



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

ISTANBUL UNIVERSITY **AVCILAR CAMPUS** RECTORATE ADMINISTRATIVE BUILDING **CENTRAL LABORATORY** CULTURAL CENTER

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

APRIL 2024



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SREEPB | Istanbul University-Cerrahpaşa-Avcılar Campus-Rectorate Administrative Building, Cultural Center, Central Laboratory

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Abbreviations

BP	Bank Procedure	
BU	Bogazici University	
CC	Cultural Center	
CİMER	Presidency's Communication Center	
CL	Central Laboratory	
Consultant	Tümaş & ATLASCert® & Hill Joint Venture	
dBA	Noise Reduction and Control	
dBC	Noise Rating Measure	
E&S	Environmental and Social	
EA	Environmental Assessment	
EHS	Environment, Health, and Safety	
EIA	Environmental Impact Assessment	
ESF	Environmental and Social Framework	
ESMF	Environmental and Social Management Framework	
ESMP	Environmental and Social Management Plan	
ESS	Environmental and Social Standards	
FoNAMS	Faculty of Naval Architecture and Marine Sciences	
GDCA	General Directorate of Construction Affairs	
GM	Grievance Mechanism	
ILO	International Labor Organization	
ITU	Istanbul Technical University	
LOTO	Lock Out-Tag Out	
M&E	Monitoring and Evaluation	
MoEUCC	Ministry of Environment, Urbanization, and Climate Change	
MSDS	Material Safety Data Sheet	
MU	Marmara University	
OHS	Occupational Health and Safety	
PIU	Project Implementation Unit	
PPE	Personal Protective Equipment	
PV	Photovoltaic Panel	
RAB	Rectorate Administrative Building	
SGI	Social Security Institution	
SPP	Solar Power Plant	
SREEPB	Seismic Resilience Enegy Efficiency Public Buildings	
WB	World Bank	

Executive Summary

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

This document provides information about the structural retrofitting and energy efficiency-focused improvement efforts for the Administrative Building of the Rectorate (2 Blocks), Cultural Center (1 Block), and Central Laboratory Building (1 Block) located within the Cerrahpaşa-Avcılar campus of Istanbul 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. It also delineates the roles and responsibilities of relevant parties involved. Following structural analysis conducted on the Administrative Building of the Rectorate, Cultural Center, and Central Laboratory Building, it was determined that the Central Laboratory Building does not require structural retrofitting. Therefore, only energy efficiency improvement works will be undertaken at the Central Laboratory building.

Introduction

This Environmental and Social Management Plan (ESMP) has been prepared within the scope of the Seismic Resilience and Energy Efficiency in Public Buildings Project (SREEPB) for the the Rectorate Administrative Building (2 Blocks) and the Cultural Center (1 Block) located at Istanbul University Cerrahpaşa-Avcılar Campus, Bağlariçi Street No:7, 34320 Avcılar/Istanbul, and for the Central Laboratory Building (1 Block), only energy efficiency-focused renovation activities. The goal is to ensure that these effects and risks are maintained at an acceptable level or eliminated. Following structural analysis conducted on the buildings, it has been determined that the Central Laboratory Building does not require structural retrofitting, and only energy efficiency improvement works will be carried out.

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

1 General Project and Project Area Information

1.1 Project Description

1.1.1 General Information and Objectives

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

The aim of the project is to determine the behavior of the ground and structural systems of existing public buildings with different uses against earthquakes and to eliminate the risks by structurally retrofitting them, as well as to make improvements in terms of energy efficiency, to reduce energy consumption and CO₂ 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 "Modarate" level since it is at a modarate 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 covered by this ESMP are located within the Istanbul University Cerrahpaşa-Avcılar Campus. Apart from the buildings where the project activities will take place, other buildings/structures or the campus are not expected to be directly affected by the project activities. In addition, the structures within the scope will be decommissioned during the construction activities. As a result of the structural analyzes carried out in the buildings, it was determined that there was no need for strengthening in the Central Laboratory Building, and only energy efficiency studies will be carried out in this building. Therefore, there is no need to evacuate the building in question.

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

Satellite images of Istanbul University Cerrahpaşa Avcılar Campus Rectorate Administrative Building, Cultural Center and Central Laboratory Buildings within the scope of the project and detailed information about the buildings are given in Figure 1.1 and Table 1.1, respectively.



