçi University 10 days before the meeting, so that stakeholders can review the document with sufficient information about the project before the information meeting. A full-time environmental and occupational health and safety (OHS) specialist within the Contractor; An environmental expert, a social expert and an OHS expert will be employed within the Construction Supervision Consultancy firm. The Consultant, the Contractor and the Ministry's Project Implementation Unit will be responsible for recording and answering the questions and opinions regarding environmental, social and OHS issues received by the stakeholders.

Table 3 SUMMARY INFORMATION ABOUT THE ACTIVITIES TO BE CONDUCTED

<b>FIELDWORK</b>	
DEFINITION OF THE GEOGRAPHICAL, PHYSICAL, BIOLOGICAL, GEOLOGICAL, HYDROGRAPHIC, AND SOCIO-ECONOMIC CONTEXT	
	<p>Figure 6: SUPERDORM (STUDENT DORMITORY) AND ITS SURROUNDINGS</p>
	<p>It is expected that the soil around the buildings will be affected by construction activities during the implementation of the project activities (such as scaffolding installation, painting, exterior facade cladding, etc.). Necessary precautions will be taken to prevent hazardous chemicals from contaminating the soil during the work to be carried out in this area. The measures to be taken to manage the possible environmental and social impacts and risks of the project are presented in detail in Section 5. No problems are foreseen in transportation to the project area. All infrastructure facilities required for the works, such as electricity, water, sewerage, natural gas and internet, are available.</p>

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

The project site is within the Boğaziçi University Ucaksavar Campus area. Other buildings located outside the campus are not directly affected by the construction processes.

- The surrounding area of the operational field is shown in Figure 5 and Figure 6. The Garanti Cultural Center, Lifelong Learning Center, and Antiaircraft Sports Complex are excluded from the project scope within the major impact area due to the seismic strengthening and energy efficiency processes to be carried out on the Superdorm (Student Dormitories) Building. Additionally, it is expected that the residence building near the project, the construction process of which may be affected. Potential issues in waste management, such as noise, dust, vibration, and the spread of excavation waste outside the construction site, can negatively impact those working/living in the mentioned buildings. Detailed information on this matter and the precautions to be taken are provided in Section 5. Furthermore, the information will be communicated to the university management at least 7 days before each stage of the construction process (since the buildings are vacant and there are no users). The construction schedule will be kept visible at the construction site in a location accessible to stakeholders, continuously updated throughout the project duration.
- The measured distances from structures outside the university to the structures covered by the project are provided below.
  - General Kami Güzey Primary School (10m)
  - Housing (Koçyiğitler Street). – 25m
  - Badur Boğaziçi Houses – 45 m

Due to the close proximity of Orgeneral Kami Güzey Primary School, especially, its potential environmental and social risks/effects (such as dust, noise, community health and safety, etc.) may be impacted by the project activities. The measures to control, reduce, and/or eliminate possible environmental and social risks/effects arising from project activities are detailed in Section 5.

- Orgeneral Kami Güzey Primary School, located in close proximity to the project area, and the residences within the impact area are considered sensitive receptors. Measures to prevent these sensitive receptors from being affected by possible environmental and social impacts/risks within the project scope are presented in Section 5. Approximately 360 m away from the project site, there is a Family Health Center, and a fully equipped Beşiktaş Sait Çiftçi State Hospital is located at a distance of about 8 km. Taking traffic conditions into account, transportation by car takes approximately 30 minutes. This information will be considered when preparing occupational health and safety emergency action plans.

TRAFFIC ACTION PLAN

When examining the activity area and its surroundings, it is anticipated that there won't be any issues during the transportation of the materials required for construction activities.

Access roads and rules are specified in the Traffic Action Plan.

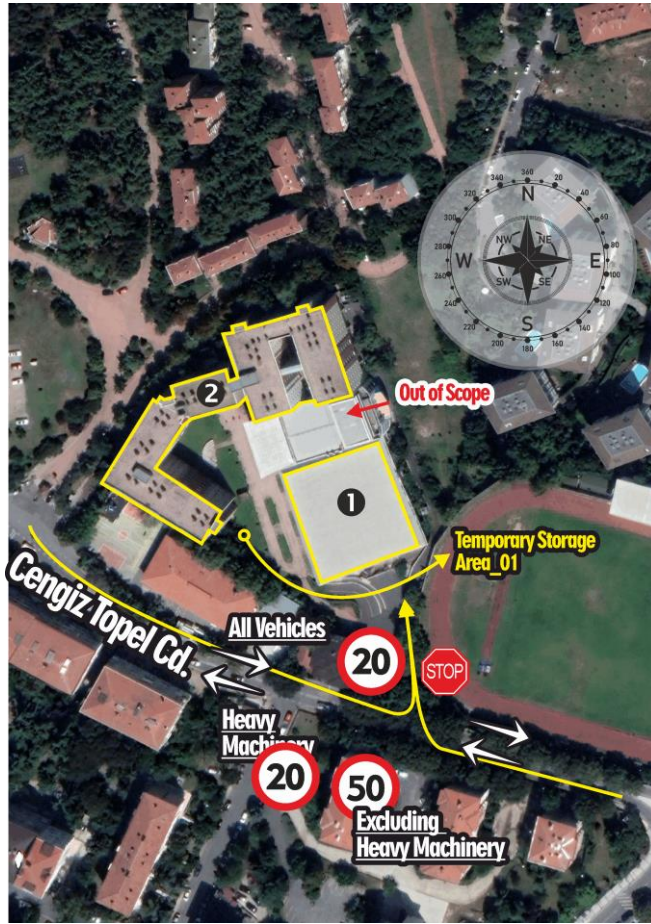


Figure 7: TRAFFIC ACTION PLAN

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.), the existing infrastructure facilities will be evaluated, and the necessary actions will be taken in accordance with relevant regulations.

<p>NATIONAL LEGISLATION AND PERMITS APPLICABLE TO THE PROJECT ACTIVITY (EG. SPP INSTALLATION ETC.)</p>	<p>The existing building permits will be used for the unlicensed electricity generation application of the SPP facility.</p> <p>The documents to be obtained for Unlicensed Electricity Generation are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Documents required for the Call Letter from the Authorized Electricity Distribution Company, <ul style="list-style-type: none"> <li>▪ Unlicensed generation connection application form,</li> <li>▪ Non-fixed subscriber number,</li> <li>▪ Receipt showing the application fee has been deposited into the account of the relevant network operator,</li> <li>▪ Single Line Diagram showing the technical specifications of the facility to be installed,</li> <li>▪ SPP Technical Evaluation Form prepared by the Directorate General of Renewable Energy, personnel program,</li> <li>▪ Approved coordinated application diagram,</li> <li>▪ Building occupancy permit in roof-type applications,</li> </ul> </li> <li>• SPP Static Projects (Roof-Top SPP Plants) Approval</li> <li>• "Connection Opinion" and "Connection Agreement Call Letter" to be obtained from the relevant distribution company</li> <li>• System Basic Information Form</li> <li>• Technical project and calculations</li> <li>• Municipality Compliance Letter for SPP (According to the Zoning Regulation Legislation)</li> </ul> <p>An application for the installation of photovoltaic panels under the "Regulation on Unlicensed Electricity Generation in the Electricity Market" has been initiated by the Consultant through the authorized energy distribution company.</p>
<p><b>STAKEHOLDER ENGAGEMENT PROCESS</b></p>	
<p>STAKEHOLDER ENGAGEMENT PROCESS</p>	<p>The first stakeholder participation meeting regarding the feasibility studies carried out before the field evaluation (determination of the need for structural strengthening, energy audit studies) was held face to face on 09.03.2023 and general information was given about the technical details, purpose/targets and stages of the project. (Annex VI)</p> <p>Before the implementation of the prepared and approved projects, a stakeholder information meeting was held on 12.12.2023 in order to provide information about the technical, social and environmental details of the project by relevant experts, to answer all questions of the participants about the project and to obtain their opinions. At the meeting, detailed information was given about the retrofitting and energy efficiency renovations to be made on the Ucaksavar campus and the anticipated environmental and social impacts were explained. The beneficiary institution management and technical units, General Kami Güzey school principal, experts of the consultancy firm and PIU experts attended the meeting. 14 people (3 women, 11 men) attended the meeting in person; Environmental Expert, Social Expert, OHS Specialist and 2 Civil Engineers of the PIU and also the OHS Expert of TÜMAŞ (man) attended the meeting online (4 women, 2 man) . Detailed information is in Annex VII.</p> <p>Before the information meeting, this ESMP was published on the website of both the project and Boğaziçi University for 10 days and made available to stakeholders. Additionally, a hard copy of this ESMP was made available to stakeholders in all buildings included in the project for at least 10 days.</p> <p>Details about the Grievance Mechanism established specifically for the project are presented in Section 4.</p>

<p>ISSUES AND CONCERNS RAISED BY BUILDING USERS</p>	<p>Building users at the information meeting regarding the feasibility studies held on 09.03.2023; The participants were informed about the structural retrofitting and energy efficiency renovation process and asked if they had any concerns, opinions, suggestions and/or questions regarding these possible activities. During and after this period (until the date of preparation of this report), there was no feedback from any stakeholder regarding the project, either written/verbally or through the project Grievance Mechanism.</p> <p>Whether students and other building users have concerns regarding these studies will be expressed during the stakeholder participation meetings held for the ESMP and will be recorded in the stakeholder participation meeting minutes, and the opinions/suggestions and concerns of the stakeholders are included in Annex VII. This document has been revised in the light of additional data obtained as a result of the meeting.</p>
<p>INSTITUTIONAL CAPACITY DEVELOPMENT</p>	
<p>TRAINING</p>	<p>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:</p> <ul style="list-style-type: none"><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>• Tagging and Lockout Training</li><li>• Work Permit System Training</li></ul>



## 4. Stakeholder Engagement and Grievance Mechanism (GM)

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Stakeholder Participation is an inclusive process that will be carried out throughout the project life, supporting the establishment of strong, constructive, and sensitive business relationships essential for the successful management of environmental and social impacts and risks of the project. The Stakeholder Participation Meeting helps manage stakeholder expectations that may affect the management of risks, potential disputes, and project delays by providing early, frequent, and open communication throughout the project's life. Therefore, a stakeholder information meeting regarding feasibility studies (identifying the need for structural strengthening, energy feasibility studies) was organized on March 9, 2023, with a total of 25 participants, including 5 women and 20 men, before the field assessment. General information about the reasons, goals/objectives, and stages of the project was provided during this meeting (Annex VI).

The ESMP specific to this sub-project will be published on the SREEPB Project's website (<https://kamuguclendirme.csb.gov.tr/>) throughout the project life for all stakeholders to be informed about how the project will be implemented in the field and to receive objections and suggestions if any. It was also disclosed on December 2, 2023, for the Superdorm Building within the sub-project scope. Following the completion of the public disclosure process, a Stakeholder Participation Meeting was held again on December 12, 2023, to provide information on the technical, social, and environmental details of the project by relevant experts, answer any questions from participants, and gather their opinions. The meeting was attended by the contractor, beneficiary institution management and technical units, the principal of Orgeneral Kami Güney Primary School, and relevant experts from the Project Implementation Unit, with a total of 20 participants, including 7 women and 13 men. Details about the Stakeholder Participation Meeting are provided in Annex VII.

In addition, the consultant prepared promotional materials (brochures, posters, etc.) for informational purposes and ensured their delivery to stakeholders.

One of the crucial elements facilitating Stakeholder Participation in the project is the Grievance Mechanism, providing effective access to a procedure for grievances, or suggestions for those affected by the project or related parties. Grievances can be an indicator of stakeholder concerns and may increase if not identified and addressed. Recognizing and responding to grievances supports the development of positive relationships between project staff, local communities, and other stakeholders.

The Ministry of Environment, Urbanization, and Climate Change has established various alternative methods for collecting grievances and suggestions at the institutional level.

The Ministry of Environment, Urbanization, and Climate Change PIU has developed a transparent and comprehensive GM specifically for the SREEPB Project to receive, evaluate, and disclose grievances, opinions, and suggestions that may arise during the implementation of activities in public buildings within the scope of the SREEPB Project, before the project implementation begins. This mechanism will assist all relevant stakeholders in conveying their grievances, opinions, and suggestions about the activities to the relevant individuals and institutions and strengthen stakeholder participation in the project. The mechanism also enables all employees involved in the project (PIU, Consultant, Contractor) to submit their grievances/suggestions/views to the Ministry and the World Bank either anonymously or openly. The responsibilities and duties of the Contractor, consulting firm, and Ministry are detailed in the Stakeholder Participation Framework of the Project ([https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894\\_paydas-katilim-cercevesi-mayis-final\\_20210521122305.pdf](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 obligated to implement the Environmental and Social Management Plan, Stakeholder Participation Framework, and

Labor Management Procedure of the Project. Grievances within the SREEPB Project will be addressed at multiple levels:

- a) At the contractor level;
- b) At the consultant level;
- c) At the Provincial Directorates of the MoEUCC level.
- d) At the national level, at the MoEUCC Project Implementation Unit (PIU).

**a) Contractor Level:** 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 in accordance with 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 on a weekly basis. The contractor is obliged to resolve grievances within 15 calendar days at the latest.

**b) Consultant Level:** Concerns/views/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 situation 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/views/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/views/recommendations they receive and those conveyed by the contractor to the Ministry of Environment, Urbanization, and Climate Change on a weekly basis.

**c) Provincial Directorate of Environment, Urbanization, and Climate Change Level:** To the extent possible, the Provincial Directorate of Environment, Urbanization, and Climate Change will be responsible for grievances /concerns/views/recommendations received regarding activities carried out within the scope of the SREEPB Project.

Provincial directorates will also promptly forward all grievances / concerns / views / recommendations received, whether or not they resolve them, to the Authority.

**e) MoEUCC Level:** Within the scope of the SREEPB Project, MoEUCC is responsible for collecting, recording, and resolving all grievances/concerns/views/recommendations expressed by stakeholders through the levels mentioned above. MoEUCC is responsible for resolving the collected grievances/concerns/views/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.

For grievances related to gender-based violence, sexual exploitation, and harassment, it is recommended to use the web-based grievance system provided in Annex III for the sake of confidentiality. To ensure confidentiality, authorized personnel will have access to this web-based grievance system.

The Ministry of Environment, Urbanization, and Climate Change has established various alternative methods for institutional grievance and suggestion collection.

In addition to the defined Grievance Mechanism at different levels, stakeholders throughout the project's lifespan can also utilize the national grievance mechanism channels detailed below. These channels for submitting grievances and suggestions to the administration include, among others, the Directorate of Communications (DOC):

Table 4 DIRECTORATE OF COMMUNICATIONS COMMUNICATION CHANNELS

Website	: <a href="https://www.cimer.gov.tr">https://www.cimer.gov.tr</a> <a href="https://giris.turkiye.gov.tr">https://giris.turkiye.gov.tr</a>
Help Line	: Alo 150
Mailing Address:	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	: <a href="mailto:yigmkadev@csb.gov.tr">yigmkadev@csb.gov.tr</a>
Grievance	: <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 suggestion 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) ([https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894\\_paydas-katilim-cercevesi-mayis-final\\_20210521122305.pdf](https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894_paydas-katilim-cercevesi-mayis-final_20210521122305.pdf)).

The Construction Contractor is responsible for receiving, recording, and resolving, opinions, and suggestions 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 Appendices 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 on a weekly basis.

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 (<https://www.worldbank.org/en/projects-operations/products-and-services/grievance-redress-service>).

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 opportunity to respond to the grievances. For information on how to submit grievances to the WB Inspection Panel, please visit [www.inspectionpanel.org](http://www.inspectionpanel.org).

