



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

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

**REVISED ENVIRONMENTAL AND SOCIAL MANAGEMENT  
PLAN**

DECEMBER

**2025**

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## Abbreviations

BU	Bogazici University
BP	Bank Procedure
CİMER	Presidency's Communication Center
Consultant	Tümaş & ATLASCert® & Hill Joint Venture
dBA	Noise Reduction and Control
dbc	Noise Rating Measure
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
FBGD	Ferhunde Birkan Girls' Dormitory
FoAA	Faculty of Aeronautics and Astronautics
FoM	Faculty of Mines
FoNAMS	Faculty of Naval Architecture and Ocean Engineering
GDCA	General Directorate of Construction Affairs
GM	Grievance Mechanism
ILO	International Labor Organization
ITU	İstanbul Technical University
LOTO	Lock Out-Tag Out
M&E	Monitoring and Evaluation
MoEUCC	Ministry of Environment, Urbanization, and Climate Change
OHS	Occupational Health and Safety
PIU	Project Implementation Unit
PPE	Personal Protective Equipment
PV	Photovoltaic Panel
SGI	Social Security Institution
SPP	Solar Power Plant
SREEPB	Seismic Resilience Energy Efficiency Public Buildings
WB	World Bank

# Executive Summary

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Seismic Resilience and Energy Efficiency in Public Buildings (SREEPB) Project focuses on seismic retrofitting and energy efficiency in public buildings such as higher education buildings, dormitories, social service institutions, hospitals, and government buildings located in high seismic risk areas with low energy efficiency. Under the reference number WB/CS-DESSUP-01, this project covers 33 structures on 11 campuses, including Boğaziçi University (BU), Marmara University, Istanbul Technical University (ITU), Istanbul University, Sakarya Government Building, and two student dormitories in Kocaeli.

This document has been revised to include Ferhunde Birkan Girl's Dormitory in accordance with the requests of the beneficiary institution, following its addition to the Environmental and Social Management Plan prepared for the Faculty of Aerospace Engineering, Faculty of Naval Architecture and Marine Sciences, and Faculty of Mining Engineering, located at the Ayazağa campus of Istanbul Technical University... It discusses the applicable national and international regulations, outlines measures to mitigate or eliminate potential adverse environmental and social impacts during the projects, and addresses health and safety measures. Additionally, this Environmental and Social Management Plan (ESMP) includes details about stakeholder engagement activities, and the establishment of a Grievance Mechanism (GM), and outlines the responsibilities of relevant parties within the project scope.

# Introduction

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

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

# 1. General Project and Project Area Information

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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 retrofitting them, as well as to make improvements in terms of energy efficiency, to reduce energy consumption and CO<sub>2</sub> emissions, to monitor and control energy consumption, to close the current deficit due to energy, and to develop the sector and raise awareness by creating a model for making all public buildings in Türkiye energy efficient after the project.

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

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

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

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

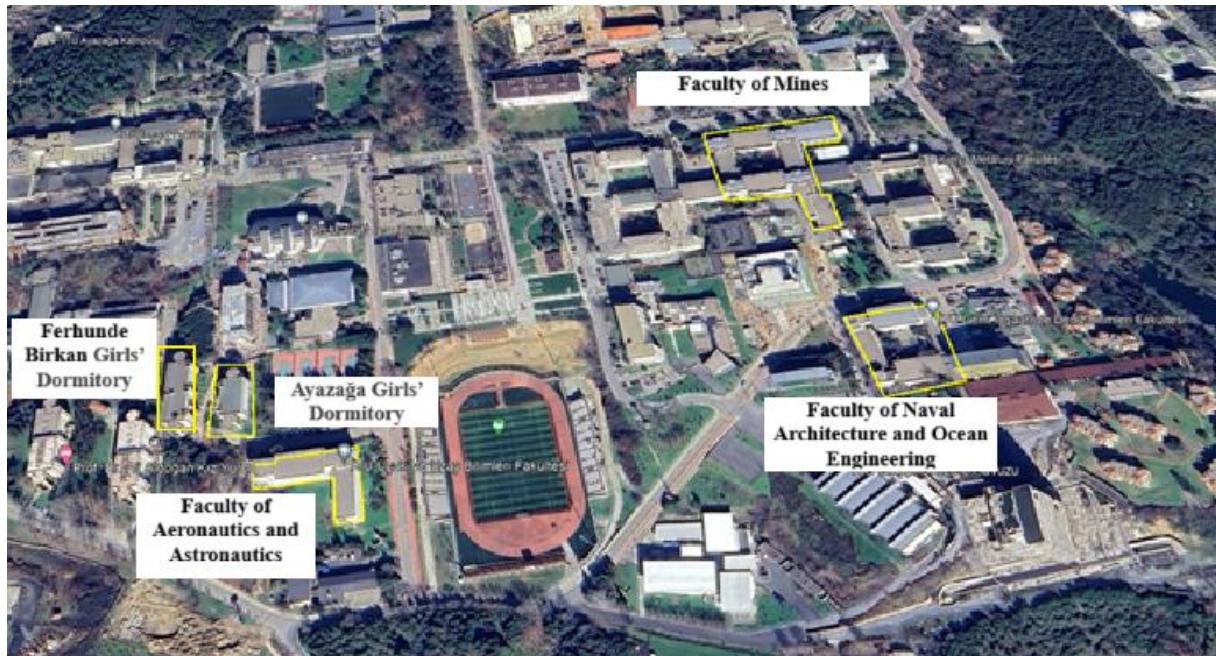
This ESMP has been prepared as a guidance document for the SREEPB Project to eliminate or, if not entirely possible, reduce to an acceptable level its environmental impacts such as waste generation (hazardous and non-hazardous), air and water pollution, as well as its impacts and risks on public health,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

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

## 1.1.2 Project Information

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

### Buildings within the Scope of the Project



**Figure 1: Ayazağa Campus, Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering and Faculty of Mines, Ayazağa Girls' Dormitory, Ferhunde Birkan Girl's Dormitory**

**Table 1: Building General Information**

<b>CAMPUS NAME</b>	Istanbul Technical University, Ayazağa Campus
<b>BUILDING NAMES (included in the project)</b>	<ul style="list-style-type: none"> <li>• Faculty of Aeronautics and Astronautics (FoA) (4 Blocks) (9.385,14 m<sup>2</sup>)</li> <li>• Faculty of Naval Architecture and Ocean Engineering (FoNAOE) (7 Blocks) (9925,37 m<sup>2</sup>)</li> <li>• Faculty of Mines (FoM) (12 Blocks) (15592,2 m<sup>2</sup>)</li> <li>• Ayazağa Girls' Dormitory (AGD) (1 Block) (3.395,25 m<sup>2</sup>)</li> <li>• Ferhunde Birkan Girls' Dormitory (FBGD) (1 Block) (7.072 m<sup>2</sup>)</li> </ul>
<b>PROVINCE</b>	İstanbul
<b>DISTRICT</b>	Sarıyer
<b>NUMBER OF USERS</b>	~1610 (FoA)+ 880 (FoNAOE)+2020 (FoM) + 250 (AGD) + 360 (FBGD) per/day ~Total:5.120 per/day
<b>BUILDING INFORMATION</b>	
<b>CONSTRUCTION AREA</b>	~45.369,96 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 retrofitting activities</li> <li>• Strengthening of the existing load-bearing system using carbon fiber reinforced polymer (CFRP) composite applications.</li> </ul>
<b>ENERGY EFFICIENCY</b>	<ul style="list-style-type: none"> <li>• Facade and roof thermal insulation</li> <li>• Door changes</li> <li>• Circulation system motor/pump changes</li> <li>• Non-insulated installation elements, thermal insulation installation for heat exchangers</li> <li>• Thermal insulation was installed on the heat exchangers in hot water production</li> <li>• Changes of pumps in the boiler room</li> <li>• Lighting element replacements (one-to-one replacements will be made, electrical installation intervention (line, column line replacement, etc.) will not be conducted.)</li> <li>• Self-consumption focused solar power plant facility (on the roof) (to be integrated into the existing supply line)</li> <li>• Energy monitoring and automation system facility (to be integrated into the existing electrical system)</li> <li>• Replacement of air conditioning unit motors with high-efficiency motors</li> <li>• Mechanical automation and energy measurement monitoring system</li> </ul>
<b>DURATION AND SEASON OF ACTIVITIES</b>	
All works to be carried out within the scope of the project were planned to be completed between the first quarter of 2024 and the first quarter of 2025; however, due to issues encountered in the handover of the buildings, the completion period of the subproject has been extended to the first quarter of 2026. The Contractor is obliged to complete the work in the buildings within the planned timeframe as specified in the Job Description. Additionally, the Contractor will inform all stakeholders clearly and in advance about the construction activities' schedule before commencing any construction work.	
<b>EXPECTED NUMBER OF WORKERS</b>	
The total estimated number of workers in the buildings is expected to be an average of 90 personnel per day.	

### 1.1.3 Locations of Campus & Buildings

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



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

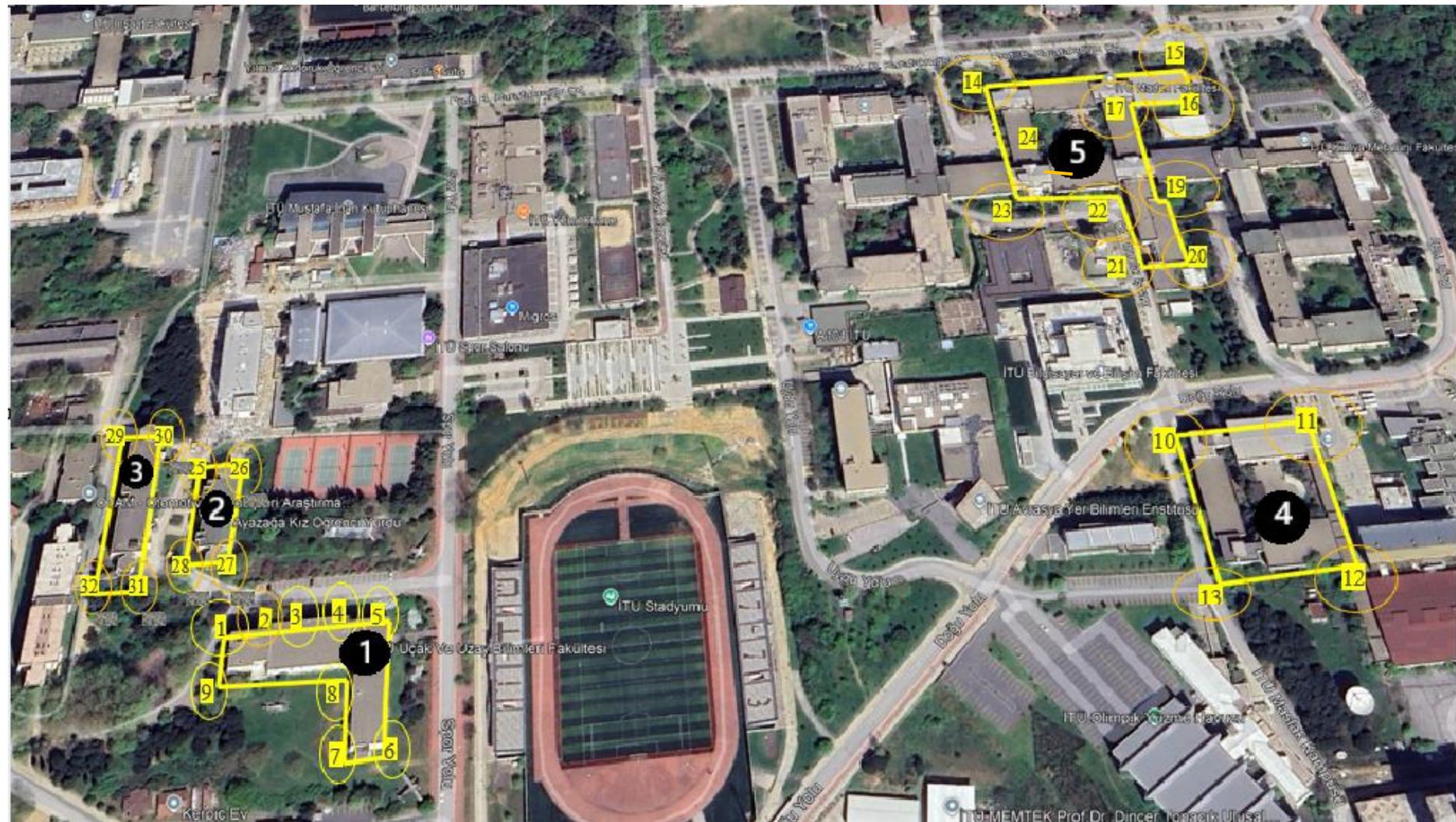
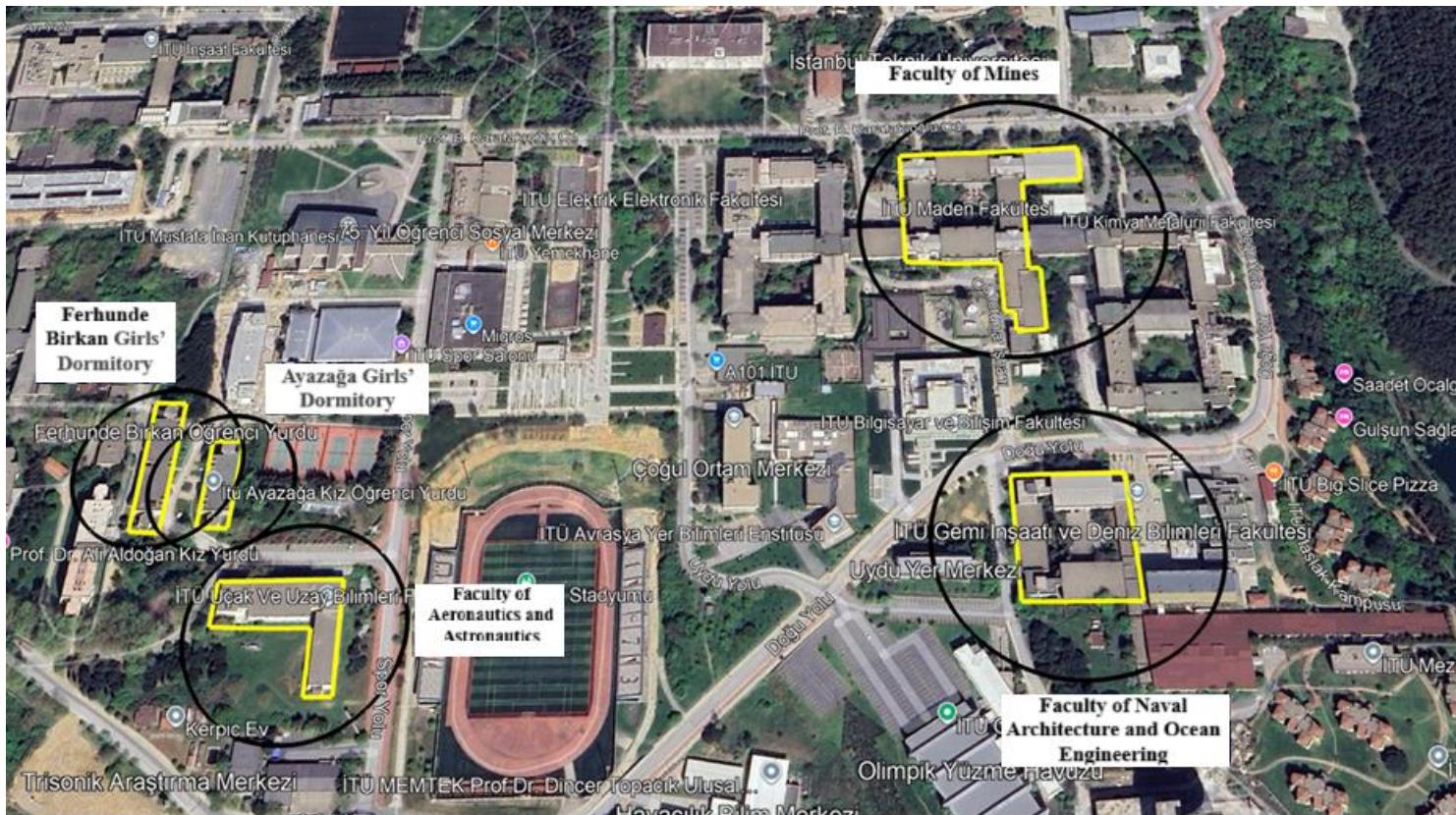