SREEPB | Istanbul University-Cerrahpaşa-Avcılar Campus-Rectorate Administrative Building, Cultural Center, Central Laboratory

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

Figure 1-1: Satellite Image of Istanbul University, Cerrahpaşa Avcılar Campus, Central Laboratory, Cultural Center and Rectorate Building

Table 1-1: Building General Information

8		
CAMPUS NAME	Istanbul University, Cerrahpaşa Avcılar Campus	
BUILDING NAMES (included in the project)	 Cultural Center (CC) (1 Block) (8.691,69 m²) Rectorate Administrative Building (RAB) (2 Blocks) (2684,14 m²) Central Laboratory (CL) (1 Block) (1.200,26 m²) 	
PROVINCE	İstanbul	
DISTRICT	Avcılar	
NUMBER OF USERS	~235 (CC) + 85 (RAB)+60 (CL) people/day ~Total:380 people/day	
	BUILDING INFORMATION	
CONSTRUCTION AREA	$\sim 12576,09 \text{ m}^2$	
THE PLANNED WO	ORKS TO BE CARRIED OUT IN ALL BUILDINGS INCLUDED IN THE PROJECT	
STRUCTURAL REINFORCEMENT	▲ Additional load bearing system manufacturing	
THE PLANNED	WORKS TO BE CARRIED OUT IN ALL BUILDINGS INCLUDED IN THE PROJECT	
ENERGY EFFICIENCY	 Facade and roof thermal insulation Door changes Circulation system motor/pump changes Non-insulated installation elements, thermal insulation installation for heat exchangers Thermal insulation was installed on the heat exchangers in hot water production Changes of pumps in the boiler room Lighting element replacements (one-to-one replacements will be made, electrical installation intervention (line, column line replacement, etc.) will not be conducted. Self-consumption focused solar power plant facility (on the roof) (to be integrated into the existing supply line) Energy monitoring and automation system facility (to be integrated into the existing electrical system) Replacement of air conditioning unit motors with high-efficiency motors Mechanical automation and energy measurement monitoring system 	
	DURATION AND SEASON OF ACTIVITIES	
and the second quarter of 2	t within the scope of the project will be carried out between the second quarter of 2024 2024. The Contractor is obliged to complete the work in the buildings within the planned the Job Description. At the same time, the Contractor will clearly and in advance inform	

timeframe as specified in the Job Description. At the same time, the Contractor will clearly and in advance inform all stakeholders about the timeline of construction activities before starting any construction work.

EXPECTED NUMBER OF WORKERS

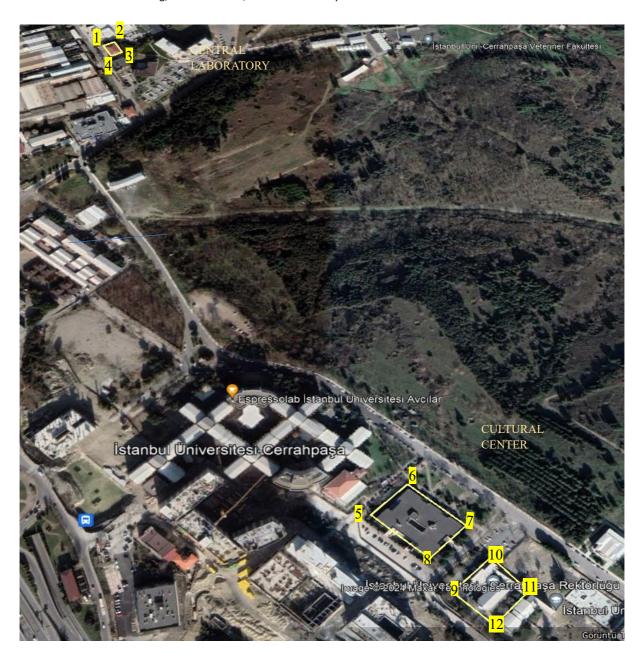
The total estimated number of workers in the buildings is expected to be an average of 75 personnel per day.

1.1.3 Locations of Campus & Buildings

The satellite image showing the campus boundaries is presented in Figure 1.2.