## 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	<p><b>a) OHS</b></p> <p>Possible adverse safety and health effects for workers, local population and employees due to:</p> <ul style="list-style-type: none"> <li>- Possible injuries that employees may be exposed to due to reasons such as working at height, working with hazardous materials, electrical tools;</li> <li>- National and defined international occupational health and safety in the workplace -</li> </ul>	<ul style="list-style-type: none"> <li>• Local construction and environmental regulatory authorities and communities will be informed about the activities to be undertaken.</li> <li>• The public will be informed through stakeholder participation, in the media, and/or through appropriate notifications in public places.</li> <li>• All necessary permits, as required by law, will be obtained for construction and/or improvement.</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 and the requirements of the World Bank standards.</li> <li>• Detailed information and analyses related to 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

	<p>Failure to comply with national and defined international occupational health and safety requirements in the workplace;</p>	<ul style="list-style-type: none"> <li>• 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.</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 and the requirements of the World Bank standards.</li> <li>• Health and safety measures and environmental measures related to the restructuring of the public building will be detailed in the project-specific Waste Management Plan and Occupational Health and Safety Management Plan.</li> <li>• The Contractor company will prepare its own OHS plan for the work it will carry out, taking into account the Occupational Health and Safety (OHS) Plan prepared by the Consultant.</li> </ul>	<p>Consultant PIU Contractor</p>
		<ul style="list-style-type: none"> <li>• 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 (<a href="https://webdosya.csb.gov.tr/kamuguclendirme/menu/SREEPB-p175894_csyc_final100521--mayis_20210510070430.pdf">https://webdosya.csb.gov.tr/kamuguclendirme/menu/SREEPB-p175894_csyc_final100521--mayis_20210510070430.pdf</a>)) such as the Asbestos-Containing Structure Dismantling Procedure.</li> <li>• Proper signage will be used on construction sites to inform workers of basic rules and regulations they should follow.</li> </ul>	<p>Consultant Contractor</p>

		<ul style="list-style-type: none"><li>• Occupational Health and Safety (OHS) training will be provided to employees, identifying potential risks related to the work site and tasks, and weekly and monthly site safety meetings will be conducted.</li><li>• The contractor formally acknowledges that all work will be carried out in a safe and disciplined manner to minimize the impact on local community and the environment as designed.</li><li>• The contractor will appoint personnel/responsible/experts with relevant certification and experience in occupational health and safety.</li><li>• The contractor will provide personal protective equipment (PPE) (such as helmets, masks, safety glasses, safety harnesses, and safety boots, when required) in accordance with international best practices and Turkish legislation to ensure a safe working environment for workers before construction activities commence.</li><li>• Suitable rest areas for employees to rest during breaks will be provided by the contractor in consultation with building management (<i>number of employees, break times</i>) and with their permission and approval.</li><li>• Dining areas for employees will be established in areas designated by the building technical units under the written permission and approval of the University administration.</li><li>• Changing rooms (lockable) for employees will be provided within the buildings with the written permission and approval of the University administration. These areas will be determined by building technical staff, and the use of areas outside of these designated spaces will be strictly prohibited. Employees will be informed by the contractor not to keep valuable items in these areas, and the University administration will not be responsible for any theft or similar incidents that may occur in these areas. This information will also be posted on warning signs.</li><li>• Toilet facilities for employees will be provided from building infrastructure with the written permission and approval of the University administration. In cases where existing infrastructure cannot be used, WC containers will be arranged by the contractor for</li></ul>	
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		<p>the use of workers and will contain all necessary hygiene materials. However:</p> <ul style="list-style-type: none"><li>▪ 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.</li><li>▪ 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.</li><li>▪ The contractor will provide all necessary materials for hygiene that employees may need.</li></ul> <ul style="list-style-type: none"><li>• The contractor will provide work uniforms that display the project name to easily distinguish the employees.</li><li>• 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 individual or activities, employees will immediately report three situation to their supervisor (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.</li><li>• 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 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).</li><li>• In the event of an outbreak or pandemic/infectious disease, guidance, guidelines, and recommendations provided by the Ministry of Health,</li></ul>	
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		<p>the Ministry of Labor and Social Security, and the World Health Organization will be followed. Relevant measures for both employees and workplaces will be taken for occupational health and safety.</p> <ul style="list-style-type: none"><li>• Unauthorized third parties will be prevented from entering the construction site. The names of the personnel to be employed in the construction site, along with their required training certificates, will be submitted to the consultant in a list format. Employees with appropriate training and personal protective equipment will enter the construction site with ID cards.</li><li>• Individuals under the age of 18 will not be allowed to enter the construction site.</li><li>• Smoking areas within the construction site will be determined by the contractor.</li><li>• Food, beverage, break/rest, toilet, and restroom needs will be provided in areas designated by the technical units within the building where work will be conducted. This matter will be under the knowledge of university administrations. Employees working on the project will not leave the designated areas.</li><li>• Hygiene materials necessary for workers will be provided by the contractor. Sewerage infrastructure in the region will be used for wastewater.</li><li>• Packaged water (in plastic bottles, glass bottles, etc.) will be provided to the workers as drinking water.</li><li>• 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 (<i>such</i></li></ul>	
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		<p><i>as always wearing helmets, using respiratory protective equipment when necessary, protective eyewear, full-body safety harnesses, and foot protection, etc.).</i></p> <ul style="list-style-type: none"><li>• 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.</li><li>• In case of work accidents resulting in lost workdays, accident investigations will be conducted and reported.</li><li>• Workers who will 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.</li><li>• 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.</li><li>• 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.</li><li>• 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.</li></ul>	
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		<ul style="list-style-type: none"><li>• Prior to 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.</li><li>• 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.</li><li>• Planning for material procurement, shipping processes, and storage areas will be ensured.</li><li>• 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.</li><li>• Procedures for working with hazardous chemicals and the creation of storage areas for materials will be established. Chemical substances will be brought to the site after checking their safety data sheets.</li><li>• Workers without vocational competency certificates will not be employed.</li><li>• All employees will start work only after completing basic OHS training and orientation. Training will be updated as required by regulations.</li><li>• 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.</li><li>• 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</li></ul>	
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		<p>authorized employees, and they will receive training before entering the site.</p> <ul style="list-style-type: none"><li>• A construction method and risk assessment will be conducted for every activity to be carried out in the field.</li><li>• An work permit system will be established for hazardous activities such as night work, working at heights, excavation work, welding work, etc.</li><li>• 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.</li><li>• A discipline enforcement system for OHS non-compliance in the field will be established, and all employees will receive training on this matter.</li><li>• 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.</li><li>• 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.</li><li>• 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.</li><li>• 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.</li></ul>	
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		<ul style="list-style-type: none"><li>• An organizational chart outlining roles, responsibilities, and contact information for OHS will be created under the OHS heading.</li><li>• In case of changes to public building entrances during construction, appropriate structures for disabled users will be provided.</li><li>• 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.</li><li>• Records of all activities and incidents (<i>meetings, inspections, supervision, training, accidents, fires, etc.</i>) conducted during the construction phases will be kept.</li><li>• In accordance with the SREEPB Project Labor Management Procedure and covering all contractors and subcontractors:</li><li>• In compliance with the specific Labor Management Procedure for the project, a written and signed social policy/commitment statement will be created, stating that the contractor will not engage in forced or compulsory labor, employ child labor or uninsured workers, discriminate among workers (<i>age, gender, religion, language, race, etc.</i>), use force, mistreat, bully, insult, or demean workers. This document will also emphasize the need for all contractor employees to pay attention to these matters in their relationships and communications with each other.</li><li>• Measures will be taken to prevent the spread of infectious diseases (<i>including sexually transmitted diseases and infections such as HIV</i>) and non-infectious diseases resulting from the performance of construction works. In this context, especially considering that vulnerable and fragile community groups are at different levels of risk, preventive and mitigating measures will be taken. Measures will be implemented to prevent the transmission of infectious diseases and reduce their impact, which may arise from temporary or permanent labor mobility related to the contract.</li></ul>	
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<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b>b) OHS</b> 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</p>	<ul style="list-style-type: none"> <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>• The cleaning schedule of the building will be supplemented to remove the extra dust and dirt generated by the demolition work; Dangerous materials will be handled in accordance with safety guidelines for storage, transportation, and distribution to minimize misuse, leaks, and accidental exposure.</li> <li>• Old windows and doors will be temporarily stored in a secure location designed to prevent unauthorized access.</li> <li>• Regular maintenance will be conducted on vehicles to minimize the risk of accidents due to equipment failure or early breakdowns.</li> <li>• Both training sessions and incidents (such as fatalities, lost-time accidents, leaks, fires, etc.) will be documented.</li> <li>• 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.</li> </ul>	<p>Contractor</p>
	<p><b>c) Safety</b></p>	<ul style="list-style-type: none"> <li>• The contractor will be responsible for the safety of all personnel and individuals within the construction site from the moment construction work commences.</li> <li>• 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.</li> <li>• During the works, the safety regulations of the Ministry of Labor and Social Security of the Republic of Türkiye and the rules of the</li> </ul>	<p>Contractor</p>

		<p>Ministry of Health will be taken into consideration. The relevant regulations will be used as a general reference during the construction.</p> <ul style="list-style-type: none"> <li>• 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 capable of taking all necessary measures to prevent accidents. The Contractor will establish a dedicated team for this purpose.</li> <li>• 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.</li> <li>• 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.</li> <li>• The scrap parts of machinery, equipment, and systems that have been replaced will be delivered to the building management without causing any damage.</li> <li>• These machine, 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.</li> </ul>	
<p>Renovation and Retrofitting Works for Seismic Resilience and</p>	<p><b>d) Waste Management</b> Various waste streams and improper waste</p>	<p><b><u>General Information</u></b></p> <ul style="list-style-type: none"> <li>• The PIU and the consultant will monitor the implementation of environmental and social impact mitigation measures as specified in</li> </ul>	<p>PIU Consultant</p>

<p>Energy Efficiency Improvement in Public Buildings</p>	<p>management may lead to potential adverse environmental and health effects (improper waste management can result in direct and indirect pollution of water and soil and can affect air quality).</p>	<p>the Environmental and Social Management Plan through site inspections.</p> <ul style="list-style-type: none"> <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's ESF.</li> </ul>	
		<ul style="list-style-type: none"> <li>The Waste Management Plan will be prepared by the consultant as specified in Annex 9 of the Environmental and Social Management Framework.</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> <li>Appropriate waste storage areas will be arranged for unused and/or end-of-life solar panels.</li> <li>Daily visual site inspections will be conducted by the consultant to monitor the implementation of mitigation measures.</li> </ul>	<p>Consultant</p>
		<ul style="list-style-type: none"> <li>During construction activities, all types of waste will be separated at the source and transported to temporary waste storage areas selected in accordance with project and legal requirements, as informed by the beneficiary institution. (The temporary storage period is limited to 6 months.)</li> <li>The temporary storage areas will be designated by the contractor in consultation with the University Administration, and the consultant will be informed of these areas.</li> <li>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 their own waste.</li> <li>The contractor will, if possible, reuse and recycle appropriate and feasible materials (except asbestos).</li> </ul>	<p>Contractor</p>



		<ul style="list-style-type: none"><li>• Documentation related to waste disposal and recycling will be regularly maintained. An Waste Record Information Form will be prepared for the purpose of keeping these records.</li><li>• Hazardous wastes will be sent to licensed disposal facilities using the Integrated Environmental Information System through the online waste management application of the Ministry of Environment, Urbanization and Climate Change.</li><li>• During construction activities, when vehicle tires need to be replaced, old tires will be disposed of through businesses engaged in tire distribution and sales, as well as licensed transport vehicles.</li></ul> <p><b><u>Excavation, and Drilling Wastes:</u></b></p> <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul> <p><b><u>Waste Batteries and Accumulators:</u></b></p> <ul style="list-style-type: none"><li>• Waste batteries and accumulators will be transported to authorized disposal facilities for waste batteries and accumulators within the municipal boundaries through authorized transportation companies.</li></ul> <p><b><u>Hazardous Wastes:</u></b></p> <ul style="list-style-type: none"><li>• If hazardous waste is temporarily stored on the project site, it will be kept in secure, leak-proof, safe containers that comply with internationally accepted standards. These containers will be labeled as hazardous waste, and information such as the waste code, quantity, content, characteristics, storage conditions, and storage date of the</li></ul>	
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		<p>stored substance will be indicated on the containers. Hazardous substances can be temporarily stored for a maximum of 6 months. (Temporary storage areas will be determined by the contractor in accordance with the regulations and will be reported to the University Administration after obtaining permission.)</p> <ul style="list-style-type: none"><li>• Containers storing hazardous materials and waste oils will be placed in impermeable concrete areas to prevent spillage and leakage into the soil.</li><li>• Harmful substances such as paints with toxic content, solvent, or lead-based chemicals will not be used.</li><li>• The management of hazardous waste will be carried out in accordance with the Waste Management Regulation.</li><li>• 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.</li><li>• 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.</li><li>• In the event of medium and large-scale environmental accidents, an accident investigation will be conducted and reported.</li><li>• 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.</li></ul> <p><b><u>Domestic Waste:</u></b></p> <ul style="list-style-type: none"><li>• 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.</li></ul>	
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		<ul style="list-style-type: none"> <li>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.</li> </ul> <p><b><u>Asbestos:</u></b></p> <ul style="list-style-type: none"> <li>If asbestos is present on the project site, it will be clearly marked as a hazardous material.</li> <li>In the case of asbestos being present on the project site, it will be properly stored and sealed to minimize its impact.</li> <li>When asbestos removal is necessary, a wetting agent will be used to keep asbestos dust to a minimum before the removal.</li> <li>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 in accordance with the content in question.</li> <li>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 site.</li> <li>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.</li> <li>Paints containing toxic components, solvents, or lead-based paints will not be used.</li> </ul>	
<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency</p>	<p><b>e) <i>Pollution Prevention</i></b></p>	<ul style="list-style-type: none"> <li>Site-Specific Pollution Prevention Plans, if necessary, will be reviewed and approved by the 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</li> </ul>	<p>PIU Consultant Contractor</p>

Improvement in Public Buildings	Demolition and construction activities can lead to pollution on construction sites	<p>compliance with national laws and regulations as well as the requirements of the World Bank ESF.</p> <ul style="list-style-type: none"> <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> <li>• Containers for partially used chemical materials will have lids and will be tightly closed when not in use.</li> <li>• 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.</li> <li>• In case of any hazardous substance or hazardous waste leakage, leakage prevention methods will be applied to limit the exposure area.</li> <li>• Leak kits will be placed at appropriate points on construction sites.</li> <li>• In the event of any leakage, workers who will respond to such incidents will be identified and trained in emergency response to leaks.</li> <li>• Training records will be maintained at construction sites.</li> </ul>	Contractor
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<p>Renovation and Strengthening Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><i>f) Noise</i> The presence of workers on the construction site, renovation/construction activities, and the movement of transportation vehicles will increase noise and vibration levels.</p>	<ul style="list-style-type: none"> <li>• 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 ESHP requirements.</li> <li>• Noise during demolition and construction will be limited to specified periods as determined in the permit.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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 1-hour period to prevent hearing impairment. Additionally, the World Bank Environmental, Health, and Safety Guidelines Table 1.7.1 stipulate 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 (<a href="https://www.ifc.org/content/dam/ifc/doc/2023/ifc-general-ehs-guidelines.pdf">https://www.ifc.org/content/dam/ifc/doc/2023/ifc-general-ehs-guidelines.pdf</a>). This will be taken into account during site inspections.</li> <li>• In case of noise-related grievances, noise levels and possible necessary measures will be determined based on measurements conducted by accredited laboratories.</li> <li>• Site assessments will be conducted according to the Environmental Noise Guidelines for the WHO European Region.</li> </ul>	<p>PIU Consultant</p>
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		<ul style="list-style-type: none"><li>• 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.</li><li>• Measures such as using new model vehicles as much as possible will be taken to minimize noise levels.</li><li>• 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.</li></ul>	
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<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b>g) Air Quality/Emission:</b></p>	<ul style="list-style-type: none"> <li>• Demolition debris will be kept in a controlled area, and water will be sprayed to reduce dust from the debris. (Water will be provided from the campus infrastructure. In case of prolonged water interruptions, water tankers may be used for supply.)</li> <li>• During demolition activities, measures to prevent air quality issues will be outlined in a Demolition and Construction Environmental Method Statement, prepared by the contractors and approved by the PIU.</li> <li>• Dust generated during pneumatic excavation will be suppressed by continuous water spraying and/or the installation of dust curtain enclosures at the construction site.</li> <li>• In case of rubble waste generation, a rubble 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>	<p>Consultant Contractor</p>
<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency</p>	<p><b>h) Water Quality</b> Uncontrolled disposal of wastewater/waste generated at the</p>	<ul style="list-style-type: none"> <li>• Suitable erosion and sediment control measures such as straw bales and/or silt fences will be implemented at the construction site to prevent sediments from leaving the site and causing turbidity in the sea.</li> <li>• Efforts will be made to minimize the storage or disposal of waste generated on the construction site.</li> </ul>	<p>Consultant Contractor</p>