Figure 3: Istanbul Technical University FoAA, FoNAOE, FoM, AGD, FBGD View and Coordinates

<b>FACULTY OF AERONAUTICS AND ASTRONATURE SCIENCES</b>		
<b>No</b>	<b>Latitude</b>	<b>Longitude</b>
1	29.02110569023672	41.10127620493368
2	29.02178316024171	41.10138149138996
3	29.02185079036256	41.10102669483433
4	29.02208544815725	41.10107010469167
5	29.02195616163948	41.10162251403774
6	29.02169578371174	41.10158255312783
7	29.02125226153354	41.10152891698248
8	29.02124896617657	41.10148799283781
9	29.02105693358858	41.10147751972848
<b>FACULTY OF NAVAL ARCHITECTURE AND OCEAN ENGINEERING</b>		
10	29.0273412047567	41.10285775083892
11	29.02648529603217	41.10277234878651
12	29.02670515517044	41.10198809452068
13	29.02745613380758	41.10209843297633
<b>FACULTY OF MINES</b>		
14	29.02532567470882	41.10461342415597
15	29.02545900267367	41.10405702865836
16	29.0262422109253	41.10413114819379
17	29.02632380179636	41.10368748764546
18	29.02660335298974	41.10373266156289
19	29.02655157432888	41.10410947361222
20	29.02647209183689	41.10409292994066
21	29.02636496305263	41.10470273272126
22	29.02676800929425	41.10474315948398
23	29.02674532494171	41.10506161095628
24	29.02528753978049	41.10486946340978
<b>AYAZAĞA GIRLS' DORMITORY</b>		
25	29.0205820731791	41.10227380829869
26	29.02096248625698	41.10176287028518
27	29.02085153138083	41.10228267344824
28	29.02058036945007	41.10226140554894
<b>FERHUNDE BİRKAN GIRLS' DORMITORY</b>		
29	29.020131293563292	41.102306406720544
30	29.02031904819764	41.10232459700957
31	29.02042633656012	41.101780907306576
32	29.020249310762022	41.101748568743766

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



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

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

### **2.1 National Regulation**

The ESMP has been prepared primarily in accordance with the legislation of the Republic of Turkey. Turkey's basic framework regarding environmental legislation is the Environmental Law (No. 2872), which was published in the Official Gazette No. 18132 dated 11 August 1983 and was last revised in the Official Gazette No. 32762 dated 24.12.2024 regarding administrative fines. It is supported by regulations. The regulations that are primarily used/will be used to evaluate and prevent environmental impacts within the scope of this project are stated below.

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

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

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

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,an%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

The summarized technical information regarding the structural reinforcement and energy efficiency works to be carried out in the Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, and Faculty of Mines, Ayazağa Girls' Dormitory and Ferhunde Birkan Girls' Dormitory at Istanbul Technical University Ayazağa Campus is provided in Table 3 below. This Environmental and Social Management Plan (ESMP) will be accessible to all stakeholders throughout the project's duration, both at the construction sites and on the project's website (<https://kamugucelendirme.csb.gov.tr/>). Additionally, to ensure that stakeholders participate in the meeting with sufficient information about the project prior to the briefing meeting, the draft ESMP was disclosed on Istanbul Technical University's official website ([www.itu.edu.tr](http://www.itu.edu.tr)) on 26.03.2024, and the Stakeholder Engagement Meeting was held on 16.04.2024 in the meeting room of the Istanbul Technical University Construction Works Department. The contractor will employ a full-time environmental, social and occupational health and safety (OHS) specialists, while the Construction Supervision Consultant firm will employ an environmental, a social, and an OHS expert. The Consultant, Contractor, and Ministry Project Implementation Unit (PIU) will be responsible for recording and responding to environmental, social, and OHS questions and opinions raised by stakeholders.

**Table 3: Summary Information About the Activities to be Conducted**

<u>FIELDWORK</u>	
DEFINITION OF THE GEOGRAPHICAL, PHYSICAL, BIOLOGICAL, GEOLOGICAL, HYDROGRAPHIC, AND SOCIO-ECONOMIC CONTEXT	<p>CONSTRUCTION AREA : 9.385,14 m<sup>2</sup> INDOOR VOLUME : 32.065,80 m<sup>3</sup> NUMBER OF FLOORS : B+G+MF=3F BUILDING HEIGHT : 22,50 m VENTILATION TYPE : NATURAL/PARTIAL MECHANICAL</p> 

Figure 5: View of Istanbul Technical University Faculty of Aeronautics and Astronautics

CONSTRUCTION AREA	: 9.925,37 m <sup>2</sup>
INDOOR VOLUME	: 29.776,11 m <sup>3</sup>
NUMBER OF FLOORS	: 28+G+2F
BUILDING HEIGHT	: 18,00 m
VENTILATION TYPE	: NATURAL



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

CONSTRUCTION AREA	: 15.592,20 m <sup>2</sup>
INDOOR VOLUME	: 91.335,2 m <sup>3</sup>
NUMBER OF FLOORS	: 8+G+5F
BUILDING HEIGHT	: 22,50 m
VENTILATION TYPE	: NATURAL

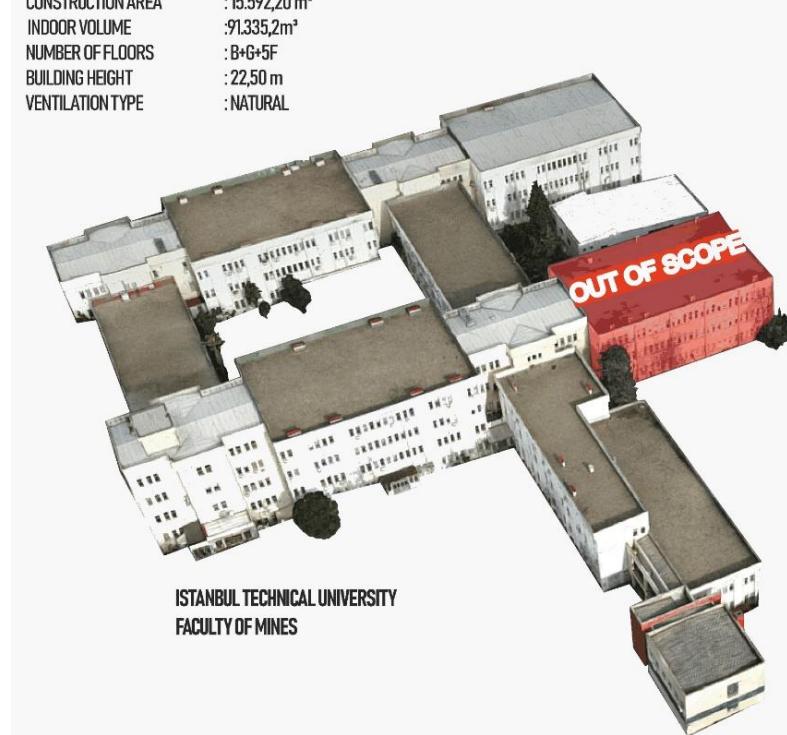


Figure 7: Istanbul Technical University Faculty of Mines



Figure 8 Ayazağa Girls' Dormitory



Figure 9 :Ferhunde Birkan Girls' Dormitory

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

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

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

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

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

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

In the major impact area of ITU Faculty of Mines:

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

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

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

Ayazağa Girls' Dormitory

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

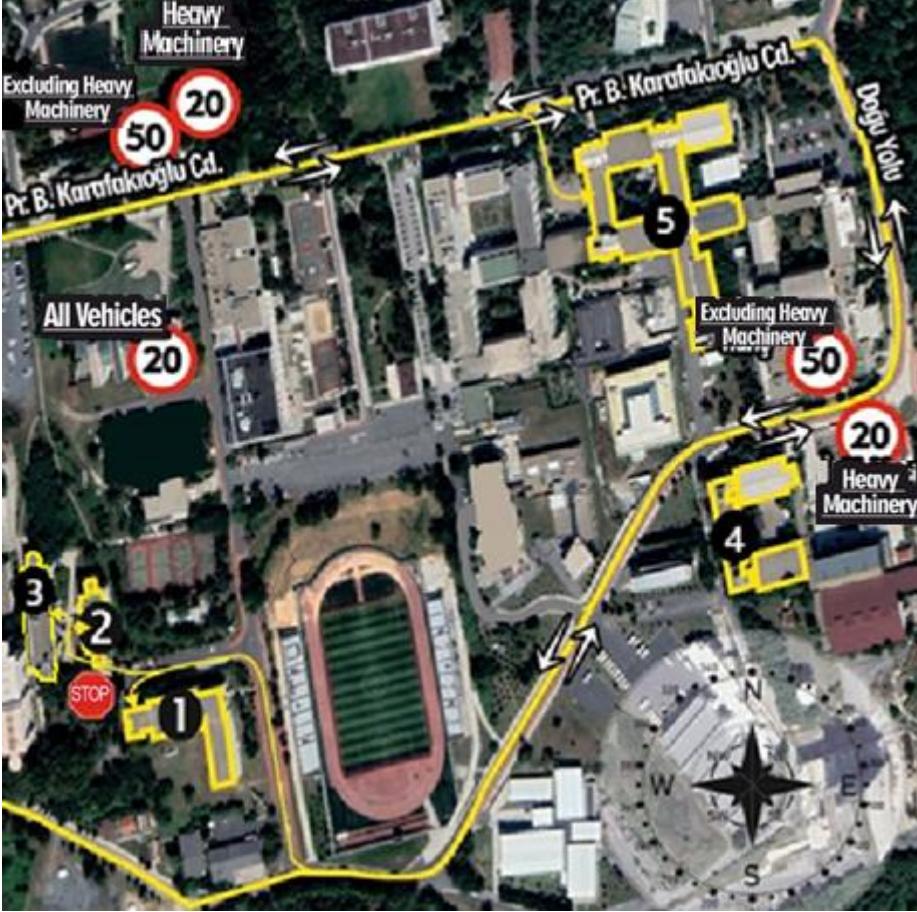
Ferhunde Birkan Girls' Dormitory

- OTAM – Automotive Technologies Research and Development Center (15 m)
- Ayazağa Girls' Dormitory (20 m)
- Altan Edige Girls' Dormitory (15 m)

#### Haşim Gürdamar Girls' Dormitory (30 m)

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

All these buildings that are close to the project area are considered as sensitive receptors, and the measures to be taken to prevent these sensitive receptors from being affected by possible environmental and social impacts/risks within the scope of the project are presented in Chapter 5, as stated above. There is a fully equipped

	<p>Acıbadem Maslak Hospital 4 km away from the project site. Considering the traffic situation, transportation by car is approximately 8 minutes. continues. This information will be taken into account during the preparation of OHS emergency action plans.</p>
	<p>Considering the activity area and its immediate surroundings, it is not foreseen that there will be any problems during the transportation of the materials needed for construction activities.</p> <p>Access roads and rules are specified in the Traffic Action Plan. The traffic action plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the Community Safety and Traffic Management Plan will be prepared by the contractor before the construction process begins.</p>
<b>TRAFFIC ACTION PLAN</b>	
<b>SEWAGE SYSTEM, ELECTRICITY, WATER NETWORKS, ETC. INFRASTRUCTUR E USED BY THE PROJECT</b>	<p>During the construction activities, the existing sewage, electricity, and water networks in the area will be utilized.</p> <p>Domestic waste will be disposed of through municipal services, and temporary storage areas will be established for other waste materials, which will then be disposed of by licensed companies. In the event of any specific infrastructure service requirements for the project (such as sewage line blockages resulting in overflow requiring septic truck services, prolonged power outages necessitating mobile generators, prolonged water shortages requiring water tanker services for dust control, etc.), and the necessary actions will be taken in accordance with relevant regulations.</p>

<p>NATIONAL LEGISLATION AND PERMITS APPLICABLE TO THE PROJECT ACTIVITY (EG. SPP INSTALLATION ETC.)VB.)</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>▪ Title deed in roof-type applications. 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>• District Municipality-SPP Compliance Letter (according to Zoning Regulation Legislation)</li></ul> <p>Within the scope of the "Regulation on Unlicensed Electricity Production in the Electricity Market", the online application to the authorized energy distribution company for photovoltaic panel installation will be carried out by the Consultant.</p>
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**STAKEHOLDER ENGAGEMENT PROCESS**

<b>STAKEHOLDER ENGAGEMENT PROCESS</b>	<p>The first stakeholder participation meeting regarding the feasibility studies conducted before the site assessment (determination of structural reinforcement needs, energy audit studies) was held face-to-face on 07.03.2023. During the meeting, technical details, objectives, and stages of the project were provided. The beneficiary institution management and PUI experts participated in the meeting (Total 11 people (6 female, 5 male)). (Energy Systems Engineer and 2 Electrical and Electronics Engineers attended the meeting in person; Social Specialist, OHS Specialist, and Environmental Specialist participated online.) (Annex VI)</p> <p>A stakeholder information meeting was held on 16.04.2024 to provide information about the technical, social, and environmental details of the prepared and approved projects before their implementation. The aim was to answer any questions the participants might have about the projects and to gather their opinions. Detailed information was provided at the meeting regarding the retrofitting and energy efficiency renovations to be carried out at Istanbul Technical University Ayazağa Campus 2nd Phase, Faculty of Aeronautics and Astronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines, and Ayazağa Girls' Student Dormitory, and the anticipated environmental and social impacts were discussed.</p> <p>The meeting was attended by representatives from the beneficiary institution's management, technical units, consultants from the expert firm, and PUB experts. In total, 7 people (2 female, 5 male) attended the meeting in person, while 8 others participated online, including 2 Environmental Experts, 2 Social Experts, 3 Occupational Health and Safety Experts, and 1 Energy Engineer Specialist (3 female, 5 male).</p> <p>Before the information meeting, this Environmental and Social Management Plan (ESMP) was made accessible to stakeholders by being published on the project's website (<a href="https://kamugucendirme.csb.gov.tr/">https://kamugucendirme.csb.gov.tr/</a>) for at least 10 days. The ESMP will remain accessible to all stakeholders throughout the project's lifespan, both on the relevant websites and at the construction sites. Additionally, a printed copy of this ESMP was made available for at least 10 days in all buildings involved in the project for stakeholder access.</p> <p>Details regarding the Grievance Mechanism established for the project are presented in Section 4.</p>
<b>ISSUES AND CONCERNS RAISED BY BUILDING USERS</b>	<p>During the information meeting held on 07.03.2023 regarding the feasibility studies, building users were informed about the structural retrofitting and energy efficiency renovation process and were asked if they had any concerns, opinions, suggestions, and/or questions regarding these potential activities. At that time, there was no feedback from any stakeholders, either written or verbal. However, later on, through an awareness survey conducted before the retrofitting process, a beneficiary reported that the gaps in the sample taken from the columns were not filled. The project implementation unit contacted the consultant, and all buildings under Dessup 01 were inspected. The consultant firm then filled the gaps in the columns. Details were recorded in the Grievance Log. During the stakeholder engagement meetings regarding the Environmental and Social Management Plan (ESMP), it was inquired whether students and other building users had any concerns about these works. These concerns were recorded in the stakeholder engagement meeting minutes, and stakeholders' opinions, suggestions, and concerns were included in Annex VII. Based on the additional data obtained from this meeting, this document has been revised.</p> <p>A stakeholder engagement meeting has not been held at the Ferhunde Birkan Girls' Dormitory due to the building still being unoccupied.</p>

#### INSTITUTIONAL CAPACITY DEVELOPMENT

TRAINING	<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>• Lockout Tagout Training</li><li>• Work Permit System Training</li></ul>
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## 4. Stakeholder Engagement and Grievance Mechanism (GM)

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

The ESMP specific to this sub-project will be disclosed on the SREEPB Project's website (<https://kamuguclendirme.csb.gov.tr/>) throughout the project lifecycle to ensure that all stakeholders are informed about how the project process will be conducted on-site and to receive any objections or suggestions they might have. On 26.03.2024, it was also posted at the Istanbul Technical University Ayazağa Campus buildings, including the Faculty of Aeronautics and Astronautics, the Faculty of Naval Architecture and Ocean Engineering, the Faculty of Mines, and the Ayazağa Girls' Dormitory; however, it was not posted at the Ferhunde Birkan Girls' Dormitory due to the building being out of use. Following the completion of the disclosure process, a Stakeholder Engagement Meeting was held again on 16.04.2024 to provide information about the project's technical, social, and environmental details by relevant experts and to address any questions and receive feedback from participants. The meeting was attended by the contractor, beneficiary institution management and technical units, consultant firm employees, and relevant experts from the Project Implementation Unit. (A total of 15 people attended the meeting, including 5 female and 10 male.) Details regarding the Stakeholder Engagement Meeting are presented in Annex VII.