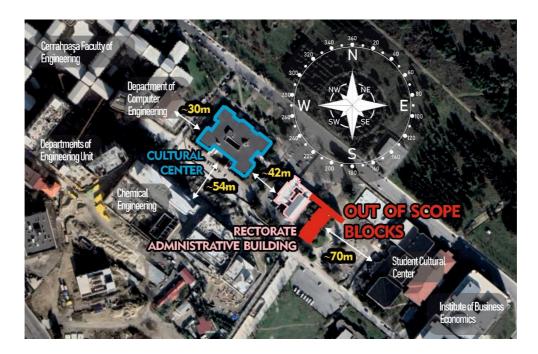


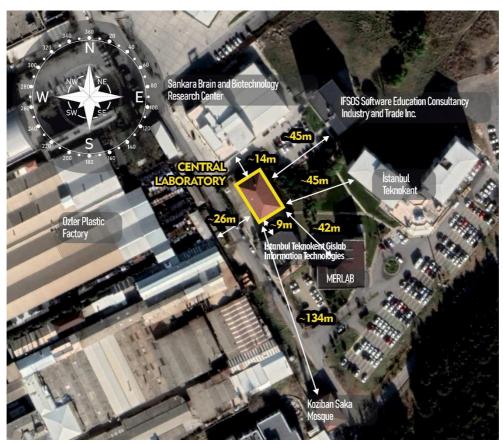
Figure 1-2: Istanbul University Cerrahpaşa Avcılar Campus Campus Borders



Central Laboratory		Rectorate Administrative Building			
No	Latitude	Longitude	No	Latitude	Longitude
1	28.72164188186948	40.99552418110659	5	28.72737784525771	40.98762574779663
2	28.72180154147054	40.9955988316534	6	28.72777010510785	40.9879563003773
3	28.72163480957348	40.99581184523616	7	28.72737387354967	40.98830323284515
4	28.72147393664747	40.99572383242364	8	28.72692947123756	40.98794629379886
	Cultural Center				
9	28.72668214602858	40.98828681513911	11	28.72642429227941	40.98907894063044
10	28.72710066889671	40.98863152221995	12	28.7260033005611	40.98873870632056

Figure 1-3: Istanbul University Avcılar Campus Rectorate Administrative Building, Cultural Center and Central Laboratory View and Coordinates





Possible negative effects that may arise during the retrofitting and renovation in the buildings will primarily occur within the building, and since there is no need for soil improvement works, noise and dust emissions, increased traffic, parking space shortage, vibration and visual effects that will be reflected outside the building have a distance of 100 m to affect the surrounding buildings. It is limited and its major domain is shown in Figure 1.4.

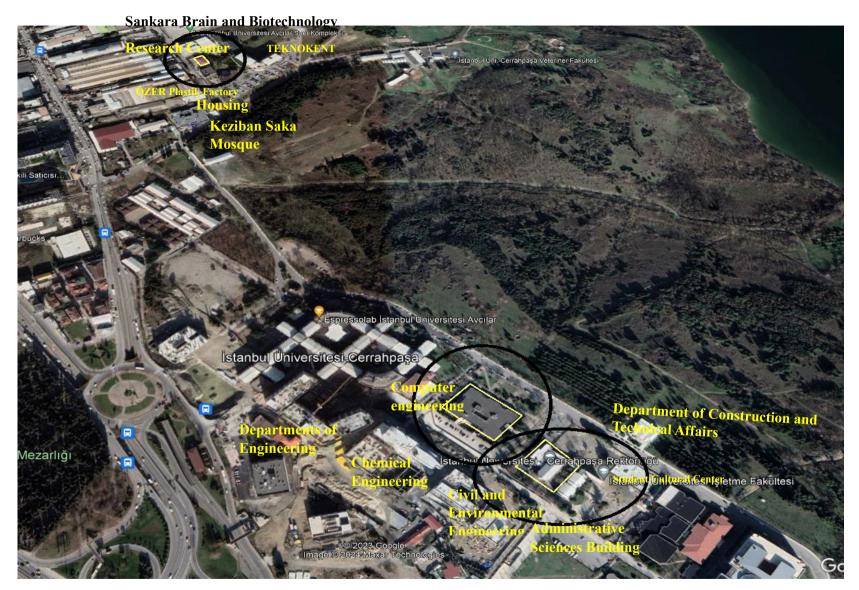


Figure 1-4: View of the Major Impact Area and Surroundings of the Buildings within the Scope of the Project