<p>Improvement in Public Buildings</p>	<p>construction site can affect the coastline.</p> <p><b>i) Soil Quality</b> The mixing of hazardous substances and waste into the soil</p>	<ul style="list-style-type: none"> <li>• Construction vehicles and machinery will be washed only in areas where runoff will not pollute natural surface water masses.</li> <li>• The waste management mentioned in previous sections should be carried out in a disciplined manner.</li> </ul> <hr/> <ul style="list-style-type: none"> <li>• All hazardous chemicals, including contaminated waste, will be stored in temporary storage areas that meet impermeability requirements.</li> <li>• Before the use of chemicals, MGBFs must be inspected by OHS specialists and occupational health physicians, and users must 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 workers will undergo leak and spill training. These training sessions will be reinforced with practical exercises. At least one leakage spill kit will be provided for each building and each mobile machine.</li> </ul>	
<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b>j) Required Resources</b></p>	<ul style="list-style-type: none"> <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> </ul>	<p>Contractor</p>



		<ul style="list-style-type: none"> <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 construction activities, including generators, will be kept on the construction sites.</li> </ul>	
		<ul style="list-style-type: none"> <li>• 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.</li> </ul>	<p>PIU Consultant</p>
<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b><i>Community Health and Safety/Traffic and Pedestrian Safety</i></b></p>	<ul style="list-style-type: none"> <li>• Regular on-site inspections will be conducted by the PIU (Project Implementation Unit) 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.</li> <li>• The PIU will review and approve the site-specific Community Safety and Traffic Management Plan prepared in accordance with the Occupational Health and Safety Plan.</li> </ul>	<p>Consultant Contractor</p>

		<ul style="list-style-type: none"> <li>• The Contractor will develop a Traffic Action Plan (Figure 13), taking into account the needs of people with disabilities, as prepared by the Consultant.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <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> <li>• Trained and visible personnel will actively manage traffic on the construction site to</li> </ul>	
		<ul style="list-style-type: none"> <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 adhere to the specified speed limit.</li> </ul>	<p>Consultant Contractor</p>

		<ul style="list-style-type: none"><li>• The perimeter and vicinity of the project site will be organized with traffic signs and warning signs (as specified in the Traffic Action Plan).</li><li>• Visibility of the project site will be ensured.</li><li>• Pedestrian paths and vehicle thoroughfares within the site will be separated from each other. These paths will be incorporated into the traffic plan.</li><li>• Local community, building visitors, and users will be informed about potential hazards and risks through warning signs and informational meetings.</li><li>• 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).</li><li>• Pedestrian paths and vehicle thoroughfares within the site will be separated from each other. These paths will be incorporated into the traffic plan.</li><li>• 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.</li><li>• The weights of all vehicles used in the project will not exceed the limits specified in the relevant legislation.</li><li>• In the event of hazardous chemical 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.</li><li>• 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.</li></ul>	Consultant Contractor
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		<ul style="list-style-type: none"> <li>All traffic organization will be discussed and planned in coordination with the relevant authorities.</li> </ul>	
Operational phase impacts and risks	<p><b>a) Waste Management</b></p> <p>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).</p>	<p>a. Waste streams will be collected separately, stored, and disposed of through licensed companies in accordance with national regulatory requirements.</p>	Relevant beneficiary institution
Operational phase impacts and risks	<p><b>b) OHS risks</b></p> <p>Maintenance and repair activities related to the proper functioning of the building can pose occupational health and safety (OHS) risks for workers.</p>	<p>a. Relevant OHS risks will be reduced through the provisions specified in national legislation.</p> <p>b. 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.).</p> <p>c. Keeping records related to the Main Design Project and relevant project documents for easy maintenance and renovation of any part of the building.</p>	Relevant beneficiary institution
	<p><b>Stakeholder Feedback (Suggestion, Grievance, Opinion)</b></p>	<ul style="list-style-type: none"> <li>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</li> </ul>	<p>PIU</p> <p>Consultant</p> <p>Contractor</p>

<p>Throughout the project lifecycle</p>		<p>the administration. Grievances will be closed using the Grievance Closure Form provided in Annex V.</p> <ul style="list-style-type: none"> <li>• The site supervisor of the Contractor will be provided with training on the operation of the Grievances Mechanism by the Social Specialist of the Consultant firm.</li> <li>• Corrective actions will be taken within 15 working 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• The Contractor will follow the GM Procedure of the SREEPB Project in all activities related to GM.</li> <li>• All personnel working within the SREEPB Project (PIU, Consultant Firm, Contractors) can report their grievances/views/suggestions to the Administration and/or the World Bank following the process in GM outlined in the Labour Management Procedure for SREEPB Project.</li> <li>• 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).</li> </ul>	
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		<ul style="list-style-type: none"><li>• The principles for receiving feedback are explained under the "4. Stakeholder Engagement and Grievance Mechanisms" title of this document.</li></ul>	
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## 6. Environmental and Social Monitoring Plan

Table 7: ENVIRONMENTAL AND SOCIAL MONITORING PLAN

<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
<b>Renovation and Strengthening Works Site Preparation Activities</b>					
Community Health and Safety Management and Implemented Protective Measures	Around the project site	Visual Inspections Site Inspection	At the beginning of the renovation/reinforcement works (first day) Every working day throughout the project activities	To minimize health and safety risks and mechanical injuries to local communities	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>

<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
Occupational Health and Safety (OHS) protection measures for construction site workers	Project site and buildings near the project site	Visual Inspections Site Inspection	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 style="list-style-type: none"> <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/strengthening work and continuously every working day	Preventing Post Activation Potential (PAP) injury due to inhalation of asbestos fibers or other construction dust.	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>
The start and completion time of Renewal/Strengthening 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 style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> <li>• Asbestos Removal Specialist</li> </ul>



<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
<b>Renovation and Strengthening Construction Works</b>					
Occupational Health and Safety (OHS) Protection Measures for Site Workers ( <i>Working at Heights, Working with Hazardous Materials, Working with Rotating Equipment, Working with Electrical Devices, etc.</i> )	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 style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>

<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
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 style="list-style-type: none"> <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 style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>
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	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>

<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
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 style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>
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 style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>

<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
Domestic Wastes	Project site	Waste Records Site Inspection	Throughout the project lifecycle/Daily	<ul style="list-style-type: none"> <li>Regulation on Control of Packaging Wastes</li> <li>Waste Management Regulation</li> </ul>	<ul style="list-style-type: none"> <li>Contractor</li> </ul>
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 style="list-style-type: none"> <li>Contractor</li> <li>Consultant</li> </ul>
Identifying asbestos-containing waste, packaging it properly, labeling it as hazardous waste	At project construction sites Before starting removal/dismantling 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	<ul style="list-style-type: none"> <li>Regulation on Health and Safety Measures in Working with Asbestos</li> </ul>	<ul style="list-style-type: none"> <li>Consultant</li> </ul>
Proper temporary storage, packaging and labeling of the extracted waste	Project site	Waste Records Site Inspection Visual Inspections	Throughout the project lifecycle/Daily	<p>To minimize injuries, To prevent environmental pollution, Ensuring that inventory is kept properly.</p> <ul style="list-style-type: none"> <li>Waste Management Regulation</li> </ul>	<ul style="list-style-type: none"> <li>Contractor</li> <li>Consultant</li> </ul>

<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
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 style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>
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 style="list-style-type: none"> <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	Daily	Protecting construction workers, their beneficiaries' employees, and local communities from injuries and deaths related to traffic accidents.	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>

<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
Stakeholder engagement	Uçaksavar Kampüsü	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 style="list-style-type: none"><li>• PIU</li><li>• Contractor</li><li>• Consultant</li></ul>

<p>Grievance Mechanism</p>	<p>Project site  Buildings near the project site</p>	<p>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)  Physical condition of suggestion and grievance boxes  Suggestion, condition of</p>	<p>Weekly (During the life of the project)</p>	<ul style="list-style-type: none"> <li>• Environmental Social Management Plan (ESMP)</li> <li>• Grievance Mechanism (GM)</li> <li>• Stakeholder Engagement Framework (SEF)</li> </ul> <p>Stakeholders who are directly or indirectly affected by the project can bring forward their grievances/opinions/suggestions regarding project activities, contribute to the project and benefit from the project at the highest level.</p>	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> <li>• PIU</li> </ul>
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<b>What</b> <i>parameters will be monitored?</i>	<b>Where</b> <i>parameters will be monitored?</i>	<b>How</b> <i>parameters will be monitored?</i>	<b>When</b> <i>parameters will be monitored (measurement frequency)?</i>	<b>Why</b> <i>parameters will be monitored?</i>	<b>Responsibility</b>
		grievance boxes locking mechanisms			
<b>Renovation/Retrofitting Works Operation Process</b>					
Waste streams	Renovated/Retrofitted buildings	Implementation of waste management requirements on site	Regularly (throughout the project lifecycle)	Ensuring proper collection and disposal of waste in accordance with national legal requirements	Bogazici University
Health and Safety	Renovated/Retrofitted 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	Bogazici University



## 7. Duties and Responsibilities

Table 8: TASK DISTRIBUTION LIST

<b>RESPONSIBLE PARTY</b>	<b>RESPONSIBILITY</b>
MoEUCC /PIU	<ul style="list-style-type: none"> <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) expert.</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>• Employment of a suitable expert for the Environmental and Social Monitoring Program.</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 style="list-style-type: none"> <li>• Conducting a preliminary site assessment before the project starts,</li> <li>• Preparation of the project-specific ESMP and OHS Plan,</li> <li>• Monitoring and evaluating the activities defined as the contractor's responsibility 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>• Preparation of the Traffic Management Plan,</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, <i>Stakeholder Engagement and Information Activities, Code of Conduct, Grievance Mechanism, Gender-Based Violence/Sexual Exploitation/Sexual Abuse/Sexual Harassment,</i></li> </ul>

	<i>Lockout-Tagout Training (LOTO), Work Permit System Training, Conservation of Cultural Assets).</i>
CONTRACTOR	<ul style="list-style-type: none"><li>• Employing at least one full-time Environmental and OHS expert.</li><li>• Appointing an experienced Environmental and OHS Officer for the comprehensive management and monitoring of the site-specific ESMP and OHS Plan.</li><li>• Implementing laws, regulations, and rules related to ESMP and OHS Plan attached to the tender documents as defined by the Consultant.</li><li>• Implementing relevant laws and regulations mentioned in the tender documents in an appropriate manner.</li><li>• Updating ESMP and OHS Plan content in coordination with the Consultant during the implementation of ESMPs and OHS Plan in the field as necessary.</li><li>• 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.),</li><li>• Operating the Grievance Mechanism in compliance with GM Procedure established by the Ministry.</li><li>• Preparing sub-management plans related to ESMP if necessary (such as Waste Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Health and Safety Plan, Labor Management Plan, etc.) and site-specific construction/application methods.</li><li>• Preparing the Random Finding Procedure if deemed necessary.</li><li>• Preparing ESMP progress reports for MoEUCC.'s review.</li><li>• Applying to the authorized energy distribution company and local gas distribution company depending on the works to be carried out.</li><li>• Establishing the Employee Grievance Mechanism detailed in the Labor Management Procedure before any construction work starts and ensuring its transparent operation.</li><li>• Preparing the Labour Management Plan specific to the project considering SREEPB Labor Management Plan (LMP)<sup>7</sup>.</li></ul>

<sup>7</sup> [https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894\\_iscucuyonetimprosedurleri-nihai\\_tr\\_20210527081102.pdf](https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894_iscucuyonetimprosedurleri-nihai_tr_20210527081102.pdf)

## 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 (<https://kamuguclendirme.csb.gov.tr>). A summary of this information is provided in Table 9.

Table 9: REPORTING PROCESS REQUIREMENT LIST

<b>RESPONSIBLE PARTY</b>	<b>REPORTING PROCESS REQUIREMENT</b>
MoEUCC /PIU	<ul style="list-style-type: none"><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 style="list-style-type: none"><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></ul>
CONTRACTOR	<ul style="list-style-type: none"><li>• Monthly preparation of ÇSYP progress reports and submission for approval by the Consultant.</li><li>• Weekly preparation of SM reports and submission to the Project Manager of 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: Solid Models of Buildings Considered within the Scope of the Project

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SUPERDORM (Student Dormitory)

## 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-1/Table 1: WORLD BANK ENVIRONMENTAL SOCIAL STANDARDS SUMMARY

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS1	Assessment and Management of Environmental and Social Risks and Impacts	<p>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.</p> <p>Environmental and social assessments will be conducted based on current information/data to define and describe the project and all related aspects, identify the nature of risks, impacts, and characteristics of mitigation measures.</p> <p>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.</p> <p>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.</p>

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS2	Labor and Working Conditions	<p>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.</p>

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS3	Resource Efficiency and Pollution Prevention and Management	<p>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.</p>
ESS4	Community Health and Safety	<p>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.</p> <p>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.</p>
ESS5	<p>Land Acquisition, Restrictions on Land Use, and Involuntary Resettlement <b>(This ESS is not applicable to the SREEPB Project)</b></p>	<p>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.</p>

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS6	Biodiversity Conservation and Sustainable Management of Living Natural Resources <b>(This ESS is not applicable to the SREEPB Project)</b>	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 <b>(This ESS is not applicable to the SREEPB Project)</b>	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 <b>(This ESS does not apply for the SREEPB Project)</b>	Financial intermediaries will establish and maintain an ESMS to identify, assess, manage, and continuously monitor the environmental and social risks and impacts of sub-projects.




ESS	SUBJECT	SUMMARY REQUIREMENT
ESS10	Stakeholder Participation and Information Disclosure	<p>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 most effective and an 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.</p>

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

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

**Şikayet / Öneri Formu**

 TÜRKİYE CUMHURİYETİ  
ÇEVRE, ŞEHİRCİLİK VE  
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI

**KAMU BİNALARINDA DEPREM DAYANIMI ve ENERJİ  
VERİMLİLİĞİ PROJESİ (KADEV)**


ŞİKAYET / ÖNERİ FORMU

T.C Kimlik Numaranız	
Adınız	
Soyadınız	
İl *	Seçiniz
Bina Adı *	
Şikayetiniz *	
Varsa Engel Durumunuz	Seçiniz
Geri Dönüş Tercihiniz	Seçiniz
E-posta	
Telefon	

**Kaydet**

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

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

 <b>REPUBLIC OF TURKEY MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE</b>	<b>SEISMIC RESILIENCE AND ENERGY EFFICIENCY IN PUBLIC BUILDINGS PROJECT (SREEPB PROJECT)</b>
	<b>GRIEVANCE / SUGGESTION FORM</b>
	<b>BOGAZICI UNIVERSITY</b>
ID Number	
Name	
Surname	
Province	İstanbul
Choose the building:	<input type="checkbox"/> Indoor Swimming Pool <input type="checkbox"/> New Geophysics Building <input type="checkbox"/> Indoor Sports Hall <input type="checkbox"/> Superdorm (Car park) <input type="checkbox"/> 1st Student Dormitory <input type="checkbox"/> SFL Block A <input type="checkbox"/> SFL Block B <input type="checkbox"/> Social Facility & Dormitory
Your grievance	
Your disability, if any:	<input type="checkbox"/> Blind <input type="checkbox"/> Deaf <input type="checkbox"/> Physically disabled <input type="checkbox"/> Other <input type="checkbox"/> None
For return:	<input type="checkbox"/> E-mail <input type="checkbox"/> Phone <input type="checkbox"/> 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?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>Corrective Action and Decision Control</b>	
Stage of corrective action	Term and Responsible Institution
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

### COMPENSATION AND FINAL RATINGS

This section will be filled out and signed by the complainant after receiving the compensation fees and resolving the grievance.