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

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

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

Stakeholder Engagement Framework  
([https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894\\_paydas-katilim-cercevesi-mayis-final\\_20210521122305.pdf](https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894_paydas-katilim-cercevesi-mayis-final_20210521122305.pdf)). Additionally, all parties involved in the project are obliged to implement the Project's Environmental and Social Management Plan, Stakeholder Engagement Framework, and Labor Management Procedure.

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

**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 by the Grievance Mechanism Procedure of the project.

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

**b) Consultant Level:** Concerns/opinions/recommendations that cannot be addressed at the contractor level will be handled by the social specialist of the Consultant Firm, who serves as the Construction Controller. The Project Manager, following the Grievance Mechanism Procedure, will prepare a status report, reminding the contractor of their responsibilities and ensuring that necessary corrective actions are taken to resolve the issue.

The Consultant will assure all personnel involved in the project that they can use the GM, and that using it will not affect the renewal of their contracts in the future. If the Project Manager cannot resolve grievances /concerns/opinions/recommendations, they are obliged to refer them to the Ministry of Environment, Urbanization, and Climate Change. The Consultant firm is responsible for resolving within a maximum of 15 calendar days.

The Consultant will also report both direct grievances/concerns/opinions/recommendations they receive and those conveyed by the contractor to the Ministry of Environment, Urbanization, and Climate Change on a weekly basis.

**c) MoEUCC Provincial Directorates Level:** To the extent possible, the Provincial Directorate of Environment, Urbanization, and Climate Change will be responsible for grievances /concerns/opinions/recommendations received regarding activities carried out within the scope of the SREEPB Project. Provincial directorates will also promptly forward all grievances/concerns / opinions / recommendations received, whether or not they resolve them, to the Administration.

**d) MoEUCC Level (PIU):** Within the scope of the SREEPB Project, MoEUCC is responsible for collecting, recording, and resolving all grievances/concerns/opinions/recommendations expressed by stakeholders through the levels mentioned above. MoEUCC is responsible for resolving the collected grievances/concerns/opinions/recommendations within 15 calendar days and informing the complainant about the results. However, in cases requiring detailed investigation, this period can be extended to 30 calendar days.

Grievances regarding gender-based violence, sexual exploitation, and harassment are recommended to be submitted using the web-based complaint system provided in Annex III, which allows for anonymous

complaints. To ensure confidentiality, access to this web-based complaint system will be granted only to an authorized personnel.

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

**Table 4: CIMER 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>
Call Line	: Alo 150
Mailing Adress	: T.C. Cumhurbaşkanlığı Külliyesi 06560 Beştepe - Ankara
Phone	: 0312 590 20 00
Fax	: 0312 473 64 94

**Table 5: GM COMMUNICATION CHANNELS**

Call Center	: ALO 181
Phone	: 0312 586 4858
E-mail	: <a href="mailto:yigmakadev@csb.gov.tr">yigmakadev@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 suggestions and grievance mechanisms. They will be provided with information on this matter before the project commences. Further details on this issue are explained in the Stakeholder Engagement Framework (SEF) ([https://webdosya.csb.gov.tr/db/kamuguclundirme/menu/sreepb-p175894\\_paydas-katilim-cercevesi-mayis-final\\_20210521122305.pdf](https://webdosya.csb.gov.tr/db/kamuguclundirme/menu/sreepb-p175894_paydas-katilim-cercevesi-mayis-final_20210521122305.pdf)).

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

Records related to grievances, opinions, and suggestions will be regularly shared by MoEUCC with the World Bank (WB). Additionally, individuals or communities who believe they have been adversely affected by projects supported by the WB can submit their grievances through the project-level Grievance Mechanism (GM) available or directly to MoEUCC, or through the WB's Grievance Redress Service (GRS) at (<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><i>a) OHS</i></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, and electrical tools;</li> <li>- National and defined international occupational health and</li> </ul>	<ul style="list-style-type: none"> <li>• Local construction and environmental inspection authorities and communities will be informed about the planned activities.</li> <li>• The public will be informed through stakeholder participation, in the media, and/or in public places through appropriate notifications.</li> <li>• All necessary legal permits for construction and/or improvement will be obtained.</li> <li>• Regular site inspections will be conducted by the Project Implementation Unit (PIU) and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations, including the regulations regarding building fire protection, and the requirements of World Bank standards.</li> <li>• Detailed information and analyses regarding occupational health and safety are included in the Occupational Health and Safety Plan prepared for the same campus.</li> </ul>	Project Implementation Unit (PIU) Consultant

	<p>safety in the workplace - Failure to comply with national and defined international occupational health and safety requirements in the workplace;</p>	<ul style="list-style-type: none"><li>• In areas where the underground natural gas pipeline passes, the Natural Gas Provider Company is responsible for the necessary work before the start of Phase II (Construction Phase) of the projects. All processes related to the Natural Gas Pipeline will be carried out by the Service Provider Local Distribution Company, and before the Site Handover, all necessary conditions will be created with all checks and tests completed entirely, and the delivery will be made as specified in the projects. For all processes related to the natural gas pipeline, the Property Owner must apply in accordance with the relevant legislation. Therefore, neither the Consulting Firm nor the Contractor will intervene in any way in the natural gas pipeline.</li><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>• Occupational Health and Safety Plan for Istanbul Technical University Ayazağa Campus - Faculty of Aeronautics, Faculty of Naval Architecture and Ocean Engineering, Faculty of Mines and Ayazağa Girls' Dormitory was prepared by the Consultant. With the inclusion of the Ferhunde Birkan Girl's Dormitory in the project, the OHS Plan has been revised. Work will be carried out in the field in accordance with the measures determined in the OHS Plan..The Contractor company will</li></ul>	<p>Consultant PIU Contractor</p>
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		<p>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.</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/kamugucuclendirme/menu/SREEPB-p175894_csyd_final100521--mayis_20210510070430.pdf">https://webdosya.csb.gov.tr/kamugucuclendirme/menu/SREEPB-p175894_csyd_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><li>• Occupational Health and Safety (OHS) training will be provided to employees, identifying potential risks related to the work site and</li></ul>	Consultant Contractor

		<p>tasks, and weekly and monthly site safety meetings will be conducted.</p> <ul style="list-style-type: none"><li>• The contractor formally acknowledges that all works will be carried out in a safe and disciplined manner, designed to minimize the impact on residents and the environment.</li><li>• The contractor will appoint personnel/responsible/experts with relevant certificates and experience for occupational health and safety.</li><li>• The contractor will provide a safe working environment for workers and, before construction activities, will supply personal protective equipment (PPE) (such as helmets, masks, safety goggles, safety harnesses, and safety boots as needed) in accordance with international best practices and Turkish regulations.</li><li>• An appropriate environment for workers to rest during breaks will be provided by the contractor firm, and this will be arranged and approved in consultation with building managements, taking into account the number of workers and break times.</li><li>• Eating places for workers will be established in areas determined by building technical units with the written permission and approval of the student dormitory management.</li><li>• Changing areas (lockable) for employees will be provided inside the building with the written permission and approval of the ITU Ayazağa Campus management. The areas in question will be determined by the building technical staff and the use of areas outside these areas is strictly prohibited. Employees should not keep their valuables in these areas, theft that may occur in the said area, etc. The contractor company will inform the employees that the building management bears no responsibility for the negativities. The issue in question will also be announced with warning signs.</li></ul>	
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	<ul style="list-style-type: none"><li>• Toilet needs for workers will be addressed through building infrastructures with the written permission and approval of the student dormitory management. In case the existing infrastructure cannot be used, WC containers with all necessary hygiene materials will be provided by the contractor. However,<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></li><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 individuals or activities, employees will immediately report three situations to their supervisor (The responsible supervisor's contact information will be provided to all employees by the contractor). The contractor will document and report such situations to the consultant. Any decision/action related to this process will be carried out in accordance with the knowledge and approval of the building management.</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</li></ul>	
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		<p>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).</p> <ul style="list-style-type: none"><li>• In the event of any epidemic or pandemic/infectious disease, guidance, guidelines, and recommendations provided by the Ministry of Health, Ministry of Labor and Social Security, and the World Health Organization will be followed. All relevant measures for occupational health and safety for both employees and workplaces will be implemented.</li><li>• Entry of third parties without a specific role in the construction site will be prevented.</li><li>• The names of personnel who will be on duty at the construction site, along with the necessary training certificates, will be submitted to the Consultant in a list. Employees with appropriate training and personal protective equipment will enter the construction site with identification cards.</li><li>• Individuals under the age of 18 will not be allowed to enter the construction site.</li><li>• Smoking areas on the construction site will be determined by the contractor.</li><li>• Eating, drinking, break/rest, toilet, and sink facilities will be provided in designated areas within the building where the work is being carried out, as indicated by technical units. This information will be communicated to the student dormitory management. Workers involved in the project will not leave the allocated areas.</li><li>• Hygiene materials necessary for workers will be provided by the contractor. The existing sewer infrastructure in the region will be used for wastewater.</li></ul>	
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	<ul style="list-style-type: none"><li>• Packaged water (plastic bottle, glass bottle, etc.) will be provided for 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 as always wearing helmets, using respiratory protective equipment when necessary, protective eyewear, full-body safety harnesses, foot protection, etc.</i>).</li><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 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></ul>	
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	<ul style="list-style-type: none"><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><li>• Before entering the site, all lifting equipment, pressure vessels, and boilers will undergo periodic inspections, and access approval will be granted after inspection by the consultant.</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>• storage areas for materials will be established. Chemical substances will be brought to the site after checking their safety data sheets.</li></ul>	
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	<ul style="list-style-type: none"><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 authorized employees, and they will receive training before entering the site.</li><li>A construction method and risk assessment will be conducted for every activity to be carried out in the field.</li><li>A 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></ul>	
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	<ul style="list-style-type: none"><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><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>• The contractor and all subcontractors will create a written and signed social policy/commitment statement, confirming that they will not</li></ul>	
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		<p>engage in forced labor, child labor, or employ uninsured workers. They will also commit not to discriminate among workers based on age, gender, religion, language, race, etc., and will refrain from the use of force, abuse, bullying, insults, and humiliation. This document will emphasize that all contractor employees should pay attention to these aspects in their relationships and communication with each other.</p> <ul style="list-style-type: none"> <li>Measures will be taken to prevent the spread of infectious diseases (including sexually transmitted diseases and infections such as HIV) and non-communicable diseases arising from the performance of construction works. In this context, particular attention will be given to the awareness that different groups of the community, especially vulnerable and fragile groups, may be at varying levels of risk. Preventive and mitigating measures will be implemented to address the spread of infectious diseases that may arise from temporary or permanent labor mobility associated with the contract.</li> </ul>	
<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>All procedures related to asbestos are outlined in Appendix-8 of the Environmental and Social Management Framework document. The work will be carried out in accordance with the requirements of Annex 8 and the Regulation on Health and Safety Measures in Work with Asbestos and other relevant legislation.</li> <li>Additional cleaning will be added to the building's cleaning schedule to eliminate the excess dust and dirt generated by the demolition work.</li> </ul>	<p>Contractor</p>

		<ul style="list-style-type: none"> <li>• To minimize the risk of misuse, leaks, and accidental human exposure, the storage, transportation, and distribution of hazardous materials will be carried out in accordance with safety guidelines.</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><i>c) Safety</i></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 Ministry of Health will be taken into consideration. The relevant regulations will be used as a general reference during the construction.</li> <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</li> </ul>	Contractor

		<p>capable of taking all necessary measures to prevent accidents. The Contractor will establish a dedicated team for this purpose.</p> <ul style="list-style-type: none"> <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 machines, equipment, and system parts will be transported by the contractor to the area requested by the building management (inside the building and/or within the campus). The transportation and delivery process will be documented with a delivery report. As of the date when this report is signed by both parties, the responsibility for the scrap parts will belong to the building management.</li> </ul>	
<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b><i>d) Waste Management</i></b>            Various waste streams and improper waste management may lead to potential adverse environmental and health effects (improper waste management can</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 the Environmental and Social Management Plan through site inspections.</li> <li>• Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations as well as the requirements of the World Bank's ESF.</li> </ul>	<p>PIU            Consultant</p>

	<p>result in direct and indirect pollution of water and soil and can affect air quality).</p>	<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<sup>7</sup>.</li><li>• Waste collection and disposal routes and sites for all waste types expected to arise from renovation, demolition and construction activities will be defined in site-specific Waste Management Plans.</li><li>• Daily visual site inspections will be conducted by the consultant to monitor the implementation of mitigation measures.</li></ul>	Consultant
		<ul style="list-style-type: none"><li>• All types of waste will be separated at the source and collected separately during construction activities. The waste will be transported to temporarily designated waste storage areas in compliance with project and regulatory requirements, as determined in consultation with the beneficiary's knowledge. The temporary storage period is limited to 6 months.</li><li>• Temporary storage areas will be determined by the contractor company by obtaining permission from the Istanbul Technical University Ayazağa Campus Rectorate Administration and the consultant will be notified of the areas in question.</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 its own waste.</li><li>• The contractor will, if possible, reuse and recycle appropriate and feasible materials (except asbestos).</li><li>• Documents related to waste disposal and recycling will be regularly maintained and recorded. A Waste Record Information Form will be prepared for keeping these records.</li></ul>	Contractor

<sup>7</sup> [https://webdosya.csb.gov.tr/db/kamugucendirme/menu/kadev-p175894\\_csycc\\_final100521--mayis\\_20210510070430.pdf](https://webdosya.csb.gov.tr/db/kamugucendirme/menu/kadev-p175894_csycc_final100521--mayis_20210510070430.pdf)