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

2.1 2.1 National Regulation

The ESMP is primarily prepared in compliance with the legislation of the Republic of Türkiye. The fundamental framework of Turkey's environmental legislation is the Environmental Law (No. 2872), which was published in the Official Gazette No. 18132 dated 11 August 1983 and was last revised in the Official Gazette No. 32414 dated 29.12.2023 concerning administrative fines. This law is supported by regulations. Below are the regulations primarily utilized or to be utilized for the assessment and prevention of environmental impacts within the scope of this project

- 1. Waste Management Regulation was published in the Official Gazette dated 2 April 2015 and numbered 29314.
- 2. Regulation on the Control of Packaging Wastes was published in the Official Gazette dated 26 June 2021 and numbered 31523.
- 3. Regulation on the Control of Excavation Soil, Construction and Demolition Wastes was published in the Official Gazette dated 18.03.2004 and numbered 25406, and an amendment was made in the Official Gazette numbered 31623 dated 09 October 2021.
- 4. Air Quality Assessment and Management Regulation was published in the Official Gazette dated 06 June 2008 and numbered 26898.
- 5. Regulation on the Prevention of Risks of Exposure to Biological Agents was published in the Official Gazette dated 15 June 2013 and numbered 28678.
- 6. Zero Waste Regulation was published in the Official Gazette No. 30829 dated 12 July 2019 and an amendment was made in the Official Gazette No. 31623 dated 09 October 2021.
- 7. Regulation on Control of Soil Pollution and Contaminated Sites by Point Sources was published in the Official Gazette No. 27605 dated 8 June 2010 and was last revised in the Official Gazette No. 28704 dated 11 July 2013.
- 8. Water Pollution Control Regulation, 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 receptors¹ 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.

¹ 1.1.3 Other buildings around the buildings that will be renovated are specified in the site plans (Figure 1-5) under the heading Locations of Campus & Buildings.

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 Framework² (ESF) and the relevant Environmental, Health, and Safety (EHS) Guidelines³ 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 2-1.

Tablo 2-1: 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 ⁴
ESS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources	No ⁵
ESS7: Indigenous Peoples/ Sub-Saharan African Historically Underserved Traditional Local Communities	No ⁶
ESS8: Cultural Heritage	Yes
ESS9: Financial Intermediaries	No ⁷
ESS10: Stakeholder Engagement and Information Disclosure	Yes

² https://www.worldbank.org/en/projects-operations/environmental-and-social-framework

 $^{^3} https://www.ifc.org/en/insights-reports/2000/general-environmental-health-and-safety-guidelines\#: \sim: text=The \%20 Environmental \%2C\%20 Health \%2C\%20 and \%20 Safety, and \%20 in \%20 IFC 's \%20 Performance \%20 Standards$

⁴ 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.

⁵ 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.

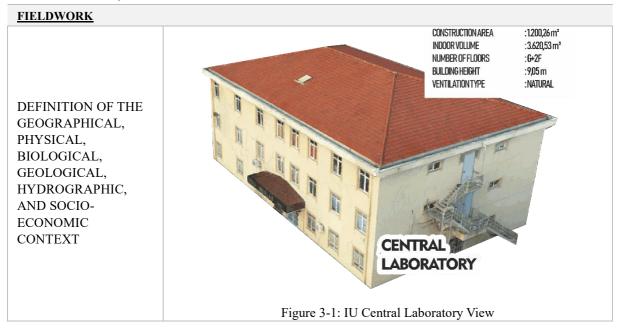
⁶ There are no indigenous groups in Turkey that meet the definition provided in ESS7.

⁷ Since there is no involvement of any financial intermediary institution in this project, ESS9 will not be applicable to this project.

3 Activities to be Conducted within the Scope of the Project

Summary technical information about the structural retrofitting and energy efficiency works to be carried out in the Rectorate Administrative Building, Cultural Center and Central Laboratory at Istanbul University Cerrahpaşa Avcılar Campus is given in Table 3-1 below. This ESMP will be accessible to all stakeholders throughout the life of the project, at construction sites and on the project's website (www.kamuguclendirme.csb.gov.tr). In addition, the draft ESMP will be disclosed on the Istanbul University official website (www.istanbul.edu.tr) at least 10 days before the meeting to ensure that stakeholders participate in the meeting with sufficient information about the project before the information meeting. The contractor includes a full-time environmental specialist, a social specialist and an occupational health and safety (OHS) expert; The Construction Supervision Consultancy firm will employ an environmental specialist, a social specialist and an OHS expert. The Consultant, the Contractor and the Ministry's Project Implementation Unit (PIU) will be responsible for recording and answering the questions and opinions regarding environmental, social and OHS issues received by the stakeholders.