Notes:

History:

Complainant:




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

Project Code	WB/CS-DESSUP-01	Building Name	BOĞAZIÇI UNIVERSITY NORTH CAMPUS
Date	9.03.2023	Start   End Time	14 : 00   15 : 00

START TIME	END TIME	ACTIVITY
14 : 00	14 : 10	Meeting kick-off speech (Moderator Birsen Bakır)
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 style="list-style-type: none"><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	<p>Information was given about the SREEPB Project and its objectives.</p> <p>Image 1 PRESENTATION FILE SHARED SECTIONS_01</p>  <p>The slide features a central graphic with a red circular logo containing a building and the text 'KADEV KAMU BINALARINDA DEPREM DAYANIMI &amp; ENERJİ VERİMLİLİĞİ PROJESİ'. To the right, there is text in Turkish: 'KAMU BINALARINDA DEPREM DAYANIMI &amp; ENERJİ VERİMLİLİĞİ PROJESİ', 'Finansmanı Dünya Bankası tarafından sağlanmakta, Hazine &amp; Maliye Bakanlığı, Garanti Fonu, Çevre, Şehircilik ve İklim Değişikliği Bakanlığı tarafından yürütülmektedir.', and a URL 'https://kamugulendirme.csb.gov.tr'. Below the graphic, there is a section titled 'PROJE HEDEFLERİ' (Project Objectives) with a list of goals and a target icon.</p> <p><b>PROJE HEDEFLERİ</b> Bu proje, kamu binalarında, afet direncini maksimum seviyeye çıkarma ve enerji tasarrufunu iyileştirmeye odaklanmıştır. Bu çerçevede binalar:</p> <ul style="list-style-type: none"><li>• Yapısal olarak güçlendirilmesi,</li><li>• Enerji performanslarının artırılması,</li><li>• Yürünme, yönetilebilir &amp; sürdürülebilir enerji üretimi,</li><li>• Enerji yönetim sisteminin teknik alt yapı ile birlikte (Bina enerji takip ve kontrol sistemi, bina otomasyon sistemi vb.) kurulması ve etkinliğinin sağlanması,</li><li>• Proje kapsamında, paydaşlar seviyesinde farkındalık sağlanması,</li></ul> <p>hedeflenmiştir.</p>
14 : 20	14 : 24	<ul style="list-style-type: none"><li>▪ The general stages of the SREEPB Project have been explained. Information was given about the plans and their contents to be prepared together with the project and tender documents.</li><li>▪ <b>Environmental and Social Management Plan;</b> It has been explained that it will determine the environmental and social impacts of the project and include the risks and the actions to be taken to eliminate the risks.</li><li>▪ <b>Occupational Health &amp; Safety Plan</b> It has been stated that the occupational health and safety risks related to the manufacturing stages will be determined and the measures to be taken for their elimination will be defined.</li><li>▪ <b>Stakeholder Engagement Plan</b> was explained as the documents that will describe the stakeholders who will be directly or indirectly affected by the project and how much information these</li></ul>

stakeholders will be informed about the project and project processes, and how feedbacks (suggestions, grievances , etc.) will be collected, examined and answered.

- The importance of stakeholder engagement was mentioned. It was stated that the details of the communication will be announced at the end of the presentation.

Image 2 PRESENTATION FILE SHARED SECTIONS \_02



14 : 24

14 : 31

- 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.
- It was stated what stakeholders and employees should do for occupational health and safety.
- It has been explained that the professional competence of the employees will be questioned.
- Possible environmental effects related to soil survey, precautions to be taken and considered in this regard were stated.







### İŞ SAĞLIĞI GÜVENLİĞİ - ÇALIŞANLAR

Acil durumlarda çalışanların toplanacağı bölgeler, deprem riski de dikkate alınarak belirlenmiş ve vaziyet planlarında gösterilmiştir.



### MESLEKİ YETERLİLİK

Sondaj çalışmalarını yetkili **Sondajlar** tarafından gerçekleştirilecektir.

- Sondaj sondaj makine ve ekipmanlarını kullanarak yer altı ve yer üstünün değişik katmanlarında sondaj kılavuz hattında sondaj kuyusu açma ve numune alma gibi işlemleri yapar kimsedir.

Sondaj makinesi taşımada kullanılan kamyonlar; **C sınıfı ehliyet** sahibi şahıslar tarafından kullanılacaktır.



### ÇEVRESEL ETKİLER

Zemin etütüne ilişkin olası çevresel etkiler ve alınması gereken önlemler bütün çalışanlara aktarılmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:



- Sondaj işlemi sırasında gürültü en alt düzeyde tutulmalıdır. Gürültü seviyeleri ölçümlenmelidir. Bu nedenle gerekli önlemler alınmalıdır. Gürültü seviyeleri ölçümlenmelidir.
- Sondaj malzemesi, kamyonu maza ve yağ ikmali sırasında toprakla teması, suyun toprak altına sızması ve yağ ile toprak teması önlenmelidir. Bu durumda uygun koruyucu ekipmanlar kullanılmalıdır.
- Sondaj suyunun kontrolüyle yayılımını engellemesi için sondaj noktasında uygun koruyucu ekipmanlar kullanılmalıdır. Bu durumda uygun koruyucu ekipmanlar kullanılmalıdır.
- Sondaj çalışmalarında araziye çöken atıklar ve çöplerin toplanması, ayrıştırılması ve depolanması sağlanmalıdır. Çöplerin ayrıştırılması ve depolanması sağlanmalıdır. Çöplerin ayrıştırılması ve depolanması sağlanmalıdır.



### SOSYAL ETKİLER

Zemin etütüne ilişkin olası sosyal etkiler ve alınması gereken önlemler bütün çalışanlara bildirilmiştir. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

- Sondaj çalışmalarında **kişilerin güvenliği** en önemli öncelik olacaktır.
- Sondaj çalışmalarında **kişilerin güvenliği** en önemli öncelik olacaktır. Kişilerin güvenliği en önemli öncelik olacaktır.
- Sondaj çalışmalarında **kişilerin güvenliği** en önemli öncelik olacaktır. Kişilerin güvenliği en önemli öncelik olacaktır.
- Sondaj çalışmalarında **kişilerin güvenliği** en önemli öncelik olacaktır. Kişilerin güvenliği en önemli öncelik olacaktır.
- Sondaj çalışmalarında **kişilerin güvenliği** en önemli öncelik olacaktır. Kişilerin güvenliği en önemli öncelik olacaktır.
- Sondaj çalışmalarında **kişilerin güvenliği** en önemli öncelik olacaktır. Kişilerin güvenliği en önemli öncelik olacaktır.



Detailed information was given about building structural support, destructive and nondestructive testing, and the process was explained. Information was given about sample detection and observations.

### Image 4 PRESENTATION FILE SHARED SECTIONS\_04



### YAPISAL FİZİBİLİTE

#### BİNA TAŞIYICI YAPISI, TAHRİBATLI / TAHRİBATSIZ MUAYENE

- Bina zemininde araştırma çukurları açılarak **temel gözetimi** yapılacaktır.
- Donan boyutları ve konumları incelenecek, **projeler ile karşılaştırılacaktır.**
- Toplama yapı elemanlarından, uygun boyutlarda **numuneler alınacak** ve akradite laboratuvarlarında deneyim gerçekleştirilecektir.
- Yarıda yapılan gözetimler ve laboratuvar testi sonuçları raporlanacaktır.

NO	KOD	TAŞIYICI	YAPISAL	YAPISAL	YAPISAL	YAPISAL	YAPISAL	YAPISAL	YAPISAL		YAPISAL
									YAPISAL	YAPISAL	
1	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
2	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
3	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
4	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
5	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
6	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
7	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000
8	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
9	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000
10	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
<b>TOPLAM</b>											
25 291 411 1108 27											















		 <p><b>YAPISAL FIZIBILITE</b> <b>BINA TAŞIYICI YAPISI TAHRİBATLI / TAHRİBATSIZ MUAYENE</b> Bina zemini/temel kontrolü için, temel kalınlığının bir miktar altına inilecek, denetlinde yaklaşık (0,5m<sup>2</sup> yüzey alanı) araştırma çukuru açılır. Açılan çukur görsel olarak kontrol edilerek, temel tipi, yapısı, bileyenleri kontrol edilir ve projeler ile kıyaslanır. Açılan çukur ve gözlemleri gösteren mahiyette resimler çekilir. Araştırma sonrasında çukur uygun biçimde kapatılır.</p>    
14 : 31	14 : 35	<ul style="list-style-type: none"><li>▪ A statement was made about the destructive and nondestructive testing to be done after the soil survey.</li><li>▪ Information was given about the reinforcement and stirrups.</li><li>▪ Explained how to take samples.</li></ul> <p>Image 5 PRESENTATION FILE SHARED SECTIONS_05</p>  <p><b>YAPISAL FIZIBILITE</b> <b>BINA TAŞIYICI YAPISI TAHRİBATLI / TAHRİBATSIZ MUAYENE</b> Doranlı ve etriye nedir? • <b>Doranlı:</b> Beton içerisindeki çelik çubuklardır. (Beton basınca karşı çok iyi çalışan bir malzeme olmasına rağmen, çekme dayanımı çok düşüktür. Çekme bölgesindeki genişlemeyi karşılamak üzere, bu bölgeye çelik çubuklar yerleştirilir.) • <b>Etriye:</b> Kükür, kırılgan taşıyıcı sistem elemanlarını; boyuna doranlıları saran, inşaat çalışmaları bakiyesiyle elde edilen bir sarı doranlıdır.</p>    
14 : 35	14 : 38	<ul style="list-style-type: none"><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>  <p><b>YAPISAL FIZIBILITE</b> <b>BINA TAŞIYICI YAPISI TAHRİBATLI / TAHRİBATSIZ MUAYENE</b> Numunelerin çıkarılması: • <b>Doranlı kontrolü:</b> En belirlenen yüzeyler üzerinde; boyu, ölçü, sava ve beton katmanları, kırıma marifeti ile kaldırılır. Bu süreçte kontrol edilecek elemanlar ortaya çıkarılır. • Çukurlan doranlı (<b>etriye ve boyuna doranlı</b>) üzerindeki beton kalımları ve pas, uygun boyutta mercaz fırçalar kullanılarak temizlenir. • Doranlı çukurlar tespit edilir, dayanım testi için numune fiziksel olarak; sprisi tay marifeti ile demir çubuklar kesilir.</p> 

Image 6 PRESENTATION FILE SHARED SECTIONS\_06



**YAPISAL FIZIBILITE**

**BINA TAŞIYICI YAPISI TAHRİBATLI / TAHRİBATSIZ MUAYENE**

Doğru numuneler, alırdite laboratuvarlarda geirme dayanım testlerine tabi tutulur, kopma kuvvetleri belirlenir ve raporlanır.



**YAPISAL FIZIBILITE**

**BINA TAŞIYICI YAPISI TAHRİBATLI / TAHRİBATSIZ MUAYENE**

Numunelerin çıkarılması;

Toprak beton kontrolü için kollarından 10cm çapında 10cm derinliğinde, silindirik numunelerin çıkarılması:

- Kesil makinesi, numune alınacak noktaya hassas olarak uygun çapta elbise / vida kullanılarak sabit lenir.
- Kesil makinesi, çalğınır. Makine uygun derinde dönerik ve işleni yapılan noktaya uygun miktarda su alınarak dikkatle işlenir kesilir.
- 100-150mm derinliğe ulaşıldığında elbise altına yerinden kesim ucu getiir ve elbise kapalı koruma yapılır.
- Kesil makinesi yerinden çıkarılır. Dolgu boşluğuna uygun boyküllite mung ve pekiş kullanılarak numune boşluğuna vurularak, numunenin boğartı yüzünden kopması sağlanır. Sebest kalan numune yerinden çıkarılır.

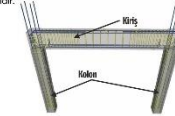


**YAPISAL FIZIBILITE**

**BINA TAŞIYICI YAPISI TAHRİBATLI / TAHRİBATSIZ MUAYENE**

Kolon, kiriş nedir?

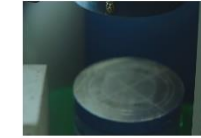
- **Kolon:** Sütun olarak da bilinen, taşıyıcı sistemde dikey yapı elemanlarına verilen isimdir. Yapıda diğ ve iğ etkilerden oluşan kuvvetleri (moment, kesme kuvveti vb.) temellere, dolayısıyla zemine aktarırlar.
- **Kiriş:** Yapılarda döşeme ve kullanım alanı yüklerini dikey taşıyıcılara (kolon) aktaran yapı elemanıdır.



**YAPISAL FIZIBILITE**

**BINA TAŞIYICI YAPISI TAHRİBATLI / TAHRİBATSIZ MUAYENE**

Beton numuneleri, alırdite laboratuvarlarda basma dayanım testlerine tabi tutulur, dayanımlılık seviyesi belirlenir ve raporlanır.