	<ul style="list-style-type: none"><li>During construction activities, when vehicle tires need replacement, old tires will be disposed of through a tire distribution and sales business using licensed vehicles for transportation.</li></ul> <p><b><u>Solar Panels</u></b></p> <ul style="list-style-type: none"><li>Unused and/or end-of-life solar panels will be temporarily stored in an area determined by the beneficiary for a maximum of 6 months, in a way that does not pose an OHS and environmental risk.</li><li>PV panels taken to licensed facilities with licensed vehicles after temporary storage will be primarily recycled, and those that cannot be recycled will be disposed of in accordance with the relevant legislation.</li></ul> <p><b><u>Excavation, and Debris 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><li>Construction and excavation wastes will be stored on-site in covered conditions until they are transported to the waste storage facility, and any adverse impacts caused by the wastes will be prevented.</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.</li></ul> <p><b><u>Hazardous Wastes:</u></b></p>	
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	<ul style="list-style-type: none"><li>• In the temporary storage of hazardous wastes on the project site, the wastes will be kept in secure, leak-proof, and internationally accepted standard containers within the project area. The containers will be labeled as hazardous waste, and information such as the waste code, quantity, content, characteristics, protection conditions, and storage date of the stored substance will be specified on the containers. Hazardous substances can be stored temporarily for a maximum of 6 months. (Temporary storage areas will be determined by the contractor by the regulations, with permission obtained from the University Administration, and these areas will be reported to the consultant.)</li><li>• Regardless of the amount of waste, Liability Insurance will be obtained for the operation of temporary storage areas for hazardous and non-hazardous wastes.</li><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, solvents, 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></ul>	
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	<ul style="list-style-type: none"><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><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 Sarıyer 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/kadep-p175894_csyc_final100521--mayis_20210510070430.pdf">https://webdosya.csb.gov.tr/db/kamuguclatma/menu/kadep-p175894_csyc_final100521--mayis_20210510070430.pdf</a>). The Contractor will act by 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 Campus.</li></ul>	
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		<ul style="list-style-type: none"> <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>	
		<ul style="list-style-type: none"> <li>Site-Specific Pollution Prevention Plans to be prepared by the Contractor will be reviewed by the Consultant and approved by PIU.</li> <li>Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations as well as the requirements of the World Bank ESF.</li> </ul>	<p>PIU    Consultant    Contractor</p>
<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b>e) Pollution Prevention</b>    Demolition and construction activities can lead to pollution on construction sites</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> </ul>	<p>Yüklenici</p>

	<ul style="list-style-type: none"><li>• Training records will be maintained at construction sites.</li></ul>	
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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	<p><i>f) Noise</i></p> <p>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 ESH 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 stipulates that noise levels should not exceed 55 dB between 07:00-22:00 and 45 dB between 22:00-07:00 for residences/educational institutions and public institutions (<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></ul>	Contractor
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		<ul style="list-style-type: none"><li>• Following the start of construction, noise levels will be measured once inside and outside by accredited laboratories during the demolition process and the necessary precautions will be determined as a result of the measurements. If measurements exceed the levels allowed by legislation and WBG EHS Guidelines, measurements will be made at regular intervals every week.</li><li>• As a result of the measurements, if necessary, noise curtains will be placed to prevent nearby settlements from being affected by noise.</li><li>• Site assessments will be conducted according to the Environmental Noise Guidelines for the WHO European Region.</li><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>• The work schedule of works that create high levels of noise will be planned in coordination with the University Administration.</li><li>• The work schedule of works that create high levels of noise will be planned in coordination with the university administration.</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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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	g) <i>Air Quality/Emission:</i>	<ul style="list-style-type: none"><li>Debris will be kept in a controlled area and water will be sprayed to reduce debris dust. (Water will be supplied from the infrastructure of the campus area. In case of long-term water outage or if permission cannot be obtained from the Administration, water tanker may be used.)</li><li>Following the start of construction, dust measurement will be carried out once by accredited laboratories indoors and outdoors during the demolition process. The principles for preventing air quality problems occurring during demolition activities will be determined in the Construction Methods (which will be prepared by the contractors and approved by the PIU).</li><li>Renovation and retrofitting works will mainly take place within the building. Dust generated during scraping and stripping operations will be suppressed by continuous water spraying.</li><li>In case of debris generation, a debris chute will be used after the first floor. In cases where a debris disposal chute cannot be installed, alternative solutions will be implemented, and under no circumstances will wastes be thrown from height.</li><li>The surrounding environment (sidewalks, roads) will be cleared of debris to minimize dust.</li><li>Open burning of construction materials/waste substances will not be allowed at the construction site.</li><li>Construction vehicles at the construction site will not be idled for an excessive period.</li><li>When material needs to be transported, truck tops will be covered. The speed limit for such vehicles within the campus is set at 20 km/h.</li><li>All vehicles to be used will have exhaust emission permits, and regular maintenance will be conducted on all vehicles or monitored for maintenance.</li></ul>	Consultant Contractor
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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	<p><b><i>h) Water Quality</i></b></p> <p>Uncontrolled disposal of wastewater/waste generated at the construction site can affect the coastline.</p>	<ul style="list-style-type: none"> <li>Efforts will be made to minimize the storage or disposal of waste generated on the construction site.</li> <li>Since the campus is far away from water sources such as seas and lakes, it is not expected to have a negative impact on surface waters.</li> <li>Construction vehicles and machinery will only be washed in areas where surface runoff will not contaminate natural surface water bodies.</li> <li>In operations involving chemicals, measures such as trays, thick nylon tarps, etc. will be taken against possible spills.</li> </ul>	Consultant Contractor
	<p><b><i>i) Soil Quality</i></b></p> <p>The mixing of hazardous substances and waste into the soil</p>	<ul style="list-style-type: none"> <li>The disciplined implementation of waste management mentioned in previous sections is necessary.</li> <li>All hazardous chemicals (including contaminated waste) will be stored in temporary storage areas that meet leakproof requirements.</li> <li>Before the use of chemicals, MGBFs (Material Safety Data Sheets) must be checked by the OHS Specialist and Occupational Health Physicians, and users need to be informed.</li> <li>Leak pads will be provided for point source pollution in the field (such as spilled paint, oil leaks from vehicles, etc.), and all employees will undergo leak and spill training. These trainings will be reinforced with exercises. At least one leak spill kit will be provided for each building and each mobile machine.</li> </ul>	
		<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</li> </ul>	Contractor

<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b>j) <i>Required Resources</i></b></p>	<p>of any issues with obtaining permits, water will be brought to the construction sites using tankers.</p> <ul style="list-style-type: none"> <li>Concrete will be sourced from locally licensed ready-mix concrete facilities.</li> <li>Permission will be sought from beneficiaries to use electricity for construction activities. In case permission cannot be obtained, electricity will be provided through generators procured by the Contractor. Records of electricity, fuel, and water consumption for construction activities, including generators, will be kept on the construction sites.</li> </ul>	
<p>Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings</p>	<p><b>k) <i>Community Health and Safety/Traffic and Pedestrian Safety</i></b></p>	<ul style="list-style-type: none"> <li>The site inspections for every two months will be carried out by the PIU and for daily by the Consultant to ensure and monitor that all construction activities are carried out following national laws and regulations, the requirements of the World Bank standards and the Occupational Health and Safety Plan prepared for the activity.</li> <li>PIU will review and approve the site-specific Community Health and Traffic Management Plan prepared in accordance with the Occupational Health and Safety Plan.</li> </ul>	<p>PIU Consultant</p> <p>Müşavir Yüklenici</p>

	<ul style="list-style-type: none"><li>• The Contractor will develop a Traffic Action Plan, 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>• Active traffic management will be carried out by trained and visible personnel at the construction site, if necessary, for the safe and comfortable passage of the public.</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>	Consultant Contractor

	<ul style="list-style-type: none"><li>• The surroundings and surroundings of the project site will be arranged with traffic signs and warning signs. The Traffic Action Plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the security-related measures to be taken will be specified in more detail in the Community Safety and Traffic Management Plan that the Contractor will prepare before starting work.</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 chemicals or waste storage on the site, the transfer of these wastes will be carried out by licensed carriers in a manner that does not pose a threat to public health.</li></ul>	Consultant Contractor
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		<ul style="list-style-type: none"> <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> <p>All traffic organization will be discussed and planned in coordination with the relevant authorities.</p>	
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>	<ul style="list-style-type: none"> <li>Waste streams will be collected separately, stored, and disposed of through licensed companies in accordance with national regulatory requirements.</li> <li>Waste reduction at the source will be ensured, and trainings will be provided to employees within this scope.</li> <li>Records will be kept regarding the wastes that are collected, stored, or transported.</li> </ul>	ITU Ayazağa Campus Rectorate
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>	<ul style="list-style-type: none"> <li>Relevant OHS risks will be reduced through the provisions specified in national legislation.</li> <li>Regular preventive measures and maintenance precautions for the proper functioning of the building (regular inspections and maintenance for any leaks on the roof, windows, doors, etc.).</li> <li>Keeping records related to the Main Design Project and relevant project documents for easy maintenance and renovation of any part of the building.</li> </ul>	ITU Ayazağa Campus Rectorate

Throughout the project lifecycle	<b><i>Stakeholder Feedback (Suggestion, Grievance, Opinion)</i></b>	<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 the administration. Grievances will be closed using the Grievance Closure Form provided in Annex V.</li><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 calendar days for grievances/opinions/suggestions collected under the project, and if the grievance period exceeds 15 days (the grievance period will not exceed 30 calendar days), this matter should be agreed upon between the Contractor/PIU and the complainant. At the end of the process, the applicant will be informed that the request has been closed.</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/opinions/suggestions to the Administration and/or the World Bank following the process in GM outlined in the Labour Management Procedure for SREEPB Project.</li></ul>	PIU Consultant Contractor
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		<ul style="list-style-type: none"><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><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 Retrofitting Works Site Preparation Activities</b>					
Community Health and Safety Management and Implemented Protective Measures	Around the project site	Visual Inspections Site Inspection Availability and Implementation of Active Community Health and Traffic Management Plan	At the beginning of the renovation/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 <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<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 Availability and Implementation of OHS Plan	Every working day throughout the project activities	Minimizing occupational health and safety risks for workers, especially those involved in removing asbestos-containing roof covers, through the provision of protective equipment and clothing.  Compliance with the Occupational Health and Safety Law, relevant regulations, notifications, directives, and other regulations.	<ul 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/retrofitting 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>

<b>What <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<b>Responsibility</b>
The start and completion time of Renewal/Retrofitting 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> </ul> Asbestos Removal Specialist
<b>Renovation and Retrofitting Construction Works</b>					

<b>What <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<b>Responsibility</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 <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<b>Responsibility</b>
Manufacturing, Operation and Delivery (pipeline manufacturing and construction)	Project site	Visual checks, Field Control Records, Required Tests, Control of Personnel Adequacy by the relevant authority	During the relevant manufacturing process in the project and when the manufacturing is completed	Confirming that pipeline construction is complete before delivery. To prevent a possible disaster after production and delivery to the end user.	<ul style="list-style-type: none"> <li>• Beneficiary Institution</li> <li>• Service Provider Institution OHS Department</li> <li>• Advisor</li> <li>• Contractor</li> </ul>
Employment and working conditions	Project site	Final OHS Plan Review Site Inspection Grievance Mechanism (Feedback)	Every working day during the project activities	Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars and other regulations	<ul 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>

<b>What <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<b>Responsibility</b>
Air Quality	Project sites, across access roads  Project site  Buildings near the project site	Site inspections and completion of the relevant form  PM10 measurements to be taken from the construction site and sensitive areas during the demolition process  Measurements to be conducted in case of any complaints	Every working day throughout the project activities  Measurements once during the demolition process  In case of a complaint	Minimizing dust generation to avoid negative impact on local communities and the environment  Air Quality Assessment and Management Regulation  Regulation on the Control of Air Pollution from Industrial Sources	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>

<b>What <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<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  Measurements once during the demolition process  In case of any complaints	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 <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<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	To minimize injuries,  To prevent environmental pollution,  Ensuring that inventory is kept properly.  •Waste Management Regulation	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>

<b>What <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<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	• Contractor • Consultant
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	• Contractor • Consultant

<b>What <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<b>Responsibility</b>
Vehicle and Pedestrian Safety	Project sites and access roads	Visual inspection  Using appropriate signs and signals  Site inspection  Implementation of Community Health and Traffic Management Plan	Daily	Protecting construction workers, their beneficiaries' employees, and local communities from injuries and deaths related to traffic accidents.	<ul style="list-style-type: none"> <li>• Contractor</li> <li>• Consultant</li> </ul>
Stakeholder engagement	Istanbul Technical University Ayazaga Campus	Number of Stakeholder Engagement Meeting participants (by gender distribution)  Promotional materials related to the project (announcement posters, webcasts, etc. control)	Daily	Fulfillment of grievance mechanism requirements.	<ul style="list-style-type: none"> <li>• PIU</li> <li>• Contractor</li> <li>• Consultant</li> </ul>

<p><b>Grievance Mechanism</b></p>	<p>Project site            • Buildings near the project site</p>	<p>Grievance and Suggestion Forms</p> <p>Grievance Close-out forms</p> <p>Total number of grievances (pending/resolved and broken down by gender distribution)</p> <p>Number of grievances received</p> <p>Number of resolved grievances</p> <p>Grievance Log</p> <p>Availability of announcement posters regarding the Grievance Mechanism (GM)</p> <p>The physical condition of suggestion and grievance boxes</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>

<b>What <i>parameters will be monitored?</i></b>	<b>Where <i>parameters will be monitored?</i></b>	<b>How <i>parameters will be monitored?</i></b>	<b>When <i>parameters will be monitored (measurement frequency)?</i></b>	<b>Why <i>parameters will be monitored?</i></b>	<b>Responsibility</b>
		Suggestion, condition of 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	ITU Ayazağa Campus Rectorate
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	ITU Ayazağa Campus Rectorate

## 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) specialist.</li> <li>Conducting necessary correspondence with official authorities and ensuring follow-ups.</li> <li>Supervising and ensuring compliance of Environment and Social Management Plans (ESMPs) with both national regulations and WB policies specific to the project.</li> <li>Presenting the prepared ESMPs to the WB after relevant checks.</li> <li>Establishment of a Grievance Mechanism.</li> <li>Organizing and conducting project informational meetings.</li> <li>Guiding consultants and contractors.</li> <li>Summarizing environmental and social issues related to project implementation in regular progress reports submitted to the WB.</li> <li>Coordinating and liaising with WB's inspection missions regarding the evaluation of project implementation in terms of environmental and social mitigation policies.</li> <li>Supervising the contractor's ESMP implementation and documenting necessary performance, suggestions, and future activities as part of the general project audit.</li> <li>Ensuring the contractor corrects the application if ESMP is not followed and informing the WB about the issue.</li> <li>Assisting the consultant if needed to obtain necessary permits throughout the project.</li> <li>Reporting any significant events (such as accidents, leaks, deaths, etc.) to the World Bank within 48 hours and submitting an incident investigation report with a corrective action plan within 30 working days.</li> </ul>
CONSULTANT	<ul style="list-style-type: none"> <li>Conducting a preliminary site assessment before the project starts,</li> <li>If at least one Environmental, one Social and one OHS expert is employed full-time</li> <li>Preparation of the project-specific ESMP and OHS Plan,</li> <li>Monitoring, evaluating and submitting to the Administration the activities defined as the responsibility of the contractor in the ESMP and OHS Plan,</li> <li>Ensuring the operation of the Grievance Mechanism established by the Ministry,</li> <li>Providing reports to the MoEUCC on the project and ESMP processes,</li> <li>Review and approval of Construction Methods prepared by the contractor,</li> <li>Waste Management Plan, Pollution Prevention Plan and similar sub-management plans to be prepared by the Contractor shall be reviewed and submitted to the PIU for approval.</li> <li>All sub-management plans related to Occupational Health and Safety to be prepared by the Contractor shall be reviewed and approved.</li> <li>Application to the energy distribution company for the installation of PV,</li> </ul>