Table 3-1: Summary Information About the Activities to be Conducted



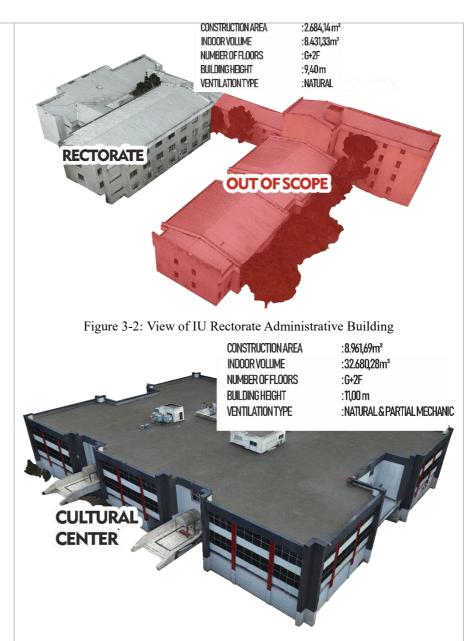


Figure 3-3: IU Cultural Center View

Within the scope of the project, work is planned to be carried out in three separate buildings located within the Istanbul University Cerrahpaşa Avcılar Campus. During the implementation of project activities (such as scaffolding installation, painting, exterior 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 works in this area. Measures to manage potential environmental and social impacts and risks of the project are detailed in Section 5.

No transportation issues are anticipated for accessing the project area. All necessary infrastructure facilities such as electricity, water, sewage, natural gas, internet, etc., can be accessed for the works.

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ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

The project site is within the Istanbul University Cerrahpaşa Avcılar Campus. The majority of the reinforcement and improvement works will be carried out inside the buildings. While reinforcement and energy efficiency improvement works will be performed in the Rectorate Administrative Building and the Cultural Center, it has been determined through feasibility studies that there is no need for reinforcement works in the Central Laboratory Building, and only energy efficiency improvement works will be conducted there.

Precautions will be taken to prevent adverse effects on nearby settlements from construction activities within the project area, and mitigating measures will be implemented to control and manage these effects, as outlined in this ESMP. The activity area and its surroundings are illustrated in Figure 1.5. Below are the major impact areas and distances to the buildings to be involved in seismic reinforcement and energy efficiency measures:

Within the Istanbul University Central Laboratory:

- Sankara Brain and Biotechnology Research Center (14 m)
- IFSOS Software Education Consulting Industry and Trade Inc. (45 m)
- Koziban Saka Mosque (134 m)
- Özer Plastic (26 m)
- Istanbul Technopark Gislab Information Technologies (42 m)
- İstanbul Teknokent (45 m)
- Merlab (42 m)

Within the Istanbul University Rectorate Administrative Building:

- Construction and Environmental Engineering (65 m)
- Administrative Sciences Building (65 m)
- Student Culture Center (35 m)
- Building Works and Technical Department Directorate (80 m)
- Cultural Center (42 m)
- Chemical Engineering Building (60 m)

Within the Istanbul University Cultural Center:

- Rectorate Administrative Building (20 m)
- Chemical Engineering (60 m)
- Computer Engineering (30 m)
- Construction and Environmental Engineering (70 m)
- Engineering Unit Departments (80 m)

Possible issues related to waste management such as noise, dust, vibration, and excavation waste spreading outside the construction site could adversely affect the occupants/residents of the buildings within the major impact area. Detailed information on the subject and the measures to be taken are provided in Section 5. In addition, the management of Istanbul 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 strengthening works begin, there will be no users in the building while the works are ongoing). However, since energy studies will be carried out in the Central Laboratory, there is no need to drain it. 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 located in close proximity to the project area are considered sensitive receptors, and measures to prevent these sensitive receptors from being affected by potential environmental and social impacts/risks of the project are presented in detail in Section 5. Additionally, 2 km away from the project area is the fully equipped Avcılar Murat Körük State Hospital. Taking into account the traffic situation, transportation by car takes approximately 5 minutes. This information will be considered during the preparation of the occupational health and safety emergency action plans.