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

		  <b>YAPISAL FIZIBILITE</b> <b>TAHRIBATLI TEST SONRASI ONARIM</b> Proje kapsamında gerçekleştirilen tahribatlı muayenelerin, temin edilen numunelerin; binaya yapısal hasar vermesi söz konusu değildir. * Dişerit numuneler kuvert altında kalmayan filiz uçlarından vb. noktalardan alınmaktadır. * Kolon sıyrması sonucu tahrip olan kesimler ve beton numunesi alınan bölümler yüksek mukavemetli dalgıçlar kullanılarak doldurulacak, onarılacaktır. 
14 : 40	14 : 45	<p>General explanations regarding occupational health and safety plans were made within this framework;</p> <ul style="list-style-type: none"><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> <p>Image 8 PRESENTATION FILE SHARED SECTIONS_08</p>

		<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <h3>İŞ SAĞLIĞI GÜVENLİĞİ</h3> <p>İnşa işi yapıldığı yerlerde, işin ve müessesenin faaliyetleri için en azından, gerektikçiyken, iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır. Proje alanındaki çalışmalar için aşağıdaki önlemler alınmalıdır:</p> <ul style="list-style-type: none"> <li>• İşin başından itibaren işin ve müessesenin faaliyetleri için en azından, gerektikçiyken, iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> </ul> </div> <div style="width: 50%;"> <h3>İŞ SAĞLIĞI GÜVENLİĞİ - ÇALIŞANLAR</h3> <p>Çalışanların iş yerindeki faaliyetleri için en azından, gerektikçiyken, iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır. İş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</p> <ul style="list-style-type: none"> <li>• İşin başından itibaren işin ve müessesenin faaliyetleri için en azından, gerektikçiyken, iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> </ul> </div> <div style="width: 50%;"> <h3>MESLEKİ YETERLİLİK</h3> <ul style="list-style-type: none"> <li>• Çalışanların iş yerindeki faaliyetleri için en azından, gerektikçiyken, iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan iş sağlığı ve güvenliği önlemleri alınmalıdır ve çalışanlara aktarılmalıdır.</li> </ul> </div> <div style="width: 50%;"> <h3>ÇEVRESEL ETKİLER</h3> <p>İnşa işi yapıldığı yerlerde, işin ve müessesenin faaliyetleri için en azından, gerektikçiyken, çevre etkileri alınmalıdır ve çalışanlara aktarılmalıdır. Çevre etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</p> <ul style="list-style-type: none"> <li>• İşin başından itibaren işin ve müessesenin faaliyetleri için en azından, gerektikçiyken, çevre etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan çevre etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan çevre etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan çevre etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan çevre etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> </ul> </div> <div style="width: 50%;"> <h3>SOSYAL ETKİLER</h3> <p>İnşa işi yapıldığı yerlerde, işin ve müessesenin faaliyetleri için en azından, gerektikçiyken, sosyal etkileri alınmalıdır ve çalışanlara aktarılmalıdır. Sosyal etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</p> <ul style="list-style-type: none"> <li>• İşin başından itibaren işin ve müessesenin faaliyetleri için en azından, gerektikçiyken, sosyal etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan sosyal etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan sosyal etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan sosyal etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> <li>• Çalışanların iş yerindeki faaliyetleri için gerekli olan sosyal etkileri alınmalıdır ve çalışanlara aktarılmalıdır.</li> </ul> </div> </div>
<p>14 : 45</p>	<p>14 : 50</p>	<ul style="list-style-type: none"> <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 <b>energy efficiency</b> 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> <p>Image 9 PRESENTATION FILE SHARED SECTIONS_09</p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <h3>Yüksek Enerji Performanslı Yapıların Enerji Verimliliği ve Sistemlerin Testleri</h3> <p>Birçok enerji performansını ciddi şekilde etkileyen yapı ve sistemler aşağıda özetlenmiştir:</p> <ul style="list-style-type: none"> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> </ul> </div> <div style="width: 50%;"> <h3>ENERJİ VERİMLİLİĞİ</h3> <h4>ENERJİ PERFORMANSINI ETKİLEYEN YAPILAR VE SİSTEMLERİN TESTLERİ</h4> <p>Birçok enerji performansını ciddi şekilde etkileyen yapı ve sistemler aşağıda özetlenmiştir:</p> <ul style="list-style-type: none"> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> <li>• Enerji verimliliği, yapıların enerji verimliliği için gereklidir.</li> </ul> </div> </div>



		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>ENERJİ VERİMLİLİĞİ</b> ENERJİ PERFORMANSI ETKİLEYEN YAPILAR VE SİSTEMLERİN TEKNOLOJİLERİ</p> <ul style="list-style-type: none"> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır. Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> </ul> </div> <div style="width: 48%;"> <p><b>ENERJİ VERİMLİLİĞİ</b> ENERJİ PERFORMANSI ETKİLEYEN YAPILAR VE SİSTEMLERİN TEKNOLOJİLERİ</p> <ul style="list-style-type: none"> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> <li>• Enerji verimliliği, enerji tüketimini azaltarak enerji maliyetlerini düşürür, çevreyi korur ve işletmelerin rekabet gücünü artırır.</li> </ul> </div> </div>
<p>14 : 50</p>	<p>14 : 54</p>	<p>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.)</p> <ul style="list-style-type: none"> <li>▪ It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes.</li> <li>▪ It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181.</li> <li>▪ Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods.</li> <li>▪ 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 mechanism.</li> </ul> <p>Image 10 PRESENTATION FILE SHARED SECTIONS_10</p>



		<p><b>ÖNERİ ŞİKAYET SİSTEMİ</b> Öneri ve şikayetleriniz, içeriği ne olursa olsun, nasıl isterseniz bizimle bizim için ayrılmış olduğumuz iletişim kanallarına, e-posta ile, telefonla, yazılı olarak veya sosyal medya kanalları üzerinden bize ulaşabilirsiniz. Öneri ve şikayetleriniz; hangi projemizde olduğunuzu, hangi bölgede olduğunuzu, hangi amaçla yaptığınızı ve hangi sorunu yaşadığınızı belirtmeniz önemlidir. Herhangi bir sorunu bildirdiğinizde, lütfen bir kural ihlalinin varlığını belirtiniz.</p> <p>Bu projeye ilişkin genel bilgi almak, çevremizi ve sosyal yaşamımızı etkileyecek olan projelerin ve faaliyetlerin detaylarını öğrenmek için: <a href="https://www.kasiv.gov.tr/">https://www.kasiv.gov.tr/</a> web sayfasından öneri ve şikayetlerinizi bildirebilirsiniz.</p> <p><b>ÖNERİ ŞİKAYET SİSTEMİ</b> Çevre, İktisadi ve İdari Bütçelü İşleri Bakanlığı (KASIV) ile iletişime geçerek, sorularınızı, önerilerinizi ve şikayetlerinizi bildirebilirsiniz. KASIV, sorularınızı, önerilerinizi ve şikayetlerinizi en kısa sürede yanıtlamaya çalışacaktır. KASIV ile iletişime geçmek için aşağıdaki iletişim bilgilerini kullanabilirsiniz.</p> <p><b>KASIV İletişim Bilgileri</b> Adres: Ankara Telefon: 0312 506 4000 E-posta: <a href="mailto:ogretmen@kasiv.gov.tr">ogretmen@kasiv.gov.tr</a> Web Sayfası: <a href="https://www.kasiv.gov.tr/">https://www.kasiv.gov.tr/</a></p> <p><b>ÖNERİ ŞİKAYET SİSTEMİ</b> İnternet üzerinden şikayet formunu doldurarak, öneri ve şikayetlerinizi bildirebilirsiniz. KASIV, sorularınızı, önerilerinizi ve şikayetlerinizi en kısa sürede yanıtlamaya çalışacaktır. KASIV ile iletişime geçmek için aşağıdaki iletişim bilgilerini kullanabilirsiniz.</p>
14 : 54	15 : 00	<p>Participants' questions were received and answered.</p> <p>CLOSING speech was made and the meeting was ended.</p> <p><b>Picture <u>11 PRESENTATION FILE SHARED SECTIONS 11</u></b></p>

### Questions and Answers

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER
01	Participant 1	When will the works begin?	Consultant	After the current analysis, it was said that the works will start when the tender process is over.
02	Participant 2	How long will the works take?	Consultant	It is stated that the project phase will last for a maximum of 12 months.

### Meeting Photos







## Participant List and Contact Information

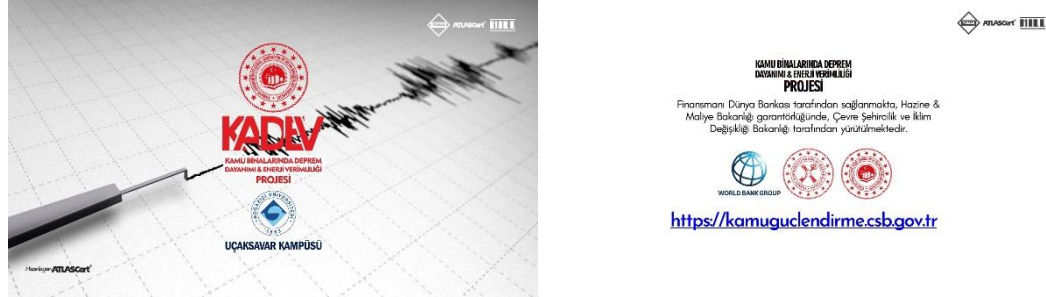
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Within the scope of the Law on the Protection of Personal Data Personal (Law No. 6698), participants' clear identity information cannot be shared. However, records of the meeting are kept by the PIU.



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

Project Code WB/CS-DESSUP-01 Building Name BOĞAZIÇI UNIVERSITY UÇAKSAVAR CAMPUS  
Date 12.12.2023 Start | End Time 14 : 00 | 15 : 23

START TIME	END TIME	ACTIVITY
14 : 00	14 : 03	Meeting kick-off speech (Moderator Hüseyin Tavashoğlu)
14 : 03	14 : 05	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 style="list-style-type: none"><li>As of 14:10, 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 : 05	14 : 08	Information was given about the SREEPB project and its objectives. Image 7 PRESENTATION FILE SHARED SECTIONS_01 

		  <p>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.</p> <p>Bu sunum; BOÜN Uçakşavar Kampüsünde yer alan SUPERDORM (19.700m<sup>2</sup>) yapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmalarını hakkında bilgi verecektir.</p>
14 : 15	14 : 20	<ul style="list-style-type: none"><li>The renovations to be carried out for the structural strengthening identified as a result of the feasibility study have been explained in detail. (Structural system reinforcement, fine works, etc.)</li></ul> <p>Image 8 PRESENTATION FILE SHARED SECTIONS_02</p>  <p><b>Yapım Aşaması</b> Ekit maddesinde, yapısal güçlendirme ve enerji verimliliği odaklı renovasyonlar belirlenmiş ve projelendirilmiştir. Site konusu renovasyonlar, aşağıda ana başlıklar halinde belirtilmiştir.</p> <p><b>Yapısal Güçlendirme</b></p> <ul style="list-style-type: none"><li>• Betonarme yapılar için sismik güçlendirme çalışmaları.</li><li>• Yapısal güçlendirme için gerekli olan yapısal güçlendirme çalışmaları.</li></ul> <p><b>Enerji Verimliliği</b></p> <ul style="list-style-type: none"><li>• Enerji verimliliği çalışmaları.</li><li>• Enerji verimliliği çalışmaları için gerekli olan yapısal güçlendirme çalışmaları.</li><li>• Enerji verimliliği çalışmaları için gerekli olan yapısal güçlendirme çalışmaları.</li><li>• Enerji verimliliği çalışmaları için gerekli olan yapısal güçlendirme çalışmaları.</li><li>• Enerji verimliliği çalışmaları için gerekli olan yapısal güçlendirme çalışmaları.</li><li>• Enerji verimliliği çalışmaları için gerekli olan yapısal güçlendirme çalışmaları.</li></ul> <p><b>Yapısal Güçlendirme</b></p> <p><b>Taahhüt Sistem Güçlendirme</b> Güçlendirme prosedürü ve kolon mantolama yapılacak akslardaki dışarıya çıkarılmak üzere en üst kattan badana çalışmaları, balyoz ve kırma marifetleriyle yapılacaktır. Duvar yıkımı öncesi zarar görme riski barmdır; kapı, pencere, vitrifiye, tavan, elektrik ve mekanik tesisat ekipmanları sökülerek ve faydalı bir kurum tarafından gösterilen alanlar dikkatli muhafaza edilecektir.</p>  <p><b>Yapısal Güçlendirme</b></p> <p><b>Taahhüt Sistem Güçlendirme</b> Sıkımlı inşaatın sona erdirilmesi için güçlendirme elemanlarının temel üzerine bağlanması amacıyla peşle ve kolon mantolama çalışmaları için subasman betonunun kırılması ve temel içi dolgu betonunun hazırlanması gerekmektedir. Bu kırma ve kazı işlemleri el ile (kırma ve balyoz yardımıyla) ve/veya yapı işçilerine girebilen küçük makinelerle (bobcat vb.) gerçekleştirilecektir.</p> 







		<div style="text-align: center;"> <b>Yapısal Güçlendirme</b> <b>Taahhüt Sistem Güçlendirme</b> Kırm ve kan işlemleri tamamlandıktan sonra mevcut kolon, kiriş ve temellere ankraj çubukları çakılır. Ankraj çubukları detay projelerindeki ölçülere uygun olarak detajlı montajlarla mevcut elemanlara detaj açılması, deliğin hava kongresyonu ile temizlenmesi, epoksi yapıştırıcının detaj çentisine sıkılması ve önceden hazırlanmış ankraj demirinin detaj çentisine sokulması şeklinde yapılır.  01 </div> <div style="text-align: center;"> <b>Yapısal Güçlendirme</b> <b>Taahhüt Sistem Güçlendirme</b> Ankraj imalatının ile beraber güçlendirme donatılarının döşenmesi işlerine başlanacaktır. Donatı numune kontrolleri sonrası Plywood kalıpları kapatılarak bir üst kat döşemesinden açılan delikten veya kuş ağzı da denilen kalıptan imal edilen haneler çerçevesinden kalıp çerçevesine "kendiliğinden yerleşen beton" (ince agrega), süper akışkanlığına katkılı beton) dökülür.  01 </div> <div style="text-align: center;"> <b>Yapısal Güçlendirme</b> <b>İnce İşler</b> Kaba inşaatın tamamlandığından ardından inşaat işlerine geçilir. Güçlendirme perdesinin iç ve dış yüzeylerine sıva, boya, sırtım vb. uygulamaları, betonun zemine izolye betona ve kaplama malzemesi düzenlemeleri, elektrik tesisatı ve mekanik tesisat montajları ve gerektiyorsa kap pencere imalatları yapılarak güçlendirme işleri tamamlanır.  01 </div>
14 : 20	14 : 23	<ul style="list-style-type: none"><li>▪ The renovations to be carried out for energy efficiency determined as a result of the survey are explained in detail.<ul style="list-style-type: none"><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></li></ul>

Image 9 PRESENTATION FILE SHARED SECTIONS\_03

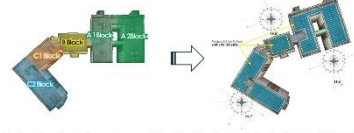


### Enerji Verimliliği Odaklı Çalışmalar

#### Çatı Üzeri Güneş Enerji Santralleri

SUPERDORM binasının çatısında 436 Ad. solar panelin tesis edilmesi için sığak hacim havalandırması dışında herhangi bir fonksiyonu olmayan yalıtı binalarının kullanılmasını gerektirmektedir. Bu işlem proje kapsamında gerçekleştirilecek ve teras Solar Paneli kullanılmayacaktır.

02



Yapılan hesaplamalar sığak konusunu sistemin yılda yaklaşık olarak 310.000 kWh/yıl (310 GWh) elektrik üretim potansiyelini barındırdığını göstermektedir.

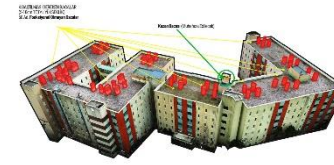


### Enerji Verimliliği Odaklı Çalışmalar

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02



### Enerji Verimliliği Odaklı Çalışmalar

#### Isı Merkezi Renovasyonu

669kW kapasiteli 2 kazandıran müteyakkül ısı merkezi (Üretim Yılı 1997) yüksek verimli yağışsuz 15 adet (7+8 gruplandırma) duvar tipi kazandıran olgıya KASBAY sistemine dönüştürülecektir. Bu suretle değişken yükler yüksek verimli şekilde karşılanabilecektir. Topsoil yapısı bu yenilemeye uygun biçimde yeniden tesis edilecektir.

02

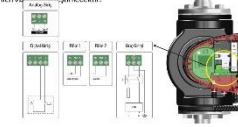


### Enerji Verimliliği Odaklı Çalışmalar

#### Motor & Pompa Değişimi

SUPERDORM binasında tesisatında yer alan 22 Ad. sirkülasyon motor & pompa elemanının tamamını (yüksek verimli) duvar tipi kazandıran ve pompalarını müteyakkül) enerjiye frekans kontrolü yüksek verimli motor & pompa sistemleri ve da İli motor & pompa kombinasyonu ile her bir frekans konvertörleri ile değiştirecektir. Sirkülasyon sistemi debi kontrolü ve ayarı (motor frekans değişimi), bu proje kapsamında tesis edilecek mekanik otomasyon sistemi ile (manuel, fark basınç sensör (transdüserleri) verileri, kapalı çevrim gözetim, dönüştürme su sıcaklığı verileri) kontrol edilecektir.

02



### Enerji Verimliliği Odaklı Çalışmalar

#### Aydınlatma Elemanları LED Dönüşümü

SUPERDORM yapısı içindeki 2098 Ad. aydınlatma elemanının tamamını, beyaz aydınlatma şiddeti ve renk sıcaklığına sahip LED aydınlatma armatürleri ile değiştirecektir.