	<ul style="list-style-type: none"><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, Lockout-Tagout Training (LOTO), Work Permit System Training, Conservation of Cultural Assets</i>)</li></ul>
CONTRACTOR	<ul style="list-style-type: none"><li>• Employing at least one full-time Environment, one Social and one OHS specialists,</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 appropriately.</li><li>• Updating the 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 ESMP prepared specifically for the project at regular intervals (daily, monthly, etc.),</li><li>• Preparation of the Community Safety and Traffic Management Plan</li><li>• Operating the Grievance Mechanism in compliance with GM Procedure established by the Ministry.</li><li>• Examination of the ESMP prepared by the Consultant, commitment to implement it or preparation of the Contractor ESMP by the contractor and relevant sub-management plans of the ESMP (e.g. Waste Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Occupational Health and Safety plan, etc.) and preparation of work-specific construction/application methods,</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 the SREEPB Labor Management Plan (LMP)<sup>8</sup>.</li></ul>

<sup>8</sup> [https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894\\_isgucuyonetimprosedurlerinihai\\_tr\\_20210527081102.pdf](https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894_isgucuyonetimprosedurlerinihai_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>Providing and submitting the information required for the semi-annual progress reports to be prepared by PIU.</li><li>Preparation of monthly of GM reports and submission to the Administration</li><li>Immediate reporting of any important events such as accidents, leaks, deaths, sexual harassment/abuse to the PIU.</li></ul>
CONTRACTOR	<ul style="list-style-type: none"><li>Monthly preparation of ESMP progress reports and submission for approval by the Consultant.</li><li>Weekly preparation of GM reports and submission to the Project Manager of the Consultant.</li><li>Immediate reporting of any significant events such as accidents, leaks, deaths, sexual harassment/abuse to the Consultant.</li><li>Incident/Accident and Root Cause Analysis Reports will be prepared.</li><li>Report content details are presented within the Environmental and Social Management Framework.</li></ul>

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

ITU FACULTY OF AERONAUTICS and ASTRONAUTICS FAÇADE IMAGES





FACULTY OF NAVAL ARCHITECTURE AND OCEAN ENGINEERING FAÇADE IMAGES





**ITU FACULTY OF MINES FACADE IMAGES**



**AYAZAĞA GIRLS' DORMITORY FACADE IMAGES**



FERHUNDE BİRKAŞ GIRLS' DORMITORY FACADE IMAGES





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

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

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

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS1	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 and 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</p> <p><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 the most effective and integral part of the process of assessing, managing, and monitoring the environmental and social risks and impacts of the project. In consultation with the Bank, the Borrower will develop and implement a Stakeholder Engagement Plan (SEP) proportional to both the nature and scale of the project and the potential risks and impacts.</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  
CEVRE, 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.

 REPUBLIC OF TURKEY MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE	<b>SEISMIC RESILIENCE AND ENERGY EFFICIENCY IN PUBLIC BUILDINGS PROJECT (SREEPB PROJECT)</b>
<b>GRIEVANCE / SUGGESTION FORM</b>	
ISTANBUL TECHNICAL UNIVERSITY	
ID Number	
Name	
Surname	
Province	İstanbul
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	Is compensation required?
<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:



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

Project Code	WB/CS-DESSUP-01	Building Name	İSTANBUL TECHNICAL UNIVERSITY AYAZAĞA CAMPUS
Date	7.03.2023	Start   End Time	14 : 00   15 : 00

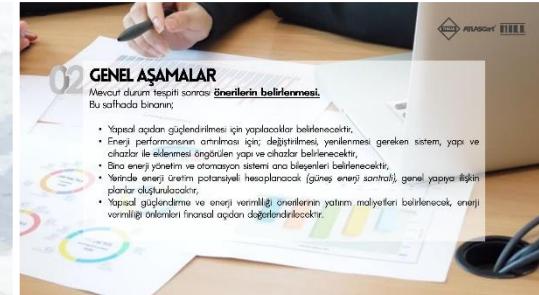
### ANNEX VI/Table 1 Meeting Agenda

START TIME	END TIME	ACTIVITY
14 : 00	14 : 10	Meeting kick-off speech
14 : 10	14 : 15	<p>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.</p> <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><b>Image 1 PRESENTATION FILE SHARED SECTIONS_01</b></p>



		<p><b>KAMU BİNALARINDA DEPREM DAYANIMI &amp; ENERJİ VERİMİLİĞİ PROJESİ</b></p> <p>Finansmanı Dünya Bankası tarafından sağlanmaktadır. Hazine &amp; Maliye Bakanlığı tarafından, Çevre Şehircilik ve İklim Değişikliği Bakanlığı tarafından yürütülmektedir.</p> <p><a href="https://kamuguclendirme.csb.gov.tr">https://kamuguclendirme.csb.gov.tr</a></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 stakeholders will be informed about the project and project processes, and how feedbacks (suggestions, grievances, etc.) will be collected, examined and answered.</li> <li>▪ 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.</li> </ul>

## Image 2 PRESENTATION FILE SHARED SECTIONS\_02



## 04 GENEL AŞAMALAR

Çevre, Şehircilik ve İklim Değişikliği Bakanlığı tarafından gerçekleştirilen İhale neticesinde belirlenen yüklenici firma (lar) tarafından hizmete girebilir projelerin müjazatlısı sureti.

- Bir önceki aşamada belirlenen ve yüklenici firmalarla teknik ve teknik planları tespit edilen; çevre, paydaş, kritik, (SG) disiplinlerde uygunlaşması, zaten. Nüfuslu bölgelerde motorlara ilişkin kalıcı gerekliliklerin değişti, aynı zamanda bu planları uygulamamına ilişkin süreçler de kapisememdir.

14 : 24	14 : 31	<ul style="list-style-type: none"> <li>▪ It was explained that the tests and studies to be carried out for the soil survey to be carried out in order to determine the ground condition and these studies will be carried out according to the characteristics of each building.</li> <li>▪ It was stated what stakeholders and employees should do for occupational health and safety.</li> <li>▪ It has been explained that the professional competence of the employees will be questioned.</li> <li>▪ Possible environmental effects related to soil survey, precautions to be taken and considered in this regard were stated.</li> </ul>
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- The possible social effects of the ground survey, the precautions to be taken and the things to be considered about it were explained.

## Image 3 PRESENTATION FILE SHARED SECTIONS\_03

## Image 4 PRESENTATION FILE SHARED SECTIONS\_04



### YAPISAL FİZİBİLİTE

#### BINA TAŞİYICI YAPISI, TAHРИBATLI / TAHРИBATSIZ MUAYENE

- Bina zeminde ortaçma çukurları olmaksızın temel gözlemi yapılacaktır.
- Donan boyutları ve konumları incelenerek, projeler ile uyumlulacaktır.
- Tahta yapı elementlerinden, uygun boyalarda göstergeler alınacaktır ve akrediteli laboratuvarlarda dayanım testlerine tabi tutulacaktır.
- Yerinde yapılan göstergeler ve laboratuvar test sonuçları raporlanacaktır.



### YAPISAL FİZİBİLİTE

#### BINA TAŞİYICI YAPISI TAHРИBATLI / TAHРИBATSIZ MUAYENE

Bina zemin/temel kontrolü için, temel kalınlığının bir miktarının incelek devri inklidir. Yoldaş (0,5m² yüzeyi olan) ortaçma çukur açılır. Ağlan çukur görsel olarak kontrol edilen temel tipi yapısı, Bileşenlik kontrol edilir ve projeler ile kıyaslanır. Ağlan çukur ve gözleme göstergeler mühendislerin kontrol edilirler. Arastırma sonrasında çukur uygun boyalarda kapılır.



### YAPISAL FİZİBİLİTE

#### BINA TAŞİYICI YAPISI TAHРИBATLI / TAHРИBATSIZ MUAYENE

Tahta yapı göstergeleri ve numaraları testi:

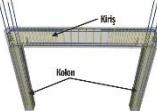
- Donan testi çukurun tahta taşının eklem konumunun içindeki yerden donanımlar (demir) konumları, dişimleri ve enliklerin belirlenmesi yapılacaktır.
- Beton ve demir numaraları olumsuz bellişimlerin saptanması.
- Numaralar enliklerin dişimlerin ve numaralarının olumsuz yüzeylerin yanına blişler.



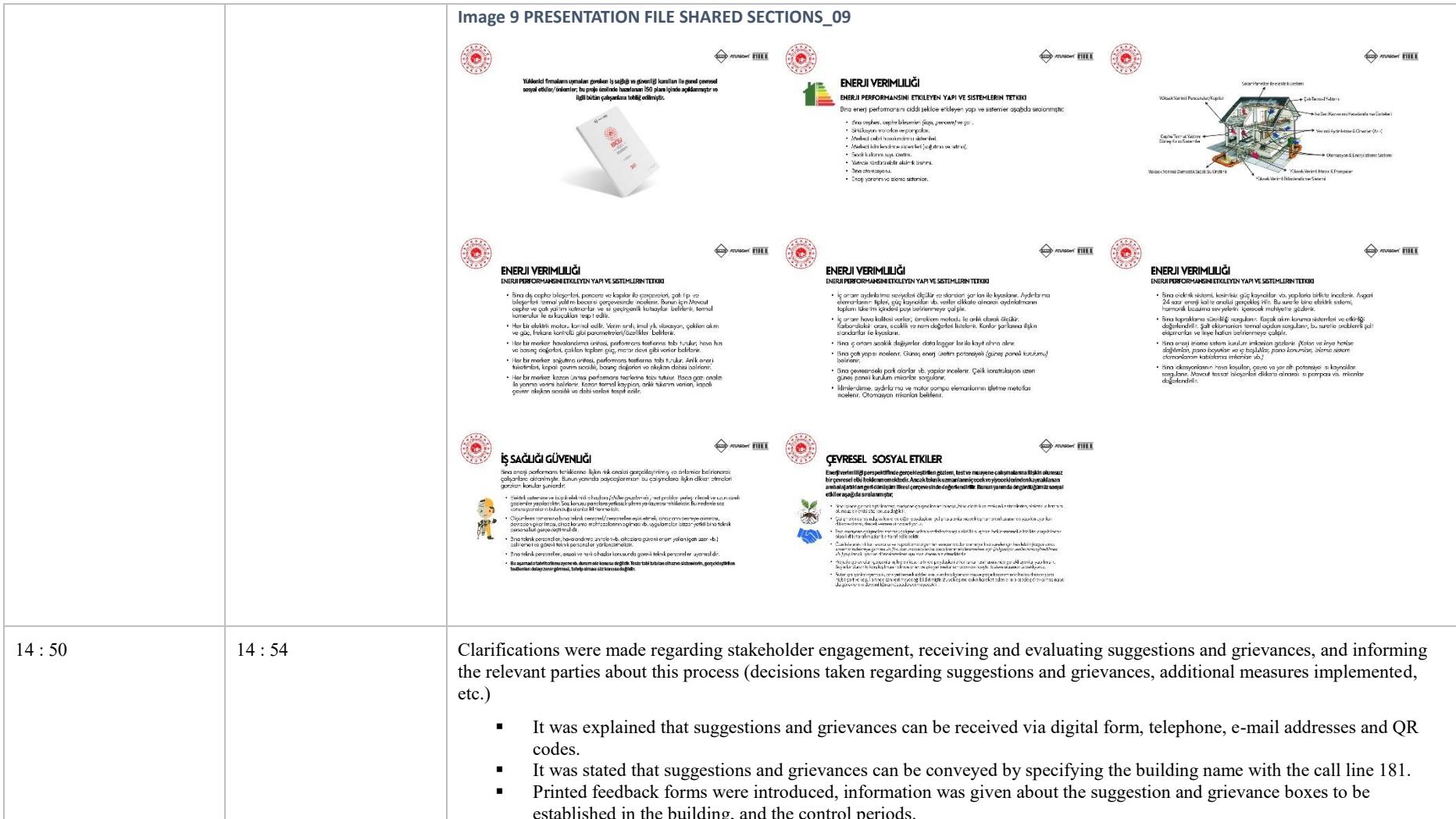
		<p>■ A statement was made about the destructive and nondestructive testing to be done after the soil survey.</p> <p>■ Information was given about the reinforcement and stirrups.</p> <p>■ Explained how to take samples.</p>
14 : 31	14 : 35	<p>■ A statement was made about the destructive and nondestructive testing to be done after the soil survey.</p> <p>■ Information was given about the reinforcement and stirrups.</p> <p>■ Explained how to take samples.</p>



		<p><b>Image 5 PRESENTATION FILE SHARED SECTIONS_05</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>YAPISAL FİZİBİLTİ</b></p> <p>BINA TAŞIYICI YAPISI TAHРИBATLI / TAHРИBATSIZ MUAYENE</p> <p>Donatı ve etriye nedir?</p> <ul style="list-style-type: none"> <li><b>Donatı:</b> Beton içersindeki gelik cubuklardır. (Beton basına karşı çok iyi çalşan bir matçomo olmasına rağmen, çökme olasılığını çok düşüktür. Çökme bölgelerindeki genetiklerdeki donatılar, bu bölgelerdeki betonlarda yer almaktadır.)</li> <li><b>Etriye:</b> kalan, kırık gibi tısvaşenlerin alemzaklarının boyama donatılarının sararı, inşaat çapının bükülmüşü olduğu odullon bir sorgı donatıdır.</li> </ul>  </div> <div style="text-align: center;">  <p><b>YAPISAL FİZİBİLTİ</b></p> <p>BINA TAŞIYICI YAPISI TAHРИBATLI / TAHРИBATSIZ MUAYENE</p> <p>Numunelelerin çıkarılması:</p> <ul style="list-style-type: none"> <li>Donatı kontrollü çan beşleren yüzeyler üzerinde; boyo, olı, sva ve beton katmanları, kırıcı matçen ile <b>kaldırılır</b>, suyu. Bu suretle kontrollü adetlik demirler ortaya çıkarılır.</li> <li>Çıkarılan donatı <b>etriye ve boyuna donatı</b> üzerindeki beton katımları ve pas, uygun boyutta menzil fırçalar kullanılarak temizlenir.</li> <li>Donatı çapının respit edildi, dayanım testi için numune filtre boyanırdanvia, sprey tay matçen ile demir çubukları lesler.</li> </ul>  </div> </div>
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>Image 6 PRESENTATION FILE SHARED SECTIONS_06</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>YAPISAL FİZİBİLİTE</b></p> <p><b>BINA TAŞIYICI YAPISI TAHРИBATLI / TAHРИBATSIZ MUAYENE</b></p> <p>Beton numuneleri; öncelikle laboratuvarlarında çekme dayanım testlerine tabi tutulur, kornici kuvvetleri belli birin ve rafadan.</p>  </div><div style="text-align: center;">  <p><b>YAPISAL FİZİBİLİTE</b></p> <p><b>BINA TAŞIYICI YAPISI TAHРИBATLI / TAHРИBATSIZ MUAYENE</b></p> <p>Kolon, kiriş nedir?</p> <ul style="list-style-type: none"> <li>Kolon: Sütun olarak da bilinen, taşıya sisteme düzey yapı elemanlarına verilen isimdir. Yapıda da ve işçilerden elçüler kuvvetleri (moment, kısma kuvveti vb.) temellerde, doluya ile zeminde otururlar.</li> <li>Kiriş: Yapıda düzeyine ve kolumnanın ontoğulları düzey taşıyalara (kalar) otoran yapı elemanıdır.</li> </ul>  </div><div style="text-align: center;">  <p><b>YAPISAL FİZİBİLİTE</b></p> <p><b>BINA TAŞIYICI YAPISI TAHРИBATLI / TAHРИBATSIZ MUAYENE</b></p> <p>Beton numuneleri; öncelikle laboratuvarlarında basma dayanım testlerine tabi tutulur, dayanıtlık seviyesi belli birin ve rafadan.</p>  </div></div>
14 : 38	14 : 40	<p>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.</p> <p><b>Image 7 PRESENTATION FILE SHARED SECTIONS_07</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>YAPISAL FİZİBİLİTE</b></p> <p><b>TAHРИBAT TEST SONRASI ONARIM</b></p> <p>Proje kapsamında gerçekleştirilen tahribat muayeneleri, temin edilen numunelefler, binaya yepseal hasar vermemiz söz konusu değildir.</p> <ul style="list-style-type: none"> <li>Demir numunelefler kavet altında kalmayan iliz ugulamadan vb. noktalardan olılmaktadır.</li> <li>Kolon sırması sonucu tıhripli olan kolların ve beton numunesi alınan bölgeler yüksek mukavelemeli dolgu harçları kullanılarak, onarılacaktır.</li> </ul>  </div> </div>

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><b>Image 8 PRESENTATION FILE SHARED SECTIONS_08</b></p> <div> </div>
14 : 45	14 : 50	<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>



		<ul style="list-style-type: none"> <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 resolution mechanism.</li> </ul> <p><b>Image 10 PRESENTATION FILE SHARED SECTIONS_10</b></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>Image 11 PRESENTATION FILE SHARED SECTIONS_11</b></p> 

## Questions and Answers

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

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

NAME SURNAME	QUESTION	ANSWER
01 -	-	-



T.C. ÇEVRE, ŞEHİRCİLİK VE  
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## ANNEX VI/Table 3 MEETING NOTES & GENERAL EVALUATION

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



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İKLİM DEĞİŞİKLİĞİ BAKANLIĞI



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## Participant List and Contact Information

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### Annex VI/Table 4 Participant List and Contact Information

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

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.