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

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

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

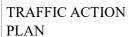




Figure 3-4: Traffic Action Plan (Central Laboratory)



Figure 3-5: Traffic Action Plan (Rectorate Administrative Building and Cultural Center)

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

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

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

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

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

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

STAKEHOLDER ENGAGEMENT PROCESS

NATIONAL

PERMITS

ETC.)VB.)

LEGISLATION AND

ACTIVITY (EG. SPP

APPLICABLE TO

THE PROJECT

INSTALLATION

STAKEHOLDER ENGAGEMENT PROCESS

The first stakeholder engagement meeting regarding the feasibility studies conducted prior to the field assessment (determination of the need for structural retrofitting, energy audit studies) was held face-to-face on 16.03.2023 and general information was provided on the technical details, purpose/objectives and phases of the project. (Annex VI)

A stakeholder information meeting was held on 29.03.2024 in order to provide information by the relevant experts on the technical, social and environmental details of the project before the implementation of the prepared and approved projects, to answer all kinds of questions of the participants about the project and to receive their opinions. In the meeting, detailed information on the retrofitting and energy efficiency renovations to be carried out in the Rectorate Administrative Building, Central Laboratory and Cultural Center of Istanbul University Cerrahpaşa Avcılar Campus was given and the envisaged environmental and social impacts were conveyed. The meeting was attended by the beneficiary institution management, technical units and students, experts from the consultant firm and PIU experts. A total of 17 people (6 women, 11 men) attended the meeting face-to-face, while the Branch Manager, Environmental Expert, OHS Expert, 2 Social Experts, 2 Civil Engineers and Mechanical Engineers attended online (3 women, 5 men). Detailed information is provided in Annex VII.

Before the information meeting, this ESMP was made available to stakeholders by disclosing it on the Ministry of Environment, Urbanization and Climate Change website for at least 11 days. The ESMP will be available to all stakeholders throughout the life of the project, both on the relevant website and at the construction sites. In addition, a hard copy of this ESMP has also been made available to stakeholders in all buildings involved in the project for at least 11 days.

Details on the Grievance Mechanism established for the Project are presented in Section 4.

ISSUES AND CONCERNS RAISED BY BUILDING USERS

On 16.03.2023, the building users were informed about the structural retrofitting and energy efficiency renovation process and asked if they had any concerns, opinions, suggestions and/or questions regarding these potential activities. At this time and afterwards (up to the date of this report), no stakeholder feedback was received in writing/verbally or through the project Grievance Mechanism.

Whether students and other building users had any concerns about these studies was raised during the stakeholder engagement meetings held for the ESMP and recorded in the stakeholder engagement meeting minutes, and stakeholders' opinions/suggestions and concerns are included in Annex VII.

INSTITUTIONAL CAPACITY DEVELOPMENT

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

4 Stakeholder Engagement and Grievance Mechanism (GM)

Stakeholder Engagement is an inclusive process conducted 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. By ensuring early, frequent and open communication throughout the project lifecycle, the Stakeholder Engagement Meeting helps to manage stakeholder expectations that will influence the management of risks, potential conflicts and project delays. For this reason, a stakeholder briefing meeting on the feasibility studies prior to the site assessment (determination of the need for structural reinforcement, energy audit studies) was held on 16.03.2023 with a total attendance of 34 people (15 women and 19 men) and general information was provided on the reasons, purpose/objectives and phases of the project (Annex VI).

project-specific **ESMP** will be disclosed the **SREEPB** on (https://kamuguclendirme.csb.gov.tr/) throughout the project lifespan to ensure that all stakeholders are informed about how the project will be conducted in the field and to receive objections and suggestions, if any, and was dsiclosed on 19.03.2024 at Istanbul University Cerrahpaşa Avcılar Campus Rectorate Administrative Building, Central Laboratory and Cultural Center buildings within the scope of the subproject. Following the completion of the suspension process, a Stakeholder Participation Meeting was organized again on 29.03.2024 in order to provide information on the technical, social and environmental details of the project by the relevant experts, to answer all kinds of questions of the participants about the project and to receive their opinions before the implementation of the prepared and approved projects. The meeting was held with the participation of the contractor, beneficiary organization management and technical units, students, consultant company employees and relevant experts of the Project Implementation Unit. (25 people (9 women and 16 men) attended the meeting.) Details of the Stakeholder Engagement Meeting are presented in Annex VII.

In addition, the Consultant prepared informative promotional materials (brochures, posters, etc.) and ensured that they were delivered to stakeholders.