02

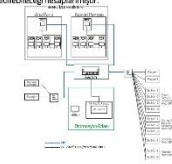





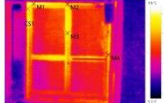
### Enerji Verimliliği Odaklı Çalışmalar

#### Otomasyon Sistemi

SUPERDORM binasında: enerji idare sistemi (ısıtma sistemi), demirlikt sıcak su üretimi, sirkülasyon motor & pompaların, güneş enerji kontrolü ve mekanik otomasyon sistemleri, EN ISO 50001 Enerji Yönetim Sistemi şartlarına uygun biçimde kurulması ve etkinliğinin sağlanması sureti ile toplam enerji tüketiminde -6% oranında tasarruf elde edilebileceği hesaplanmıştır.

02



		<div style="display: flex; justify-content: space-between;"><div style="width: 48%;"><p><b>Enerji Verimliliği Odaklı Çalışmalar</b></p><p><b>Ceşme Yalıtımı</b></p><p>SUPERDORM binası dış cephe kontrolletilmesinde; hali hazırda normal duvarlarda 40mm kalınlığında polistiren nesil termal yalıtım olduğu, çikiri yapıları kolonlarda (dönüşel duvar elemanları) ise termal yalıtım olmadığı tespit edilmiştir. Yapılan hesaplamalar, yalıtımlı bölümlerde dahi TS 825 şartlarının karşılanmadığını göstermiştir. Bu çerçevede mevcut yalıtımın kaldırılması ve yerine, bütün dış cepheyi kapsayan (kapitane sürekliliği 100mm kalınlığında taş yünü termal yalıtım katmanına tesisi önerilmiştir. (Uygulama yüzey alanı ~3.600m<sup>2</sup>)</p><p>02</p></div><div style="width: 48%;"><p><b>Enerji Verimliliği Odaklı Çalışmalar</b></p><p><b>Teras Çatı Yalıtımı</b></p><p>Yenide yapılan inceleme neticesinde SUPERDORM binası teras çatısı 4cm XPS (ekstrüde polistiren) türü termal yalıtım göstermiştir. Bunun yanında çatının su yalıtımındaki kusurlar nedeniyle özellikle üst katlarda tavın ve duvar yüzeylerinde pek çok noktada fiziki kusur (kabrarma, dökülmeye vb.) tespit edilmiştir. Yapılan hesaplamalar mevcut termal yalıtımın TS 825 şartlarını karşılanmadığını da ortaya koymaktadır. Bu çerçevede mevcut termal yalıtım katmanının kaldırılması ve yerine 100mm kalınlığında yüksek etil dıranca sahip XPS termal yalıtım katmanının ve su yalıtım katmanının tesisi önerilmiştir. (Uygulama yüzey alanı ~2.600m<sup>2</sup>)</p><p>02</p></div></div> <div style="text-align: center; margin-top: 20px;"><p><b>Enerji Verimliliği Odaklı Çalışmalar</b></p><p><b>Dış Kapı Değişimi</b></p><p>SUPERDORM yapısında ki yalıtımsız çerçevesi ve tek camlı kapılar ile termal yalıtıma sahip olmayan metal kapıların, termal yalıtımlı kamelenli ile değiştirilmesi önerilmiştir.</p><p>02</p></div> <div style="text-align: center; margin-top: 20px;"><p><b>Enerji Verimliliği Odaklı Çalışmalar</b></p><p>Yapılan hesaplamalar neticesinde SUPERDORM binası özelinde belirlenen önlenen senaryoların hayata geçirilmesi ile toplam enerji tüketiminde 43,14% oranında tasarruf elde edilebilecek, yaklaşık 328 ton/yl sera gazı emisyonu engellenebilecektir. Söz konusu renovasyonlar ve yenilenen sistemlerin EN ISO 50001 Enerji Yönetim Sistem şartlarına uygun biçimde işletilmesi ile yıllık 457.413,06kWh elektrik, 531.050,73 kWh doğalgaz tasarrufu sağlanabilecektir. Söz konusu tasarruflun maddi boyutu yaklaşık 2.400.000€/yıl seviyesindedir.</p><p>02</p></div>
14 : 23	14 : 26	<p>General statements regarding occupational health and safety plans were made within this framework;</p> <ul style="list-style-type: none"><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



### İş Sağlığı & Güvenliği

Yapım sürecine ilişkin iş sağlığı ve güvenliği planları hazırlanmıştır. **Yüklenici firmamız:**

- Tarifimca hazırlanan İŞ SAĞLIĞI GÜVENLİĞİ PLANI doğrultusunda, sorumlu olduğu bütün çalışanları kapsar mahiyette İŞ SAĞLIĞI GÜVENLİĞİ PLANI ve Risk Analizini hazırlaması ve Riskleri onaylama sorumlusu olacaktır. Ancak söz konusu plan, analizlerin uygun görülmesi sonrasında çalışmaları başlayacaktır.

Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

- Mobil vinç, kompresör vb. iş makinelerinin tamamının periyodik muayene raporlarını temin edilmiş olması ve makineler içinde hazır bulundurulması zorunludur. Söz konusu makineler, yetkili operatörler tarafından kullanılabilir. Operatörler yetki belgelerini hazır bulundurmalı ve cüza kontrolleri, denetimleri konusunda yetkili İSG uzmanlarından talepleri doğrultusunda beyan edilmelidir.



### İş Sağlığı Güvenliği

- Sahada kullanılan her türlü elektrikli cihaz ekipmanının elektrik updan güvenli olduğuna gözetilerek PAT testleri yapılması zorunludur. Söz konusu ekipmanların tamamında hacizlerinde uygunluğu gösterecek etiketler yerleştirilmelidir.
- Ancak uygun Mesleki Yeterlilik Belgesi'ne sahip çalışanların sahaya girmelerine izin verilmeyecektir.
- Bütün çalışanların görevleri çerçevesinde uygun kişisel koruyucu ekipmanlara sahip olması ve etkin olarak kullanılmalıdır.
- Bütün çalışanların, "Temel İSG Eğitimi ve Risk Analizi Eğitimi" almış olması zorunludur.
- Yüksekte çalışacak personellerin "Yüksekte Çalışma Eğitimi" almış olması zorunludur.
- Bütün çalışanların "EKED - Ektekte Kilitte Emniyete Al Deme Eğitimi" almış olması zorunludur.
- Çalışanların İŞ SAĞLIĞI GÜVENLİĞİ PLANI'nda belirlenen diğer ilgili eğitimleri çalışma öncesinde almaları zorunludur.
- İş bölgelerinin TS EN 12813-1 standardı şartlarını karşılaması esastır. Söz konusu iş bölgelerinde yapılacak bütün personellerin yüksekte çalışma eğitim almış olması, paraşüt tıp emniyet kemeri ve diğer engelleme ekipmanları kullanılmalıdır.
- Kempanya içinde İŞ SAĞLIĞI GÜVENLİĞİ PLANI'nda belirlenen "TRAFFIC YEM PLANI"na uygun hareket etmemelidir.
- Yüksekte firması bu çalışma süresince acil durum eylem planını geliştirmeli ve bütün çalışanlarını kapsar mahiyette tatbikatlar gerçekleştirmelidir.



### İş Sağlığı Güvenliği

Çalışanların tamamı İŞ SAĞLIĞI GÜVENLİĞİ PLANI'nda belirlenen kişisel koruyucu donanımları disiplinli şekilde kullanmaları yükümlüdür. Söz konusu donanımları uygun şekilde taşıyarak/kullanmalarını çalışmaları süresince denetimler yapılacaktır.

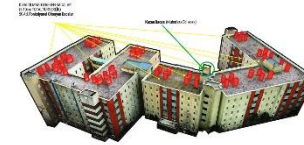
Örnek kişisel koruyucu donanımları:

- Baret - TS EN 297+A1
- Küçük Fıçıcı - TS EN 352-2
- Konuyuçu Gözlük - TS EN ISO 18321-3
- Genel Amaçlı İş Eldiveni - TS EN ISO 21420
- İş Ayakkabısı - TS EN ISO 20347
- Yarım Yüz Maskesi - TS FN 140
- Paraşüt Tipi Emniyet Kemeri - TS EN 361 (Sadece yüksekte çalışan personeller)



### İş Sağlığı Güvenliği

- Teras çatı üzeri solar panel tesis için mevcut binaların (yüksek basınçlı su) kullanılması gereklidir. Bu çalışmalar, yüksekte çalışma eğitim almış personellerce gerçekleştirilmelidir. İşin neticesinde ortaya çıkan malzeme parçalarının yere düşürülmesi önlenmelidir. İşin neticesinde ortaya çıkan malzeme parçalarının yere düşürülmesi önlenmelidir. Sokum alanı ve sokum neticesinde ortaya çıkan malzeme parçalarının yere düşürülmesi önlenmelidir. İşin neticesinde ortaya çıkan malzeme parçalarının yere düşürülmesi önlenmelidir. İşin neticesinde ortaya çıkan malzeme parçalarının yere düşürülmesi önlenmelidir.



### İş Sağlığı Güvenliği

- Acil durumlarda çalışanların toplanacağı bölgeler, deprem riski de dikkate alınarak belirlenmiş ve vaziyet planlarında gösterilmiştir.



14 : 26

14 : 28

- Information was given about the traffic action plan.



- Health & Safety Organization was explained.
- Image 11 PRESENTATION FILE SHARED SECTIONS\_05

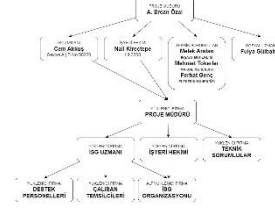


#### Trafik Eylem Planı

- Kamyonlu araç kullanımlarına ilişkin sınırlar **İS SAĞLIĞI GÜVENLÜĞÜ PLANI** içinde belirtilmiştir.



#### Sağlık & Güvenlik Organizasyonu



14 : 28

14 : 32

- The environmental impacts of the work to be carried out are explained.
- Image 12 PRESENTATION FILE SHARED SECTIONS\_06



#### Çevresel Etkiler

















- Proje sahada **Bogazici Üniversitesi Ucaksavar Kampüsü** alanı içerisinde. Kampüs dışında yer alan diğer binaların inşaat süreçlerinden **dışarıdan etkilenmeleri** söz konusu değildir. Faaliyet alan çevresi aşağıda gösterilmiştir.

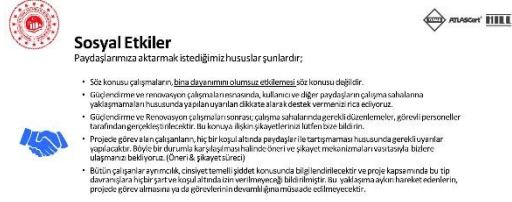



#### Çevresel Etkiler

- Simik güdüncü ve enerji verimliliği kapsamında yapılacak işlemlerden kaynaklı major etki alanı içinde proje kapsamında bulunan **Garanti Kültür Merkezi** ve **Yaşam Boyu Eğitim Merkezi** ve **Ucaksavar Spor Kompleksi** bulunmaktadır. Ayrıca proje sahalarında bulunan **Organize İhtimal Güneş Binaları** etkilenmeye beklenmemektedir. Gürültü, toz, vibrasyon, hafriyat atıklarının inşaat sahaya dışına yayılması gibi etki yönetiminde karşılaşılabilecek olası sorunlar, söz konusu binaların yapıları/özellikleri dikkate alınarak değerlendirilmiştir. Konuya ilişkin detaylı bilgi ve alınacak önlemler **ÇEVRESEL VE SOSYAL YÖNETİM PLANI** Bölüm 5'te (Çevresel ve Sosyal Riskler & Etkiler ve Alınacak Önlemler) yer almaktadır. Ayrıca, inşaat süreçleri her aşamada en az 7 gün önce, inşaatçı/yeniden yapımcı/bağlı kuruluş tarafından **inşaat başlatma bildirimi** ile ilgili olarak **inşaat başlatma bildirimi** ile ilgili olarak inşaat başlatma bildirimi, paydaşların görebileceği bir yerde, proje süresince sürekli olarak güncellenerek bulunacaktır.



		<div style="display: flex; justify-content: space-between;"><div style="width: 48%;"><h3>Çevresel Etkiler</h3><ul style="list-style-type: none"><li>İşletişim sırasında, bölgede hâlihazırda mevcut olan kanalizasyon, elektrik ve su yetersizlikleri kullanılacaktır.</li><li>Foşel atıklar, belediye hizmetlerinden faydalanılarak bertaraf edilecek, diğer atıklar için ise geçici depolama alanları oluşturulup lisanslı firmalarca bertarafını yapılması sağlanacaktır. Proje alanında herhangi bir atıyık hizmet alımı gerçekleştirilmesi durumunda kanalizasyon hattında tıkanma sonucu oluşan (vidanjör hizmeti alınan) uzun süreli elektrik kesintisi (mobil jeneratör), uzun süreli su kesintisi (bu tür kesinti ile tozlu müdahale vb.) mevcut atıyık emilimi (jeneratör vb.) değerlendirilecek ve ilgili yönetmeliklere uygun olarak gerçekleştirilecektir.</li></ul></div><div style="width: 48%;"><h3>Çevresel Etkiler</h3><p>Proje kapsamında, Müşavirlik, Yüklencisi firma personellerine verilen eğitimler sonucunda, yüklenici firmasının kurumsal kapasitesinin geliştirilmesi beklenebilir. Bu eğitimler aşağıdaki gibidir:</p><ul style="list-style-type: none"><li>Çevresel ve Sosyal Etkiler</li><li>Atık Yönetimi</li><li>Çevresel Risk Durumlarına Tepki</li><li>Enerji Verimliliği</li><li>Sıkıyet Müdahale Planı (SM)</li></ul></div></div> <div style="display: flex; justify-content: space-between;"><div style="width: 48%;"><h3>Çevresel Etkiler</h3><h4>Atık Yönetimi</h4><p><b>İnsaat Tehlikesizlik Abzaları:</b></p><ul style="list-style-type: none"><li>Sıkıyet faaliyetleri sonucunda binaya ait zeminde malzeme oluşması durumunda bina yönetimine çıkan malzemenin teslim edildiğine dair belge alınacaktır.</li><li>İnşaat/yüklenici atıklarının kazanılması ve özellikle atık yapı malzemesi olarak yeniden değerlendirilmesi öncelikli olarak ele alınacaktır. İnşaat atıkların ilgili belediyenin atık depolama tesisine gönderilecektir. Atıkların sahaya kabul edileceğine dair Belediyesinden resmî yazı alınarak idariye sunulacaktır.</li></ul></div><div style="width: 48%;"><h3>Çevresel Etkiler</h3><h4>Atık Yönetimi</h4><p>Tehlikesizlik Abzaları:</p><p>Tehlikesizlik Abzaları Yönetimi, Atık Yönetimi Yönetmeliği uyarınca gerçekleştirilecektir.</p><ul style="list-style-type: none"><li>Proje sahasında tehlikesiz atıkların geçici olarak depolanması durumunda atıklar, sağlamsız, sızdırmaz, emniyetli ve uluların kabul gördüğü standartlara uygun konteynerlerde ve proje alanı içerisinde muhafaza edilecek konteynerlerin kullanılması tehlikesiz atık depolama yöntemiyle ve depolama tesislerinde atık depolama, miktar, işleme, depolama, koruma, tozlanma ve depolama tarihi konteynerler üzerinde belirtilmektedir. Tehlikesiz atıkların en az 6 ay geçici olarak depolanabilir. (Geçici depolama alanları yüklenici firma tarafından mevzuata uygun olarak Üniversite idaresinden izin alınarak belirlenecek ve muayene süreci belirlenecektir.)</li><li>Zararlı maddelerin saklanması, konteynerler ve atık yağlar toprağı dökülme ve sızıntı önlemek için sızdırmaz beton alanlara yerleştirilecektir.</li><li>Zehirli (perişe) sahip boyalar, eticici madde (solvent) ya da kurşun badi kimyasallar kullanılmayacaktır.</li></ul></div></div>
14 : 32	14 : 34	<ul style="list-style-type: none"><li>It has been announced that the works will not adversely affect the building strength.</li><li>It has been stated that work areas should not be approached.</li></ul>