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## Stakeholder Engagement Meeting Presentation



### 03 GENEL AŞAMALAR

Proje & İhale dokümanları birlikte:

- **Çevresel Sayısal Yönetici Planı:** (Projenin genelvisi ve sayasal etkileri belirlenmesi, riskler ve risklerin bertaraf için hayatı geçirilecek eylemler tanımlanacaktır)
- **İş Sağlığı & Güvenliği Planı:** (İmaliat operasyonlarına işken iş sağlığı ve güvenliği riskleri belirlenerek ve bertaraf için alınması gereken önlemler tanımlanacaktır)
- **Paydaş Katılım Planları:** (Projenin direkt ve dolaylı etkileşenek paydaşlar ve söz konusu paydaşların proje ve proje süreçleri hakkında ne kadar nasıl bilgilendirilecektir, gerek bildirimlerin (öncesi, şikayet vb.) nasıl toplanacağı, incelemeceği ve cevaplanacağı tarif edilecektir.)

**KAMU BİNALARINDA DEPREM DAYANIMI & ENERJİ VERİMLİLİĞİ PROJESİ**

Finansmanı Dünya Bankası tarafından sağlanmaktadır, Hazine & Maliye Bakanlığı garantılığında; Çevre Şehircilik ve İklim Değişikliği Bakanlığı tarafından yürütülmektedir.

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<https://kamuguculendirmecsb.gov.tr>



### 04 GENEL AŞAMALAR

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

- Bir önceki aşamada belirlenilen ve yüklenici firmalarla tebliğ edilen planların tamamının (çevresel, sayısal, işken, şikayet, kâğıt, ISO) dspielini şekilde uygulanması zorunlu. Müşavirlik süreci sadece imadolu işkanlıklar ve genelşirlerin değil aynı zamanda bu planların uygulanmasına ilişkin sorumludur.

### PROJE Hedefleri

Bu projenin hedefi, kamu binalarında, aforanın maksimum seviyeye çıkarma ve enerji tasarrufunu iyileştirmeye odaklanmıştır. Bu çerçevede binaların:

- Yapısal olarak güçlendirilmesi,
- Enerji performansının artırılması,
- Yerinde yenilenebilir & sürdürülebilir enerji üretimi,
- Enerji yönetim sistemini teknik otomatik (Bina enerji takip ve kontrol sistemi, bina otomasyon sistemi vb.) kurulması ve etkinliğinin sağlanması,
- Proje kapsamında, paydaşlar seviyesinde farklıda sağlanması,

hedeflenmiştir.

### 03 GENEL AŞAMALAR

Belirlenen, mutabık kalınan önceliklere ilişkin proje & İhale dokümanlarının hazırlanacaktır.



### YAPISAL FİZİBİLİTE

**ZEMİN İŞİÜĞÜ:**

Aşağıdakilerin (her biri yeri en az 1 adet), jeofizik serim (her bir yeri en az 2), 30m derinlikte sondaj (2-15 ad. arası) ile zemin durumu belirlenerek ve raporlanacaktır. Her bir yeri için bu kapsama gerekçilikle test, sondaj sayları belirlenmiştir ve bina teknik birimleri ile paylaşılacaktır.









# KADEV

Kamu Binalarında Deprem Dayanımı  
ve Enerji Verimliliği Projesi

Paydaş Katılımı Toplantı Raporu

# 2023



## ÖNERİ ŞİKAYET SİSTEMİ



**Öneri ve şikayetleriniz:** İdeği ne olursa olsun, nasī kalıme alınrsa olsın bizim için değerli olduğumu bilmenizi istiyoruz. Genel etik ilkelerde uygun ilerleyiniz, önen ve şikayetlerinizden dolayı olumsuz herhangi bir durumla karşılaşmayı ocağız, eleştirmeyecəğinizi garanti ediyoruz. Öneri ve şikayetlerinizi hangi yöntemle ilənseriz: Letin (matbu, mail), internet formları ya da telefon? hepç aynı şekilde değerlendirilir, tamamı gizli bilgi statüsündedir, tərafız bir kundurdan incelenir.

Bu projə hakkında genel bilgi almak, başvurular ve soyal projə dokümanlarına erişmek ya da önerisi ve şikayetlerini bildirmek için: <https://kamugucendime.csb.gov.tr/> web sayfasını ziyaret edebilirsiniz.

## ÖNERİ ŞİKAYET SİSTEMİ



Çevre, Şehircilik ve İklim Değişikliği Bakanlığı'nın [ÇŞİB] hem telefon hem de web sitesi aracılığıyla erişilebilen bir 'Alo BT' yardım hattı vardır. Bu yardım hattı aynı zamanda çalışanlar, çözüm ortakları ve doğa bilgi zümreler için sosyal medya düzeyinde bir şikayet mekanizması isədir. ÇŞİB tarafından sağlanan tüm şəhər ve şəhər hərəkəti keşfiyyatçıları, tələvi və şikayetlər profesyonel olaraq yerləşdirilən ALO İBİ şəbəkə mərkəzindən yararlanıb. Projə Uygulama Birimi ilə mərakeşdir.

KADEV projesi işin işçiləri ve önen sahibi en əsajidə verilen farklı konulardan tələp etməni istəblər.

Əmək Məsələsi : M-101  
Telefon : 0312 596 4958  
E-Mail : [igmkaudev@cob.gov.tr](mailto:igmkaudev@cob.gov.tr)  
Şikayet Formu : <https://kaudevnet.csb.gov.tr/onest.jsp>

## ÖNERİ ŞİKAYET SİSTEMİ



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

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



İlgisi ve anlayışınız için  
teşekkür ederiz!



T.C. ÇEVRE, ŞEHİRCİLİK VE  
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI



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

Project Code	WB/CS-DESSUP-01	Building Name	İTÜ AYAZAĞA CAMPUS 2ND STAGE
Date	16.04.2024	Start   End Time	10 : 35   11 : 15

START TIME	END TIME	ACTIVITY
10 : 35	10 : 38	Meeting kick-off speech
10 : 38	10 : 40	<p>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.</p> <ul style="list-style-type: none"> <li>As of 10:40, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.</li> </ul>
10 : 40	10 : 43	<p>Information was given about the SREEPB project and its objectives.</p> <p><b>Image 7 PRESENTATION FILE SHARED SECTIONS_01</b></p>

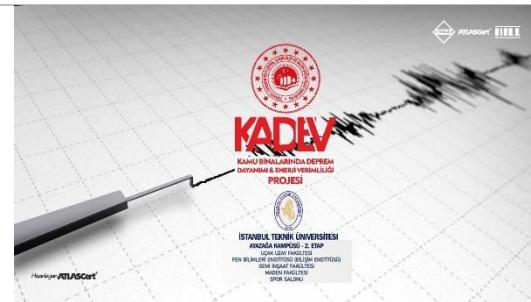


# KADEV

Kamu Binalarında Deprem Dayanımı  
ve Enerji Verimliliği Projesi

Paydaş Katılımı Toplantı Raporu

# 2023



## KAMU BİNALARINDA DEPREM DAYANIMI & ENERJİ VERİMİLİĞİ PROJESİ

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<https://kamuguclendirme.csb.gov.tr>

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

Bu sunum; **İTÜ Ayazağa Kampüsü 2. Etap**’ta yer alan **UÇAK UZAY FAKÜLTESİ, FEN BİLİMLERİ ENSTİTÜSÜ, GEMİ İNSAAT FAKÜLTESİ, MADEN FAKÜLTESİ** (39.808,98 m<sup>2</sup>) yapısal güçlendirme ve enerji verimliliği odaklı İyleştirme çalışmaları hakkında bilgi verecektir.

10 : 43

10 : 48

- The renovations to be carried out for the structural retrofitting identified as a result of the feasibility study have been explained in detail. (Structural system reinforcement, fine works, etc.)



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## Image 8 PRESENTATION FILE SHARED SECTIONS\_02



### Yapım Aşaması

Ekit notasyonu: yapısal güçlendirme ve enerji verimliliği dolâlı renovasyonlar bârlâmış ve projelendirilmişdir. Söz konusu renovasyonlar, aşılıda ana başlıklar halinde bârlâmıştır.

#### Yapısal Güçlendirme

- Masaüstü yapısal güçlendirme (kayıtlı, tasarım, inşaat)
- Yeni yapısal teknolojiler (Beton, betonarme, çelik, çelikbeton)

01

#### Enerji Verimliliği

- Genel enerji verimliliği
- Isıtma
- Soğutma
- Elektrik enerji verimliliği (genler)
- Yerel enerji teknolojileri (genler, turbinler, ısınma)
- VEV (verimlilik)
- Aşılıda enerji verimliliği (genler, turbinler, ısınma)
- Yerel enerji teknolojileri (genler, turbinler, ısınma)
- Masaüstü enerji verimliliği (genler)



### Yapısal Güçlendirme

#### Taşticı Sistem Güçlendirme

Güçlendirme perdeleri ve kolon mantarları yapacak akışkanlı duvarlar şartnameye in ist karar başnacak şekilde, balyoz ve kruv manfetyle yükləyəcək. Duvar yikımı öncesi zərər görən sırı barındıran; kəp, pencere, vətrif, terpi, elektrik ve məkanik təsirat ekspansion səküleçlər və faydalılılı kolun tərəfindən göstərilən şəhərlərdən geçməyi mühafizə edəcəklər.

01



### Yapısal Güçlendirme

#### Taşticı Sistem Güçlendirme

Söküm işləməndən sonra güçlendirme elementlərinə təmələrə bağlanması arənciyə pəncə və kolon məntəsü çoxşutun aylaması üçün subəsan betonun kəlməsi və teməl işi dolğunun hazırlımı gərdəməkdir. Bu kəm və kələmələr el ilə (kruv və yordamla) və/veya yapı işçisine girebən kiçik mənimlər (bələcəv) işçəklişlərdir.

01



### Yapısal Güçlendirme

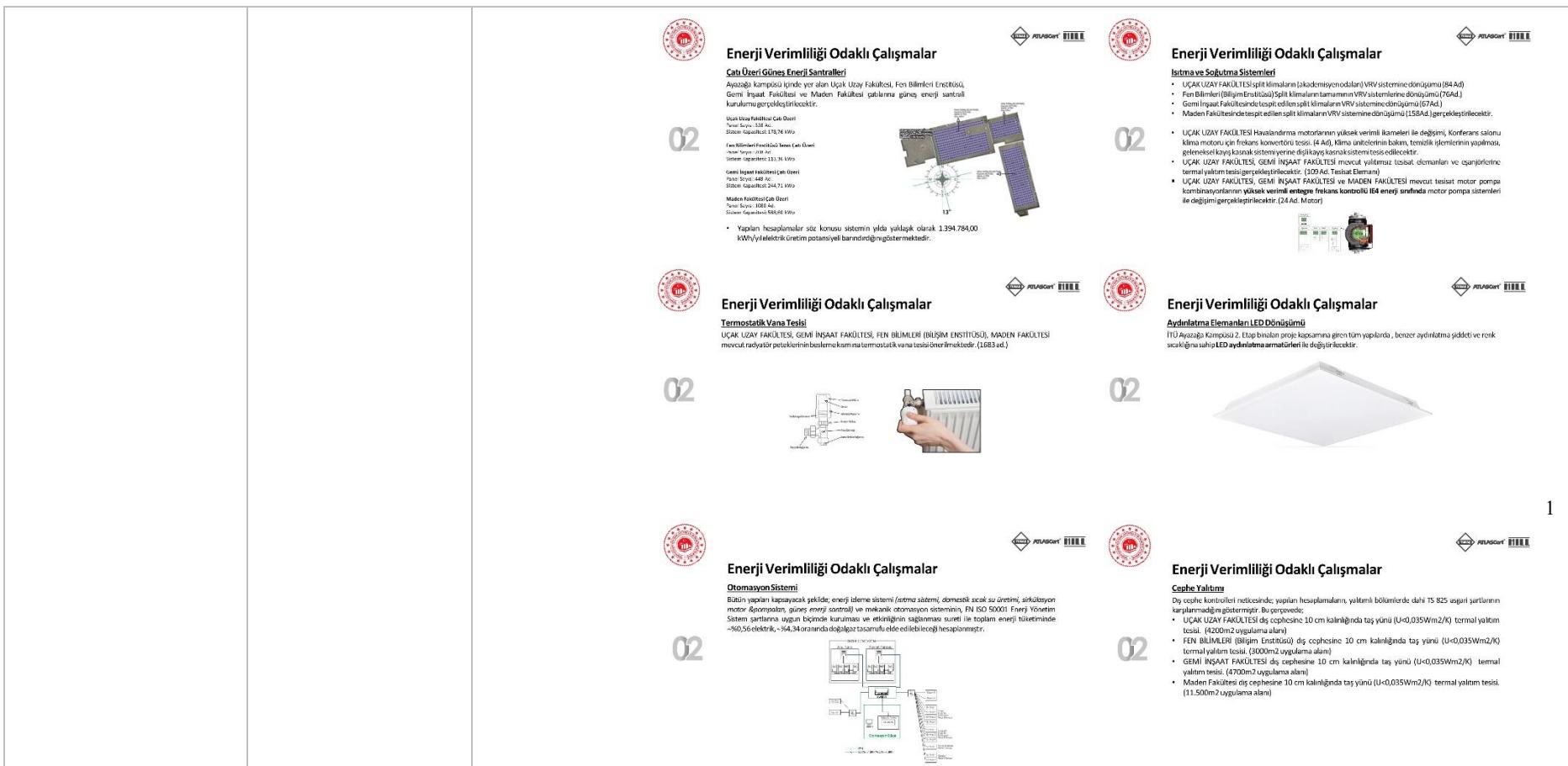
#### Taşya Sistem Güçlendirme

Kəm və kələmələr təmələndən sonra mevcut kolon, kruv və təmələrə ankraj cubuldan çıxılır. Ankraj deliklər detay projelerində ölçülər uyğun olaraq delikli matkapları mevcut elementlərə delik açılır, delikin hava kompozisi ilə təmələnəsi, epoksi yapışmanın delik içərisinə sıxlaması və öncən hazırlanın ankraj deməlinin delik içərisinə səkülməsi şəhərləndə yapılır.