The Grievance Mechanism is to provide access to an effective procedure for project-affected or interested parties. Grievances can be an indicator of stakeholder concerns and can escalate if not identified and resolved. Identifying and responding to grievances supports the development of positive relationships between Project staff, local communities and other stakeholders. The Ministry of Environment, Urbanization and Climate Change has determined many alternative methods for collecting institutional grievances and suggestions.

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 strengthening 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-cercevesimayis-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 and Social Specialist, 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.

- <u>MoEUCC Provincial Directorates Level</u>: To the extent possible, the Provincial Directorate of Environment, Urbanization, and Climate Change will be responsible for grievances /concerns/opinions/recommendations received regarding activities carried out within the scope of the SREEPB Project. Provincial directorates will also promptly forward all grievances/concerns / opinions / recommendations received, whether or not they resolve them, to the Administration.
- <u>MoEUCC Level (PIU):</u> Within the scope of the SREEPB Project, MoEUCC is responsible for collecting, recording, and resolving all grievances/concerns/opinions/recommendations expressed by stakeholders through the levels mentioned above. MoEUCC is responsible for resolving the collected grievances/concerns/opinions/recommendations within 15 calendar days and informing the complainant about the results. However, in cases requiring detailed investigation, this period can be extended to 30 calendar days.

For grievances regarding gender-based violence and sexual exploitation and harassment, it is recommended to use the web-based grievance system provided in Annex III, which allows anonymous

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grievances, in terms of confidentiality. In order to ensure confidentiality, an authorized personnel will have access to this web-based grievance system.

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 4-1: CİMER Communication Channels

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

https://giris.turkiye.gov.tr

Help Line : Alo 150

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

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

Table 4-2: GM Communication Channels

Call Center : ALO 181 Phone : 0312 586 4858

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

Grievance : https://kadevoneri.csb.gov.tr/oneri.jsp |

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/kamuguclendirme/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

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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.

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

Table 5-1: List of Environmental & Social Effects and Measures to be Taken

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

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

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

Müşavir PUB Yüklenici

The Contractor company will prepare its own OHS plan for the work it will carry out, taking into account the Occupational Health and Safety (OHS) Plan prepared by the Consultant.	
 Before construction work begins, a Risk Assessment study will be conducted for all tasks to be performed. Relevant procedures and plans, including Risk Assessment, safety procedures, training, monitoring, case investigation, and reporting, as well as Emergency Plans, will be included in Health and Safety Plans (Health and Safety Plans, prepared by audit consultants and developed by contractors by adding site-specific risk assessments, procedures, instructions), (including Asbestos Work Requirements and Precautions presented in Annex-8 of the ESMF (https://webdosya.csb.gov.tr/kamuguclendirme/menu/SREEPB-p175894_csyc_final100521mayis_20210510070430.pdf-) such as the Asbestos-Containing Structure Dismantling Procedure. Proper signage will be used on construction sites to inform workers of basic rules and regulations they should follow. Occupational Health and Safety (OHS) training will be provided to employees, identifying potential risks related to the work site and 	Consultant Contractor

tasks, and weekly and monthly site safety meetings will be conducted.
The contractor formally acknowledges that all works will be carried out in a safe and disciplined manner, designed to minimize the impact on residents and the environment.
 The contractor will appoint personnel/responsible/experts with relevant certificates and experience for occupational health and safety.
• The contractor will provide a safe working environment for workers and, before construction activities, will supply personal protective equipment (PPE) (such as helmets, masks, safety goggles, safety harnesses, and safety boots as needed) in accordance with international best practices and Turkish regulations.
 An appropriate environment for workers to rest during breaks will be provided by the contractor firm, and this will be arranged and approved in consultation with building managements, taking into account the number of workers and break times.
 Eating places for workers will be established in areas determined by building technical units with the written permission and approval of the campus administration.
• Changing areas for workers (lockable) will be provided within the buildings with the written permission and approval of the student dormitory management. These areas will be determined by building technical teams, and the use of areas outside of these designated areas is strictly prohibited. Workers will be informed by the contractor firm not to keep valuable items in these areas, and the building management will not be responsible for any theft or similar incidents in these areas. Warning signs will also be posted regarding this matter.
• Toilet needs for workers will be addressed through building infrastructures with the written permission and approval of IU