		<p>Image 7 PRESENTATION FILE SHARED SECTIONS_07</p>  <p><b>Sosyal Etkiler</b> Paydaşlarımıza aktarmak istediğimiz hususlar şunlardır;</p> <ul style="list-style-type: none"><li>• Site konusu çalışmaların <a href="#">hızla devam etmektedir</a> olduğu için konu şu değildir.</li><li>• Gözetim ve denetim çalışmalarını sürdürmekteyiz, kullanıcı ve diğer paydaşların çalışmalarına katkıları hususunda yapılan çalışmaların etkilerine katkıları için teşekkür ederiz.</li><li>• Gözetim ve denetim çalışmalarını sürdürmekteyiz, kullanıcı ve diğer paydaşların çalışmalarına katkıları hususunda yapılan çalışmaların etkilerine katkıları için teşekkür ederiz.</li><li>• Proje görev alan çalışanları, her bir lojistik alanında paydaşlarla tartışmaları hususunda gerekli olanlar olacaktır. Bu tür durumlar için ilgili paydaşlarla iletişime geçilmesi beklenmektedir.</li><li>• Bütün çalışanlar ayrımcılık, cinsiyet temelli işler konusunda bilgilendirilecek ve proje kapsamında bu tip davranışlara hiçbir şekilde yer verilmeyeceği bildirilecektir. Bu valdizasyon için her iki tarafın da işbirliği beklenmektedir.</li></ul> <p><b>Sosyal Etkiler</b> Proje kapsamında, Akademiye Hükümeti personeli ve verilecek eğitimler konusunda yüklenici firmamız kurumsal kapasitesini geliştirmeye çalışmaktadır. Bu eğitimler aşağıdaki gibidir:</p> <ul style="list-style-type: none"><li>• Çevresel ve Sosyal Etkiler</li><li>• Paydaş Katılımı/Bilgilendirme Faaliyetleri</li><li>• Sıkıyet Mekanizması (SİM)</li><li>• Cinsiyet Eğiği / Cinsiyet Temelli İşler/Cinsiyet Sınırları/Cinsiyet Saldırı/Cinsiyet Taciz</li><li>• Davranış Kuralları</li><li>• Tarihi Mirasın Korunması</li></ul>
14 : 34	14 : 36	<ul style="list-style-type: none"><li>▪ 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.</li></ul> <p>Image 8 PRESENTATION FILE SHARED SECTIONS_08</p>  <p><b>Yüklenici firmaların işyerinde yapılacak işyeri güvenliği tasarımları ve genel çevresel sosyal etkileri/etkileri. Bu proje için hazırlanan 150 sayfa uzunluğunda raporun özetidir.</b></p>

14 : 36	14 : 41	<p>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.)</p> <ul style="list-style-type: none"><li>It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes.</li><li>It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181.</li><li>Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods.</li><li>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 mechanism.</li></ul> <p>Image 9 PRESENTATION FILE SHARED SECTIONS_09</p> 
14 : 41	15 : 23	<p>Participants' questions were received and answered.</p> <p>CLOSING speech was made and the meeting was ended.</p> 

## Questions and Answers

Table 10 QUESTIONS & ANSWERS LIST

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER
01	Participant 1	Will precautions such as sound barriers be taken to prevent the surrounding primary school and Ucakavar Site from being affected by sound?	Hüseyin Tavaslıoğlu, Cem Akkuş Tülin Yıldırım	Night work (except concrete pouring) will not be done, and local noise barriers can be used for the school. It has been stated that the contractor company will carry out risk analysis studies and solutions will be produced from then on.
02	Participant 2	Will there be weekend work?	Hüseyin Tavaslıoğlu	It was said that the project contractor has not been determined yet.
03	Participant 3	What precautions have been taken regarding traffic flow, dust and noise, and vehicle traffic? How was it evaluated?	Tülin Yıldırım, Hüseyin Tavaslıoğlu, Ganime Güzel	It has been stated that a Traffic Management Plan will be obtained from the Contractor, that there will be no excavation work and that precautions for material transportation and facade works will be provided from the contractor. (A dust blocking system specified in the ESMP will be built.) It was stated that the university administration and surrounding settlements will be informed before each work.
04	Participant 4	When will the project start?	Tülin Yıldırım	It was said that it would start after a month at the earliest.
05	Participant 5	Will there be any problems with hot water and heating in other buildings during production?	Ganime Güzel, Hüseyin Tavaslıoğlu	It was stated that the beneficiaries will be informed 7 days before the works to be carried out.
06	Participant 6	What is the minimum standard of LED fixtures to be used?	Ganime Güzel, Tülin Yıldırım	It is stated that luminaires that comply with TS standards used in energy efficiency will be used.

07	Participant 7	Will there be reinforcement on the ground?	Ganime Güzel	After the examinations, it was stated that there was no such need.
08	Participant 8	Which material will be used for exterior cladding?	Hüseyin Tavaslıoğlu	It has been said that 80mm thick rock wool will be used.
09	Participant 9	Can the details of the project be shared with us?	Tülin Yıldırım	The details of the investments to be made are shared in the ESMP, and the beneficiaries will be informed when the work plan is finalized after the tender process is completed.



Table 11 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 e-mail addresses.
- Suggestion & grievance form link will be sent to all participants via their mobile phones or e-mail addresses.



Table 12 MEETING PHOTOS





## Appendix-1 Participant List and Contact Information

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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.

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



# Stakeholder Engagement Meeting Presentation



## KAMU BİNALARINDA DEPREM DAYANIMI & ENERJİ VERİMLİLİĞİ PROJESİ

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



<https://kamuguclendirme.csbgov.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; BOÜN Uçaqsavar Kampüsünde yer alan **SUPERDORM** (19.700m<sup>2</sup>) yapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmaları hakkında bilgi verecektir.



## Yapım Aşaması

Ekst neticesinde; yapısal güçlendirme ve enerji verimliliği odaklı renovasyonlar belirlenmiş ve projelendirilmiştir. Söz konusu renovasyonlar, aşağıda ana başlıklar halinde belirtilmiştir:

### Yapısal Güçlendirme

- Mevcut yapı elemanlarının güçlendirilmesi için taşıyıcı sistem iyileştirilmesi.
- Yapısal güçlendirme için gereken çelik, beton ve diğer yapı malzemelerinin temini.

### Enerji Verimliliği

- Çatı yalıtımı için malzeme kullanılması.
- Kapı ve pencerelerin yenisiyle değiştirilmesi.
- Sıcak su sistemlerinin modernizasyonu.
- Yalıtımlı duvarlar, pencereler ve kapılar kullanılması.
- Mekanik tesisatın modernizasyonu.
- Aydınlatma sistemlerinin modernizasyonu (LED aydınlatma, elektrik tesisatı modernizasyonu, klima tesisatı modernizasyonu).
- Güç hatları modernizasyonu (kapalı tesisat, elektrik tesisatı modernizasyonu).
- Enerji verimliliği için gerekli diğer çalışmaların yapılması (ısıtma tesisatı modernizasyonu, su tesisatı modernizasyonu).
- İklimlendirme sistemlerinin modernizasyonu.



## Yapısal Güçlendirme

### Taşıyıcı Sistem Güçlendirme

Sekim işlemlerinden sonra güçlendirme elemanlarının temelleme bağlanması amacıyla perde ve kolon mantosu çevresinin açılması için suşarman betonunun kırılması ve temel için dolgu betonunun kazılması gerekmektedir. Bu kırım ve kazı işlemleri ile (kırın ve balyaz yardımcıları) ve/veya yapı içine girilen küçük makinelerle (bobcat vb.) gerçekleştirilecektir.



## Yapısal Güçlendirme

### Taşıyıcı Sistem Güçlendirme

Ankraj imalatları ile beraber güçlendirme donatısının döşenmesi işlerine başlanacaktır. Donatı numune kontrolü sonrası Plywood kalıplar kapatılarak bir üst kat döşemesinden süpürme deliceni veya kuyu ağzı da denilen kalıptan imal edilen huniler çözümlenerek kalıp işine "kendiliğinden yerleşen beton" (in-situ agregat, süper akışkanlaştırıcı katkı beton) dökülmüştür.



## Yapısal Güçlendirme

### Taşıyıcı Sistem Güçlendirme

Güçlendirme perdeleri ve kolon mantoları yapılacak alandaki duvarlar işaretlenerek en üst kattan başlanacak şekilde, balyaz ve kuno marifetleriyle yıkılacaktır. Duvar yıkımı öncesi zarar görme siri barındıran; kapı, pencere, vitrinler, tavanlar, elektrik ve mekanik tesisat ekipmanları sökülecektir ve Faydalı Kurum tarafından gösterilen alanlarda geçici muhafaza edilecektir.



## Yapısal Güçlendirme

### Taşıyıcı Sistem Güçlendirme

Kırım ve kazı işlemleri tamamlandıktan sonra mevcut kolon, kiriş ve temellerde ankraj çukurları çakılır. Ankraj delikleri detay projelerindeki ölçülere uygun olarak delik makinalarla mevcut elemanlara delik açılması, deliğin hava kompresörü ile temizlenmesi, epoksi yapıştırıcının delik içlerine sıkılması ve üstünden hazırlanana ankraj demirinin delik içlerine sokulması şeklinde yapılır.



## Yapısal Güçlendirme

### İnce İşler

Kaba inşaatın tamamlandıktan sonra inşaat işlerine geçilir. Güçlendirme perdelerinin iç ve dış yüzeylerinin sıva, boya, ısıtma vb. uygulamaları, bocalan zeminlere tesviye betonu ve kaplama malzemesi düzenlemeleri, elektrik tesisatı ve mekanik tesisat montajları ve gençkayna kapa pencere imalatları yapılarak güçlendirme işleri tamamlanır.



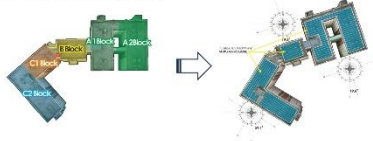


## Enerji Verimliliği Odaklı Çalışmalar

### Çatı Üzeri Güneş Enerji Santralleri

SUPERDORM binası teras çatılan üzeri; 550Wp kapasiteli solar paneller ile kaplanacaktır. (436 Ad. Panel | 237,62kW, Üretim Kapasitesi)

02



Yapılan hesaplamalar söz konusu sistemden yılda yaklaşık olarak 310.000 kWh/yıl (310 GWh) elektrik üretim potansiyeli barındırıyor/göstermektedir.

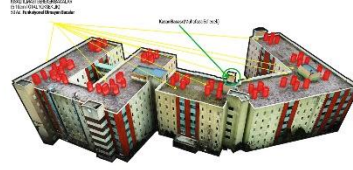


## Enerji Verimliliği Odaklı Çalışmalar

### Çatı Üzeri Güneş Enerji Santralleri

SUPERDORM teras çatılan üzerine 436 Ad. solar panelin tesis edilebilmesi için rüzgar hacim havalandırması dışında herhangi bir forklasyonu olmayan çatı bacasının losulması gerekmektedir. Bu işlem proje kapsamında gerçekleştirilecek ve teras Solar Panel tesisata uygun hale getirilecektir.

02



## Enerji Verimliliği Odaklı Çalışmalar

### Isı Merkezi Renovasyonu

669kW kapasiteli 2 kazandan müteşekkül ısı merkezi (Üretim Yılı 1997) yüksek verimliliğe sahip 15 adet (718 gruplandırılmış) duvar tipi kazandan oluşan KASİAT sistemine dönüştürülecektir. Bu suretle değişilen tesisler yüksek verimlilikte çalıştırılacaktır. Tesisat yapısı bu yenilemeye uygun biçimde yeniden tesis edilecektir.

02



## Enerji Verimliliği Odaklı Çalışmalar

### Motor & Pompa Değişimi

SUPERDORM binası tesisatında yer alan 22 Ad. sirkülasyon motor & pompa elemanının tamamı (büyük verimlilikli sensör motor ve pompadan müteşekkül) entegre frekans kontrollü yüksek verimlilikli motor & pompa sistemleri ya da 64 motor & pompa kombinasyonu ile her biri frekans konvertörleri ile değiştirilecektir. Sirkülasyon sistemi debi kontrolü ve ayar (motor frekans değişimi), bu proje kapsamında tesis edilecek mekanik otomasyon sistemi ile (manuel, fark basınç sensör/transmitterleri) verileri, kapalı çevrim gidis, dönüş su sıcaklık verileri vb. ile kontrol edilecektir.

02



## Enerji Verimliliği Odaklı Çalışmalar

### Aydınlatma Elemanları LED Dönüşümü

SUPERDORM yapısı içinde ki 2098 Ad. aydınlatma elemanının tamamı, benzer aydınlatma şiddeti ve renk sıcaklığına sahip LED aydınlatma armatürleri ile değiştirilecektir.

02

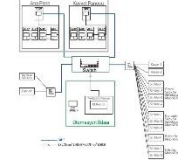


## Enerji Verimliliği Odaklı Çalışmalar

### Otomasyon Sistemi

SUPERDORM binasının enerji izleme sistemi (bina sistemi), domestik sıcak su üretimi, sirkülasyon motor şanzımanları, güneş enerji santrali ve mekanik otomasyon sistemleri, EN ISO 50001 Enerji Yönetim Sistemi şartlarına uygun biçimde kurulması ve etkinliğinin sağlanması sureti ile toplam enerji tüketiminde ~6% oranında tasarruf elde edilebileceği hesaplanmıştır.

02



## Enerji Verimliliği Odaklı Çalışmalar

### Ceeph Yalıtım

SUPERDORM binası dış cephe kontrolleri neticesinde; hari hasarı normal duvarlarda 40mm kalınlığında polistiren nevi termal yalıtım olduğu, çirkinti yapılan kollarında (dönüşü duvar elemanları) ise termal yalıtım olmadığı tespit edilmiştir. Yapılan hesaplamalar, yalıtımlı bölümlerde dahi TS 825 şartlarının karşılanmadığını göstermiştir. Bu çerçevede mevcut yalıtımın sökülmesi ve yerine, bütün dış cepheyi kapsayan (kaplama sızdırlığı) 80mm kalınlığında taş yünü termal yalıtım katmanını tesisi önerilmiştir. (Uygulama yüzey alanı ~3.600m<sup>2</sup>)

02



## Enerji Verimliliği Odaklı Çalışmalar

### Teras Çatı Yalıtım

Yerinde yapılan inceleme neticesinde SUPERDORM binası teras çatıda 4cm XPS (ekstrüde polistiren) türü termal yalıtım görülmüştür. Bunun yanında çatının su yalıtımındaki kusurlar nedeniyle özellikle ısı kollarında tavın ve duvar yüzeylerinde pek çok noktada fiziki kuzur (barbar, dökülme vb.) tespit edilmiştir. Yapılan hesaplamalar mevcut termal yalıtımın TS 825 şartlarına karşılanmadığını da ortaya koymaktadır. Bu çerçevede mevcut termal yalıtım katmanının temizlenmesi ve yerine 100mm kalınlığında yüksek ısı dirençli sahip XPS termal yalıtım katmanına ve su yalıtım katmanına tesisi önerilmiştir. (Uygulama yüzey alanı ~2.600m<sup>2</sup>)

02

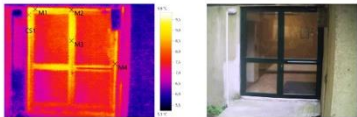


## Enerji Verimliliği Odaklı Çalışmalar

### Dış Kapı Değişimi

SUPERDORM yapısında ki yalıtımsız çerçevesiz ve tek camlı kapılar ile termal yalıtıma sahip olmayan metal kapıların termal yalıtımlı kametleri ile değiştirimi önerilmiştir.