01



		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="text-align: center;">  <h3>Yapısal Güçlendirme</h3> <p><b>Taşınıcı Sistem Güçlendirme</b></p> <p>Antkajı malatları ile beraber güçlendirme donanımının düzeneşimi işlere başlanacaktır. Donatı numune kontrolleri sonrası Plywood kalıplar kapatsızlık bir üst kat düzemesinden ajanın delikten veya kırıcı ağızla da denilen kalıptan mal edilen hünler içerisinde "kendiliğinden yerlesen beton" (ince ağızal), siper ağızlanlığına katkılabilirler.</p> <p>01</p>  </div> <div style="width: 45%;"> <div style="text-align: center;">  <h3>Yapısal Güçlendirme</h3> <p><b>İnce İşler</b></p> <p>Katla işçinin tamamlamasının ardından onarım işlere geçilir. Güçlendirme perdelerinin iç ve dış yüzeylerin sva, boyalı, yaltam vb. uygulamaları, bozulan zeminlere tessile betonu ve kaplama malzemesi dizerilemeleri, elektrik testleri ve mekanik testler montajın ve gerekliyse kapı pencere malatları yapılıbrak güçlendirme işlerini tamamıları.</p> <p>01</p>  </div> </div> </div> </div>
10 : 48	10 : 51	<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>▪ Façade Insulation</li> <li>▪ Terrace Roof Insulation</li> <li>▪ Exterior Door Replacement</li> </ul> </li> </ul> <p><b>Image 9 PRESENTATION FILE SHARED SECTIONS_03</b></p>



		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Enerji Verimliliği Odaklı Çalışmalar</b></p> <p><b>Teras Çatı Yalıtımı</b> Yerinde yapılan inceleme neticesinde Gemi İnşaat Fakültesi'nde çatıda yapılan hesaplamalar mevcut termal yalıtmının TS 825 şartlarını karşılamadığını ortaya koymaktadır. Bu nedenle;</p> <ul style="list-style-type: none"> <li>GEMİ İNŞAAT FAKÜLTESİ teras çatıya 10 cm XPS (<math>\lambda=0,031\text{Wm}^{-2}/\text{K}</math>) termal yalıtmalı tesis, metal kemer çatının 10 cm termal yalıtma şıhri hazır çatı pançetleri ile değiştirilmesini yapacaktır.</li> </ul> <p style="text-align: center;">02</p>  </div><div style="width: 45%;"> <p><b>Enerji Verimliliği Odaklı Çalışmalar</b></p> <p><b>Dış Kapı Değişimi</b> Tek camlı ve yâlınâz gördükçe kapıların aynı ölçüde termal yalıtımlı (Camlar 4x1x4 olacak) kâmederi ile değiştirilmesi gerekmektedir.</p> <ul style="list-style-type: none"> <li>Üzak Uzay Fakültesi 5-6-7-8-9 nolu kapılar (22m<sup>2</sup>)</li> <li>Gemi İnşaat Fakültesi 2-4-5 nolu kapılar (15m<sup>2</sup>)</li> <li>Maden Fakültesi 2-4-5-6-7-8-9-10-11-12-13-14-18 nolu kapılar (50m<sup>2</sup>)</li> </ul> <p style="text-align: center;">02</p>  </div></div>
10 : 51	10 : 54	<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



İş Sağlığı Güvenliği



İş Sağlığı Güvenliği

Gırgınlanan tarama İŞ SAĞLIĞI GÜVENLİĞİ PLANI içinde belirlenen kılavuz konusuya donanmanın disiplinli şekilde, kulumcağız yüklenmelidir. Söz konusu donanmanın uygun şekilde tayinlere tularımların yapılmasına izin verilmeyecektir.

Ölmenekârılık konusunu onaylıyoruz;

- Barış - TS EN 397+4AL
- Külek İkinci - TS EN 352-2
- Konusun Üzerinde - TS EN ISO 15121-3
- Genel Arama İkinci - TS EN ISO 21420
- İkinci Aşırı - TS EN ISO 20347
- Yarım Yüzük - TS EN ISO 140
- Parçaş Tüp Emniyeti - Kemen - TS EN 361 (Sadece yüzükte çalışan personeller)



İş Sağlığı Güvenli

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



	<p>▪ 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.</p> <p><b>Image 10 PRESENTATION FILE SHARED SECTIONS_04</b></p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <h3>İş Sağlığı &amp; Güvenliği</h3> <p>Yapılan süreçte işçilerin iş sahibi ve güvenliği planları hazırlanmıştır. Yükleme firması:</p> <ul style="list-style-type: none"> <li>Tarım mecaz hazırlayan İŞ SAĞLIĞI GÜVENLİĞİ PLANI deontolojisinde, sorumluluğu botten operatör kapar mahiyettedir. İŞ SAĞLIĞI GÜVENLİĞİ PLANI ve Risk Analizi hazırlamış ve Mıgavre onayına sunması zorunlu. Ancak söz konusu plan, anıtların iş güvenliği sorumlusu başlıcalarla paylaşılmalıdır.</li> <li>Mobil vnc, komprektör vb. iş makinelerein tamamının periyodik muayene raporlarıının temin edilmesi olmas ve makinelere içinde hazır bulundurulması zaruridir. Söz konusu makinelere, yetkililer operatörler tarafından kullnabilir. Operatör yetkilileri hazır bulundurulması ve saha kontrolleri, denetimleri esnasında isteytilmiş İSG uzmanının talepleri doğrultusunda beyan edilebilirler.</li> </ul> <p>Paylaşılannan bittiğinde işçilerin dikkat etmeleri gereken konular şunlardır:</p> <ul style="list-style-type: none"> <li>Mobil vnc, komprektör vb. iş makinelerein tamamının periyodik muayene raporlarıının temin edilmesi olmas ve makinelere içinde hazır bulundurulması zaruridir. Söz konusu makinelere, yetkililer operatörler tarafından kullnabilir. Operatör yetkilileri hazır bulundurulması ve saha kontrolleri, denetimleri esnasında isteytilmiş İSG uzmanının talepleri doğrultusunda beyan edilebilirler.</li> </ul> </div> <div style="text-align: center;">  <h3>İş Sağlığı Güvenliği</h3> <ul style="list-style-type: none"> <li>Suhada kılavuzları Tırta elektrikli elektrikli motorlu elektrikli motorlu makinelerin güvenliği gösteren PAT testleri yapmış olmalıdır. Suhada kılavuzları Tırta elektrikli elektrikli motorlu makinelerin güvenliği gösteren PAT testleri yapmış olmalıdır.</li> <li>İşyerinde Mevkii İBB Tırta elektrikli elektrikli motorlu makinelerin güvenliği gösteren PAT testleri yapmış olmalıdır.</li> <li>Bütün çalışanlar şereflendirme töreninde çalışan bittiğinde konuya uygulamalarını yapılmaları ve etkinliklerde kullanılmaları.</li> <li>Bütün çalışanlar şereflendirme töreninde çalışan bittiğinde konuya uygulamalarını yapılmaları ve etkinliklerde kullanılmaları.</li> <li>Yüksekte çalıçak personellerin Tırta elektrikli elektrikli motorlu makinelerin güvenliği gösteren PAT testleri yapmış olmalıdır.</li> <li>Bütün çalışanları İKEİ - Eskalette Kilitle Emniyyete Alırmıza Eğitimde almış olmaları gereklidir.</li> <li>Çalışanları İŞ SAĞLIĞI GÜVENLİĞİ PLANI içinde belirtilen tarihlerdeki iş güvenliği eğitimlerini almaları onarımın anınlarda.</li> <li>İş Belediyesi TS EN 12811-1 standartı şartları karşılaması esastır. Söz konusu iş iadeklerinde çalıçak bütün personelleri yüksekte çalıçak eğitimi almış olmalıdır, parçalı tıp emniyyet kemerini ve dalgıç engileyici ekşemaları kullanılmamalıdır.</li> <li>Kemerini circa 5-6 saniye aralıklarla 15-20 saniye aralıklarla TIRAFİK KİYİM PLANINA uygun bir şekilde kullanmalıdır.</li> <li>Yükleme firması bu sayfaya uygulu deontoloji acı durum eklem planları girilmeli ve bittiğinde paylaşılmalıdır.</li> </ul> </div> <div style="text-align: center;">  <h3>İş Sağlığı Güvenliği</h3> <p>Çalışanların tamamı İŞ SAĞLIĞI GÜVENLİĞİ PLANI içinde belirtilen kışılık koruyucu donanımın disiplini şekilde kullanılmakla yükünlür. Söz konusu donanımın uygun şekilde tozmayıyan/kullnmayanın çalışımlarınının verilmeyecektir.</p> <p>Ornek kışılık koruyucu donanımlar:</p> <ul style="list-style-type: none"> <li>Bart - TS EN 397 AL</li> <li>Kulak İkinci - TS EN 352-2</li> <li>Kollar - TS EN 397 AL 1016321-3</li> <li>İzdir Ampı - TS EN 20204/1</li> <li>İş Ayakkabı - TS EN 20204/4</li> <li>Yarım Yüz Maskesi - TS EN 140</li> <li>Parça Tıp Emniyyet Kemer - TS EN 361 (Sadece yüksekte çalıçak personeller)</li> </ul>  </div> <div style="text-align: center;">  <h3>İş Sağlığı Güvenliği</h3> <ul style="list-style-type: none"> <li>Adlı durumlarda çalışanların toplanması, deprem riski de dikkate alınarak belirtilmiş ve vizeyle planlar içinde gösterilmiştir.</li> </ul>   </div> </div>
10: 54	10: 56	<p>▪ Information was given about the traffic action plan.</p>

- Health & Safety Organization was explained.

## Image 11 PRESENTATION FILE SHARED SECTIONS\_05



	<ul style="list-style-type: none"> <li>▪ Health &amp; Safety Organization was explained.</li> </ul> <p><b>Image 11 PRESENTATION FILE SHARED SECTIONS_05</b></p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p><b>Trafik Eylem Planı</b></p> <p>▪ Kampüsün araç kullanımıyla ilişkili sınırların <b>İŞ SAĞLIĞI GÜVENLİĞİ PLANI</b> içinde belirtilmiştir.</p>  </div> <div style="text-align: center;">  <p><b>Sağlık &amp; Güvenlik Organizasyonu</b></p>  <pre> graph TD     GM[Muğan TÜRK İŞ SAĞLIĞI BİRLİĞİ] --&gt; AS[AS İŞ SAĞLIĞI]     GM --&gt; HSO[HSO İŞ SAĞLIĞI]     GM --&gt; HSC[HSO İŞ SAĞLIĞI KOMİTESİ]     AS --&gt; ODA[Oda İcra Kurulu]     AS --&gt; HSO     AS --&gt; HSC     ODA --&gt; HSO     ODA --&gt; HSC     HSO --&gt; HSO     HSC --&gt; HSO     HSO --&gt; HSO     HSO --&gt; YK[Yüklenen]     HSO --&gt; PM[Personel Mükemmeliyeti]     YK --&gt; PM     PM --&gt; HSO     PM --&gt; TS[Toplum Sosyalizasyonu]     TS --&gt; HSO   </pre> </div> </div>
10 : 56	11 : 00	<ul style="list-style-type: none"> <li>▪ The environmental impacts of the work to be carried out are explained.</li> </ul>

## Image 12 PRESENTATION FILE SHARED SECTIONS\_06



### Çevresel Etkiler

- Proje selüloz İTÜ Anadolu Kampüsü alanında yer almaktadır. Kampüs içinde yer alan diğer binaların İngiliz sırnamesinden doğan etkileşimlerin söz konusu değildir. Faaliyetlerin çevresel etkisi aşağıda gösterilmiştir.



### Çevresel Etkiler

- İnsaf parklarından sonra, bölgede hâlbazarda mevcut olan kanalizasyon, elektrik ve su şebekeleri kullanılmaktadır.



### Çevresel Etkiler

- Proje kapsamında, Müşavirin, Yüklenici firma personellerine vereceği eğitimler sırasında, yüklenici firmaların kapasitesinin gelişmesi beklenmektedir. Bu eğitimler yapıldıktan sonra:



- Çevre ve Sosyal Etüder**
- Çevre Yönetimi**
- Çevresel Durumuna Tepki**
- Enerji Verimliliği**
- Sıvıyat Yönetimi** (SM)



### Çevresel Etkiler

#### Atık Yönetimi

##### İnsaf Hizmetleri Atıkları:

- Sıkım hizmetleri sonucunda binaya alt zeminde malzeme olusmasının durumunda bina yönetimi ne plan matemini teslim edildiğine dair belge alacaktır.



### Çevresel Etkiler

#### Atık Yönetimi

##### Tehlikeli Atıklar:

##### İnsaf Atıkları:

##### Çevre Atıkları:

##### Ortak Atıklar:

##### Todluk Atıkları:

##### Ortak Atıklar:

##### İnsaf Atıkları:

##### Çevre Atıkları:

##### Ortak Atıklar:

##### Todluk Atıkları:

##### Ortak Atıklar:

##### İnsaf Atıkları:

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##### Todluk Atıkları:

##### Ortak Atıklar:

##### İnsaf Atıkları:

11 : 00	11 : 02	<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><b>Image 7 PRESENTATION FILE SHARED SECTIONS_07</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>Sosyal Etkiler</b> Paydaşlarımıza ait olarak istedığımız hususlar şunlardır:</p> <ul style="list-style-type: none"> <li>• Söz konusu çalışmaları, bina dayanımının olumsuz etkilenmesi söz konusu değil.</li> <li>• Güçlendirme ve renovasyon çalışmalarında, kullanım ve diğer paydaşların çalışma salahına yarayan teknolojilerin kullanılmasına yönelik çalışmaların yapılması isteniyor.</li> <li>• Güçlendirme ve renovasyon çalışmalarında, çalışma salahının sahibi olan işçiler, görevli personeller tarafından taraflanıp teknik bilgilerin传递 etmesi söz konususunda şıkayet etmek istenmemektedir.</li> <li>• Projece görevi alın çalışmaların, hiç bir nedenle paydaşları ile tartışılması hususunda gerekliliyin varlığı kabul edilmektedir. Böyle bir durumda karşılıklı anlaşmalarla şıkayet etmek istenmemektedir.</li> <li>• Birçok şirketin aynı malik, aynı yetkililerin yönetimde çalışmakta ve projelerde de birlikte çalışmaktadır. Bu durumda işbirliği söz konususunda şıkayet etmek istenmemektedir.</li> <li>• Birçok şirketin aynı malik, aynı yetkililerin yönetimde çalışmakta ve projelerde de birlikte çalışmaktadır. Bu durumda işbirliği söz konususunda şıkayet etmek istenmemektedir.</li> </ul> </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>Sosyal Etkiler</b> Proje kapsamında, Mugavine Yüklenici personeli ve verençeli eğitimler sonucunda yüklenici firmaların kurumsal kapasitesinin iyileşmesi beklenmektedir. Bu eğitimlerin aşamasında katıldıkları bilinmektedir.</p> <ul style="list-style-type: none"> <li>• Çevresel ve Sosyal Etkiler</li> <li>• İklim Değişikliği İlgilendirme Faaliyetleri</li> <li>• Sosyal Mədəniyyət (SM)</li> <li>• Çoxşəfli / Çoxşəfli Temeli İl Şədət / Çinsel Səmərə / Çinsel Saldırı / Çinsel Taciz</li> <li>• Dərəcənöv Krafatları</li> <li>• Tərhi Mərasim Koruması</li> </ul> </div> <div style="text-align: center;">  </div> </div>
11 : 02	11 : 04	<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><b>Image 8 PRESENTATION FILE SHARED SECTIONS_08</b></p>