02



## Enerji Verimliliği Odaklı Çalışmalar

Yapılan hesaplamalar neticesinde SUPERDORM binası özelinde belirlenen önlem senaryolarının hayata geçirilmesi ile toplam enerji tüketiminde 43,14% oranında tasarruf elde edilebilecek, yaklaşık 328 ton/yıl sera gazı emisyonu engellenebilecektir. Söz konusu renovasyonlar ve yenilenen sistemlerin EN ISO 50001 Enerji Yönetim Sistem şartlarına uygun biçimde işletilmesi ile yıllık 457.413,06kWh elektrik, 531.050,73 kWh doğalgaz tasarrufu sağlanabilecektir. Söz konusu tasarrufun maddi boyutu yaklaşık 2.400.000€/yıl seviyesindedir.

02



T.C. ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI



THE WORLD BANK



ATLAScert

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## İş Sağlığı & Güvenliği

Yapım sürecine ilişkin **iş sağlığı ve güvenliği planları** hazırlanmıştır. **Yüklenicinin**;

- Tarafınca hazırlanan **İŞ SAĞLIĞI GÜVENLİĞİ PLANI** doğrultusunda, sorumlu olduğu bütün çalışanları kapsar mahiyette **İŞ SAĞLIĞI GÜVENLİĞİ PLANI** ve Risk Analizini hazırlaması ve Müjavezi onayına sunması zorunludur. Ancak söz konusu plan, analizin uygulanması sonrasında çalışmalar başlayacaktır.
- Paydaşlarımızın bu palgımlarına ilişkin dikkat etmeleri gereken konular şunlardır:
- Mobil vinç, kompradör vb. iş makinelerinin tamamını periyodik şekilde bakımının temin edilmiş olması ve makineler içinde hazır bulundurulması zorunludur. Söz konusu makineler, yetkili operatörler tarafından kullanılabilir. Operatörler yetki belgelerini hazır bulundurulmalı ve saha kontrolleri, denetimleri ensansında ilgili SGK uzmanından talepleri doğrultusunda beyan edebilmelidir.



## İş Sağlığı Güvenliği

- Sahada kullanılan her türlü elektrik cihaz/ekipmanları elektrik şapkası altında güvenli şekilde PAT testleri yapılmış olmalıdır. Söz konusu ekipmanların tamamında cihaz üzerlerinde uygunluğu gösteren etiketler yer almamalıdır.
- Ancak uygun **Mesleki Yetenek Belgesi**ne sahip çalışanların sahaya girilmemesi zorunludur.
- Bütün çalışanların **Yükseklik Belgesi**ne sahip olması zorunludur.
- Bütün çalışanların **Yükseklik Belgesi**ne sahip olması zorunludur.
- Yükseklik çalışmaları **Yükseklik Belgesi**ne sahip olmayan kişiler tarafından yapılmamalıdır.
- Bütün çalışanların **Yükseklik Belgesi**ne sahip olması zorunludur.
- Çalışanların **İŞ SAĞLIĞI GÜVENLİĞİ PLANI** içinde belirtilen diğer ilgili eğitimleri çalışma öncesinde almış olmalıdır.
- İş kulelerinin **TS EN 12811-1** standart şartlarını karşılaması esastır. Söz konusu iş kulelerinde çalışacak bütün personellerin yükseklik çalışma eğitimi almış olmaları, paraşüt tiji emniyet kemeri ve düşme engelleyici ekipmanların kullanılmasını zorunludur.
- Kampüs içinde **İŞ SAĞLIĞI GÜVENLİĞİ PLANI** içinde belirtilen **TRAFFİK YERLEMLERİ PLANI**na uygun hareket edilmelidir.
- Yükseklik firması, bu çalışma sahası üzerinde acil durum eylem planları geliştirmeli ve bütün çalışanları kapsar mahiyette tabirlikler gerçekleştirilmelidir.



## İş Sağlığı Güvenliği

Çalışanların tamamı **İŞ SAĞLIĞI GÜVENLİĞİ PLANI** içinde belirtilen kişisel koruyucu donanımları dışıpnisi şekilde kullanmakla yükümlüdür. Söz konusu donanımları uygun şekilde taşımayı/kullanmayı zorunludur.

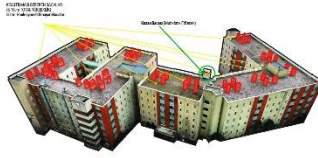
Örnek kişisel koruyucu donanımlar;

- Baret - TS EN 397+A1
- Kulak Tıkacı - TS EN 352-2
- Korumucu Gözlük - TS EN ISO 18321-3
- Genel Amaçlı İş Kıyafeti - TS EN ISO 21420
- İş Ayakkabısı - TS EN ISO 20347
- Yarı Yüz Maskesi - TS EN 140
- Paraşüt Tipi Emniyet Kemeri - TS EN 361 (Sadece yükseklik çalışan personeller)



## İş Sağlığı Güvenliği

• Teras çatı üzeri solar panel tesisi için **mevcut binaların (solaık hacim soğutma bcdü) kullanılmasını** gerektirmektedir. Bu çalışmaları yükseklik çalışma eğitimi almış personeller tarafından gerçekleştirilmelidir. Söküm neticesinde ortaya çıkan moloz parçalarının yere düşmesini önlemek için gerekli tedbirler (korumu şifesi, Aşık duvar, düşme engeli vb.) yükseklik firması tarafından gerçekleştirilmelidir. Söküm işlemi ve söküm neticesinde ortaya çıkan molozların yerleşkesine indirilmesi yükseklik firma tarafından iş için özel hazırlanacak yemecülardan verilmek üzere **mevcut binaların çatılarında** gerçekleştirilmelidir.



## İş Sağlığı Güvenliği

• Acil durumlarda çalışanların toplanacağı bölgeler, deprem riski de dikkate alınarak belirlenmiş ve vaziyet planlarında gösterilmiştir.

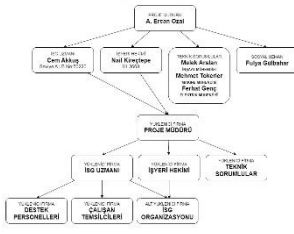


## Trafik Eylem Planı

• Kampüs için araç kullanımına ilişkin sınırlar **İŞ SAĞLIĞI GÜVENLİĞİ PLANI** içinde belirtilmiştir.



## Sağlık & Güvenlik Organizasyonu



## Çevresel Etkiler

• Proje sahası **Bağcı Üniversitesi Uçakçavar Kampüsü** alanı içerisindedir. Kampüs dışında yer alan diğer binaların inşaat süreçlerinden doğrudan etkilenmeleri söz konusu değildir. Faaliyet alanı çevresi aşağıda gösterilmiştir.



## Çevresel Etkiler

• Sırmık güçlendirme ve enerji verimliliği kapsamında yapılacak işlemlerden kaynaklı major etki alanı içinde proje kapsamında kullanılan **Garami Kültür Merkezi ve Yaşam Boyu Eğitim Merkezi ve Uçakçavar Spor Kompleksi** bulunmaktadır. Ayrıca proje alanında bulunan **Organizasyon Kampüsü** de etkilenmektedir. Gürültü, toz, vibrasyon, hafriyat atıklarının inşaat sahası dışına yayılması gibi etkilerin önlenmesi için alınacak önlemler **ÇEVRESEL VE SOSYAL YÖNETİM PLANI** Bölüm 5'te (Çevresel ve Sosyal Riskler & Etkiler ve Alınacak Önlemler) yer almaktadır. Ayrıca inşaat sürecindeki her aşamadan en az 7 gün önce üniversite yönetimine (İnşaat Bölümü) işin süresince süreli olarak güncellenerek bildirilmelidir. inşaat sürecinde, paydaşların görüşebileceği bir yerde, proje sürecine süreli olarak güncellenerek bulundurulacaktır.



## Çevresel Etkiler

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

• Eski atıklar, belediye hizmetlerinden faydalanılarak bertaraf edilecek, diğer atıklar için ise geçici depolama alanları oluşturulup belirli firmalarca bertaraf yapılacaktır. Proje alanında herhangi bir atıksız hizmet alanı, uzun süreli elektrik kesintisi (mobil jeneratör), uzun süreli su kesintisi (su tankeri ile tozla mücadele vb.) mevcut atıkların imalatı (jeneratör vb.) değerlendirilecek ve ilgili yönetmeliklere uygun olarak gerçekleştirilecektir.



## Çevresel Etkiler

**Atık Yönetimi**

**İnşaat Hafriyat Atıkları**

- Söküm faaliyetleri sonucunda binaya ait zemindeki malzeme olmaksızın binanın yıkılmasına kadar malzemenin **teslim edilme dair belge** alınacaktır.
- İnşaat/yıkım atıklarının kazanılması ve özellikle alt yapı malzemesi olarak yeniden değerlendirilmesi öncelikli olarak ele alınacaktır. Hafriyat atıkları ilgili belediyenin atık depolama tesisine gönderilmelidir. Atıkların sahaya kabul edileceğine dair Belediyenin resmi yazı alınarak idareye sunulacaktır.



## Çevresel Etkiler

**Atık Yönetimi**

**Tehlikeli Atıklar**

Tehlikeli atıkların yönetimi, **Atık Yönetimi Yönetmeliği** uyarınca gerçekleştirilecektir.

- Proje sahasında tehlikeli atıkların geçici olarak depolanması durumunda atıklar, sağlamlık, su tutma, emniyet ve ulaştırılması kalıdu günün standartlarına uygun konteynerlerle ve proje alanı içerisinde **muhafaza edilecek**, konteynerlerin üzerinde **tehlikeli atık** ibaresine yer verilmeli ve depolanmış malzemenin atık kodu, miktarı, içeriği, özellikleri, koruma koşulları ve depolanma tarihi konteyner üzerinde belirtilmelidir. Tehlikeli malzeme en az 6 ay geçici olarak depolanabilir. (Geçici depolama alanları yüklenici firma tarafından mevzuatta uygun olarak Üniversite İdaresinden izin alınarak belirlenecek ve müsavirle söz konusu alanlar bildirilmelidir).
- Zararlı maddelerin saklandığı konteynerler ve atık yağlar toprağa dökülme ve sızıntı önlemek için **uzaklaşma beton** alanlara yerleştirilmelidir.
- Tehlikeli çerççe sahip boyalar, enticil madde (solvent) ya da kurşun bari kimyasallar **kullanılmayacaktır**.





## Çevresel Etkiler

### Atık Yönetimi

#### Evsel Atıklar:

- Olacak evsel nitelikli atıklar kaynağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir olanları geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir.
- Geri kazanımı mümkün olmayan atıklar, ağız kapalı sızdı çöp bidonlarında biriktirilecek, Yetkili Belediyenin koni atık toplama sistemi aracılığıyla düzenli depolama sahalarına gönderilecektir.

#### Ambalaj Atıkları:

- Kontamine olmamış **geri dönüştürülebilir** atıkların (plastik, cam, kağıt, vb.) geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için **çalışanlara eğitim** verilecektir.
- Tehlikeli maddeler ile kontamine olmuş atıkların tamamı, **tehlikeli atık statüsünde** değerlendirilecektir.



## Sosyal Etkiler

Paydaşlarımızla aktarmak istediğimiz hususlar şunlardır;

- Söz konusu çalışmaların, **İnşa devamına olumsuz etkilemeye** söz konusu değildir.
- Güçlendirme ve renovasyon çalışmaları esnasında, kullanıcı ve diğer paydaşların çalışma sahalarına çalışmalarını hususunda yapılan uyarılar dikkate alınarak destek vermesi rica ediliyor.
- Güçlendirme ve Renovasyon çalışmaları sonrası; çalışma sahalarında gerekli düzenlemeler, görevli personeller tarafından gerçekleştirilecektir. Bu konuya ilişkin şikayetlerinizi lütfen bize bildirin.
- Projede görev alan çalışanlarımız, hiçbir koşul altında paydaşlarla tartışılmaması hususunda gerekli uyarılar yapılacaktır. Böyle bir durumda keş edilmiş hallerde öneri ve şikayet mekanizmaları vasıtasıyla bizlere ulaşmanızı bekliyoruz. (Öneri & şikayet süreci)
- Bütün çalışanlar ayrımcılık, cinsiyet temelli şiddet konusunda bilgilendirilecektir ve proje kapsamında bu tip davranışlara hiçbir şekilde izin verilmeyeceği bildirilecektir. Bu yaklaşımın etkin hakedetileceğini, projede görev almasına ya da görevlerinin devamına ilişkin müsaade edilmeyecektir.



## Sosyal Etkiler

Proje kapsamında, Müşavirin Yüklenici personeline vereceği eğitimler sonucunda yüklenici firmamız kurumsal kapasitesinin gelişmesi beklenmektedir. Bu eğitimler aşağıda listelenmiştir.

- Çevresel ve Sosyal Etkiler
- Paydaş Katılım/Bilgilendirme Faaliyetleri
- Şikayet Mekanizması (SM)
- Cinsiyet Eşitliği / Cinsiyet Temelli Şiddet/Cinsel Sömürü/Cinsel Saldı/Cinsel Taciz
- Davranış Kuralları
- Tarih Mirasın Korunması



**Yüklenici firmaların uygulan gereken iş sağlığı ve güvenliği kuralları ile genel çevresel sosyal etkiler/örnekler, bu proje özelinde hazırlanan İSG PLANI ve ÇEVRESEL ve SOSYAL YÖNETİM PLANI içinde açıklanmıştır.**



## Öneri Şikayet Sistemi

Öneri ve şikayetlerinizin; içeriği ne olursa olsun, nasıl kaleme alırsanız bizim için değeri olduğu bilmenizi istiyoruz. Genel etkilerle uygun işlemleriniz öneri ve şikayetlerinizden dolayı olumsuz herhangi bir durumda karşılaşmayacağınızı, eleştirilmeyeceğinizi garanti ediyoruz. Öneri ve şikayetlerinizi hangi yöntemle iletilirseniz **iletin (şikayet kutuları), mail , internet formları, yüz yüze sözlü ya da telefon)** hepsi aynı şekilde değerlendirilir, tamamı gizli bilgi statüsündedir, tarafsız bir kurul tarafından incelenir.

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



## Öneri Şikayet Sistemi

Çünkü, Sağlık ve İlim Bakanlığı'nın (ÇSİDB) hem telefon hem de web sitesi aracılığıyla erişilebilir bir ALO181' jantını hali vardır. Bu jantın hatta aynı zamanda çalışanlar, çözüm ortakları ve daha geniş tümörler için bakanlık düzeyinde bir şikayet mekanizması işlevi görür. ÇSİDB tarafından sağlanan tüm çevre ve şehir hizmetleri ile ilgili soru, talep ve şikayetler profesyonel olarak yönetilen ALO 181 çağrı merkezi tarafından yanıtlanmaktadır ya da Proje Uygulama Birimine iletilmektedir.

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

Çağrı Merkezi : ALO 181  
Telefon : 0312 586 4858  
E-Mail : [kgmkadev@csb.gov.tr](mailto:kgmkadev@csb.gov.tr)  
Şikayet Formu : <https://kadevportal.csb.gov.tr/ana1.jsp>



## Öneri Şikayet Sistemi

İnternet üzerinden şikayet formuna hemen erişim için lütfen yandaki kodu telefonunuza okutun.

(Bu sistem için akıllı telefonunuzda QR kodu okuyucu olması gerekir. Söz konusu uygulama sadece telefonlar internete bağlı adresinize şikayet formu erişim adresine yazabilmelidir.)



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