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## Questions and Answers

ANNEX VII/Table 2 QUESTION & ANSWER LIST

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



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İKLİM DEĞİŞİKLİĞİ BAKANLIĞI



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

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



T.C. ÇEVRE, ŞEHİRCİLİK VE  
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI

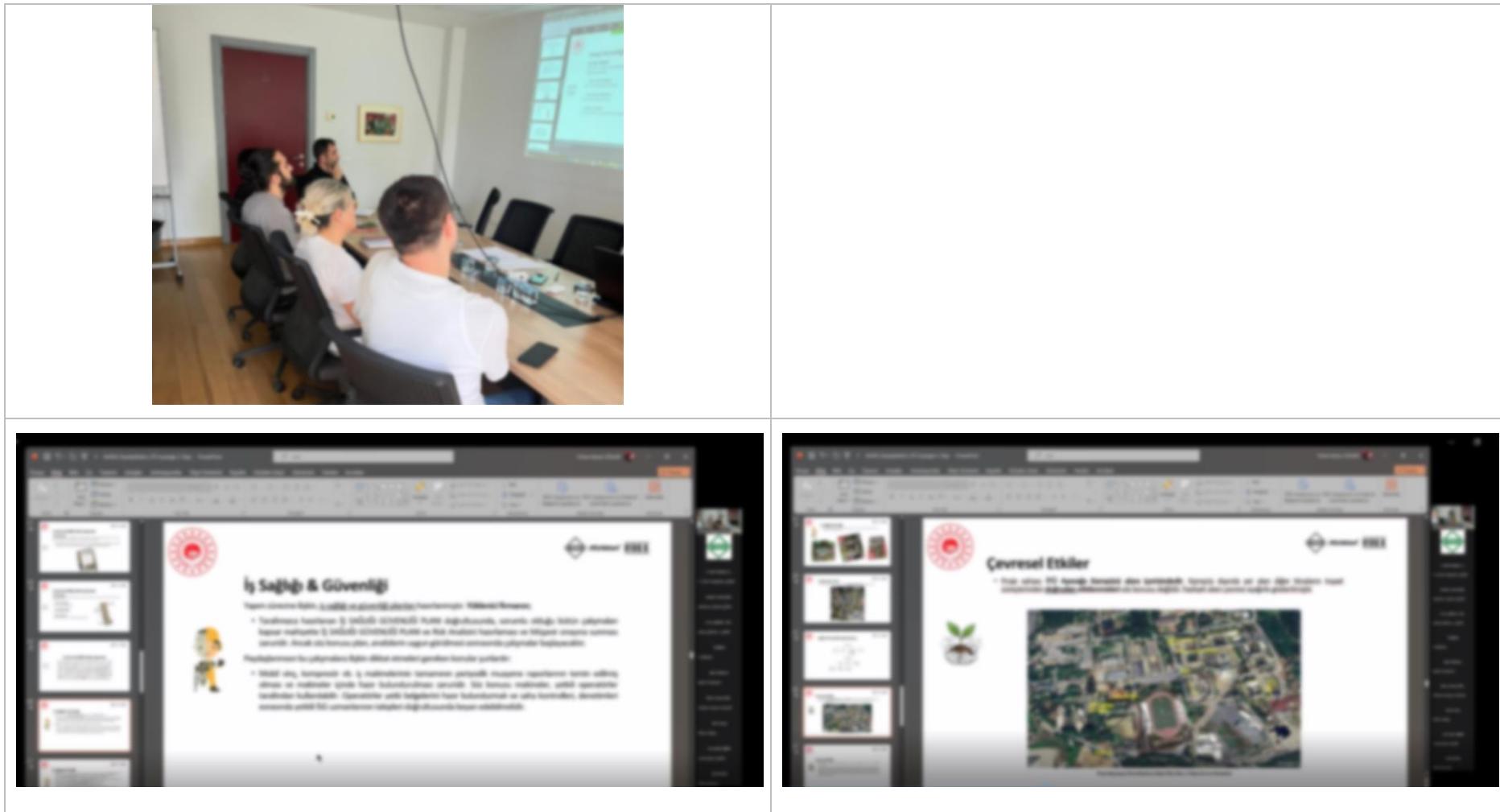


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## ANNEX VII/Table 4 MEETING VISUALS



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## Participant List and Contact Information

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

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

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.



T.C. ÇEVRE, ŞEHİRCİLİK VE  
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI



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# Stakeholder Engagement Meeting Presentation



## KAMU BİNALARINDA DEPREM DAYANIĞI & ENERJİ VERİMİLİĞİ PROJESİ

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



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<https://kamuguclendirme.csb.gov.tr>



### Yapım Aşaması

Etüt neticesinde; yapısal güçlendirme ve enerji verimliliği odaklı renovasyonlar belirlenmiş ve projelendirilmiştir. Söz konusu renovasyonlar, sağıdada başlıklar halinde belirlenmiştir:

#### Yapısal Güçlendirme

- Kereye çap asansör aparatlarının ekstra sistemlerin
- Yerleşim yerlerindeki esnek duvarlar, çatılar, kemerler, kemerlerin

#### Enerji Verimliliği

- Çevre ve enerji temelli sistemler
- Kapalı altyapı ve
- Enerji verimliliği teknolojileri
- Yerel kaynak (tepki reaksiyon)
- Yerel kaynak (tepki reaksiyon)
- Aşırı kaloriferlerin (tepki reaksiyon) ve deliklerin (tepki reaksiyon) (tepki reaksiyon) (tepki reaksiyon)
- Ortak enerji paylaşım sistemleri (tepki reaksiyon) (tepki reaksiyon)
- İklim değişikliği (tepki reaksiyon) (tepki reaksiyon)
- Yerel enerji kaynakları (tepki reaksiyon) (tepki reaksiyon)

### Yapısal Güçlendirme

#### Tasito Sistem Güçlendirme

Sıkım işleminden sonra güçlendirme elemanlarının temelere bağılmamış amaryalı perde ve kolon mantosu çevrelerinin apılması için subasman betonunun kırılması ve temel içi dolguğunun kazılması gerekmektedir. Bu kırıv ve kazi işlemleri el ile (kno) ve balyon yardımıyla) ve/veya yapı içerişine girebilen küçük makinelere (bokscat vb.) gerekliliklerine göre.



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

Bu sunum; Karamürsel-Gazanfer Bileğe Öğrenci Yurdu (12.647m<sup>2</sup>) yapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmala hakkında bilgi verecektir.



### Yapısal Güçlendirme

#### Tasito Sistem Güçlendirme

Güçlendirme perdeleri ve kolon mantoları yapılacak akslardaki duvarlar işaretlenerek en öst kattan başlanarak şekilde, balyor ve kincı marifleye yapılacak. Duvar yıkımı önceki zarar görme sırkı barındırır; kap, pencere, vitrifiye, tozgâh, elektrik ve makinik tesisat ekşimlarından söylemeyecek ve Fıydaları kurum tarafından gösterilen alanlarda geçici muhafaza edilecektir.



### Yapısal Güçlendirme

#### Tasito Sistem Güçlendirme

Ankraj imalatları ile herber güclendirme donanımının dikmesi işlerine başlanacaktır. Donanım numune kontrolleri sonrası Plywood kalıplar kapatarılır, bir kat kat düşmesinden açılan delikten veya kus ağız da denilen kalıplar mal edilen hunkur içersinden kalıp içersine "kendiliğinden yerleşen beton" (ince agregat, siper aksanlaştıracak beton) dökülür.



01



### Yapısal Güçlendirme

#### Tasito Sistem Güçlendirme

Sıkım işleminden sonra güçlendirme elemanlarının temelere bağılmamış amaryalı perde ve kolon mantosu çevrelerinin apılması için subasman betonunun kırılması ve temel içi dolguğunun kazılması gerekmektedir. Bu kırıv ve kazi işlemleri el ile (kno) ve balyon yardımıyla) ve/veya yapı içerişine girebilen küçük makinelere (bokscat vb.) gerekliliklerine göre.

01

01



## Yapısal Güçlendirme

### İnce İşler

Kabı ınsaatı tamamlanmasının ardından onarım işlerine geçti. Güçlendirme perdelerinin iç ve dış yüzeylerinin sva, boyalı vb. uygulanması, bızdan zeminlere tesiye betonu ve kaplama malzemeleri düzlenmesi, elektrik testisi ve mekanik testler montajları ve gerekçiosu kapı pencere imalatları yapılarak güçlendirme işleri tamamlandı.

**01**

## Enerji Verimliliği Odaklı Çalışmalar

### Cat Üzeri Güneş Enerji Santralleri

Kırma çatı üzeri solar paneller ile elektrik üretimi sağlanacaktır. (180 Ad. Panel | 99,10kWc, Üretim Kapasitesi)

**02**

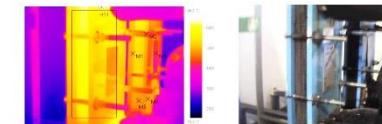
Yapılan hesaplarla söz konusu sistemin yıllık yakıtlık okurak 117.921,40 kWh/yıl elektrik üretimi potansiyeli barındırduğu göstermektedir.



## Enerji Verimliliği Odaklı Çalışmalar

### İs Merkezi

Dometik su ısıtmasında kullanılan SWEP MARKA GL13 MODEL plakalı eşanorlere (1,1 m<sup>2</sup> uygulama alan) ve termal açıdan yarışmaz olduğu tespit edilen 62 adet ısıtma elementi termal yalıtmak tosası.

**02**

## Enerji Verimliliği Odaklı Çalışmalar

### Motor & Pompalar Değişimi

Tüm motor ve pompaların yerini tıpkı hizmet hizmetinde verilen 11 adet motor & pompaların IE4 sınıfı yüksek verimli integratif frekans kontrollü motor & pompalar sistemi ile değiştirilecektir.

Motor ve tıpkı sistemin IE4 sınıfı yüksek verimli motorlar, dijital kaynak sistemi ile değiştirilmesi ve her bir motora frekans kontrolü tesis edilecektir. Altı durumda havalandırma & klima ünite motor & pompaların tansiyonu IE4 sınıfı entegre frekans kontrollü motor & pompalar sistemi ile değiştirilecektir.

**02**

## Enerji Verimliliği Odaklı Çalışmalar

### Termostatik Vana Tesisi

Proje kapsamında giren tüm yapıların radyatör peteklerinin tamamına köşe tipi termostatik vana tesis edilemektedir. (202+42/20% Yedek)

**02**

## Enerji Verimliliği Odaklı Çalışmalar

### Aydınlatma Elemanları LED Dönüşümü

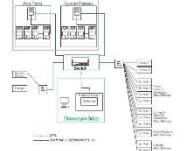
LED dönüşümü hizmeti gerçekleştirilecektir. E27 duylu dairesel armatürlerin, 800lm dairesel (downlight) sva ışılı LED aydınlatma armatürlerine değiştirilecektir.

**02**

## Enerji Verimliliği Odaklı Çalışmalar

### Otomasyon Sistemi

Kurumsal-Çevre Rapor Yurdunu (Dünyak Enerji Yönetimi Sistemi), domestiç su ısıtımı, tıpkı motor & pompalar, olağan enerji kontrolü ve mekanik otomasyon sisteminin, EN ISO 50001 Enerji Yönetimi Sistemi şartlarına uygun biçimde kurulması ve etkinliğinin sağlanması sureti ile toplam enerji tüketiminde ~K0,27 elektrik, ~K3,90 oranında doğalgaz tasarrufu elde edilebileceği hesaplanmıştır.

**02**

## Enerji Verimliliği Odaklı Çalışmalar

### Cephe Kaplama

Dış cephe kontrolleri neticesinde yapılan hesaplamalar ile TS 825 asırgı şartlarının karşılandığı göstermektedir. Bu çerçevede 10cm kalınlığında U=0,035W/m<sup>2</sup>/K şartını sağlayan tıpkı yuva cephe kaplaması tesis edilecektir. (Uygulama yüzey alanları: 5.140m<sup>2</sup>)

**02**

## Enerji Verimliliği Odaklı Çalışmalar

### Cat Yalıtımları

Yerde yapılan inceleme neticesinde çatı yapılan hesaplamalar mevcut temalı yalımlı TS 825 şartlarını karşılamadığı ortaya koymaktadır. Bu çerçevede kullanılmayan kırma çatı arasındaki mevcut mineral kaplamaları sıkılaşması ve yerine, bir yüzü alüminyum folyo kaplı camını çatı sitemi (8cm kalınlıkta, 0,035 < isıl ıkerlenliği < 0,040W/(m.k) olan) serilmesi (190m<sup>2</sup>) önerilmektedir.

**02**



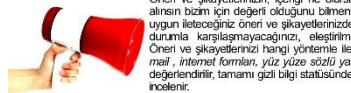




### Öneri Şikayet Sistemi

Öneri ve şikayetleriniz; içeriği ne olursa olsun, nasıl kaleme alınrsa alınır bizim için değerli olduğunuzu bilmemiz istiyoruz. Genel etik ilkelerde uygun iletceğiniz önerileri ve şikayetlerinizden dolayı olumsuz herhangi bir durumla karşılaşmamayı garantisi, eleştirlenmeyeceğinizi garanti ediyoruz. Öneri ve şikayetleriniz hangi yöntemle iletişimde (e-mail, şikayet kutuları, mail, internet formuları, yüz yüze veya telefon) hepsi aynı şekilde değerlendirilir, tamamı gizli statüsündedir, taraflı bir kurul tarafından inceleyen.

Bu proje hakkında genel bilgi almak, çevreSEL ve sosyal proje dokümanlarına erişmek ya da öneri ve şikayetlerini bildirmek için; <https://kamuguclendirme.csb.gov.tr> web sayısını ziyaret edebilirsiniz.



### Öneri Şikayet Sistemi

Cevre, Şehircilik ve İklim Değişikliği Bakanlığının (ÇŞİDB) hem telefon hem de web sitesi aracılığıyla erişilebilen bir 'Alo181' yardım hattı vardır. Bu yardım hattı aynı zamanda çağrısan, çözüm ortakları ve daha geniş zümreler için bakımlik düzeyinde bir şikayet mekanizması işlev görür. ÇŞİDB tarafından sağlanan tüm çevre ve şehir hizmetleri ile ilgili soru, talep ve şikayet profesyonel olarak yönetilen ALO 181 çağrı merkezi tarafından yanıtlanmaktadır, ya da Proje Uygulama Birimine itimlektür.

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

Çağrı Merkezi : Alo 181  
Telefon : 0312 586 4858  
E-Mail : [ygmcadev@csb.gov.tr](mailto:ygmcadev@csb.gov.tr)  
Şikayet Formu : <https://kadeveneri.csb.gov.tr/onesti.jpg>



### Öneri Şikayet Sistemi

Internet üzerinden şikayet formunu hemen erişim için lütfen yandaki kodu telefonunuzda okutun.

(Bu eylem telefonunuzda QR kod uygulaması omadır. Söz konusu uygulama yoksa, herhangi bir internet tarayıcısında yüklenen play/okuma butonu kullanın.)



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