Cerrahpasa Avcılar Campus Administration. In case the existing infrastructure cannot be used, WC containers with all necessary hygiene materials will be provided by the contractor. However,
Employees will be able to use the toilets allowed/allocated for them in the building. The contractor will inform their employees about which toilets are allowed/allocated based on the number of employees. Monitoring and control regarding this restriction will be the responsibility of the contractor.
 The contractor will educate their employees on the proper use of these toilets in compliance with hygiene rules, and if any misuse is detected, the cleaning responsibility will be on the contractor.
 The contractor will provide all necessary materials for hygiene that employees may need.
The contractor will provide work uniforms that display the project name to easily distinguish the employees.
• Employees are strictly prohibited from engaging in discussions with building technical units and campus users for any reason. In case of any problems related to individuals or activities, employees will immediately report three situations to their supervisor (The responsible supervisor's contact information will be provided to all employees by the contractor). The contractor will document and report such situations to the consultant. Any decision/action related to this process will be carried out in accordance with the knowledge and approval of the building management.
• If necessary, approval from the building management will be obtained for night work. All activities will be conducted in accordance with both the Occupational Health and Safety Law (Official Gazette dated June 30, 2012, and numbered 28339) and the relevant regulations, as well as

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

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

markings will be verified, and relevant records will be maintained. Otherwise, the equipment will not be allowed into the work area. Employees responsible for using the equipment will receive job-specific training. • Maintenance forms for field equipment will be provided, regular maintenance and repairs will be carried out, and individuals responsible
 for maintenance and repairs will be designated. When new equipment and innovations are introduced in the work process, risk assessments will be updated, and all personnel will be informed and trained on any changes.
 Before entering the site, all lifting equipment, pressure vessels, and boilers will undergo periodic inspections, and access approval will be granted after inspection by the consultant.
 All machinery, equipment (including scaffolding), and hand tools entering the site will be checked for compliance with TSE standards and CE certification. Entry approval will be granted by the consultant after verification.
 Planning for material procurement, shipping processes, and storage areas will be ensured.
• For every ten (10) workers working in the same building, the contractor will have one (1) employee with a First Aid Certificate, and if the number of workers is less than 10, at least one (1) first aider will be present. Each team working in different buildings will be evaluated separately.
• storage areas for materials will be established. Chemical substances will be brought to the site after checking their safety data sheets.
Workers without vocational competency certificates will not be employed.

All employees will start work only after completing basic OHS training and orientation. Training will be updated as required by regulations.
 Renovation areas inside and outside the buildings will be marked with warning tapes. Sufficient warning signs will be installed to restrict access to these areas.
 Visitors will not be allowed to approach renovation areas. However, in necessary cases, building technical staff with expertise will be allowed to enter these areas under the supervision of authorized employees to monitor the process, take necessary safety measures, and use appropriate personal protective equipment (PPE). Training documents will be prepared for those entering the site under the supervision of authorized employees, and they will receive training before entering the site.
A construction method and risk assessment will be conducted for every activity to be carried out in the field.
A work permit system will be established for hazardous activities such as night work, working at heights, excavation work, welding work, etc.
A lockout-tagout system will be established for work on energized lines, such as maintenance and repair work involving hazardous voltage. Employees will receive special training on this system.
A discipline enforcement system for OHS non-compliance in the field will be established, and all employees will receive training on this matter.
Construction activities are primarily scheduled during daylight hours. However, if night work is required, the entire work area, access paths, and hazardous areas shall be well-lit.
Procedures will be prepared for situations that may occur during construction activities and require emergency response, such as fires, earthquakes, chemical spills, etc., to ensure control of public and

environmental health. These procedures will be shared with all employees.
 If there will be a disruption in electrical, water, or natural gas supply, whether short or long-term, due to construction activities, the necessary security measures will be taken, and building users will be informed of the interruption well in advance.
 Employee health screenings, entry documents (personnel files), training documents, PPE delivery records, approved logbooks, and all other documents and records required by OHS regulations will be kept in the workplace. All these documents will be ready for presentation during inspections by the Consultant and the Ministry.
 An organizational chart outlining roles, responsibilities, and contact information for OHS will be created under the OHS heading.
• In case of changes to public building entrances during construction, appropriate structures for disabled users will be provided.
• The OHS Plan to be prepared will also address public health, and a person and position responsible for communication with building users and the local community will be defined in the plan.
• Records of all activities and incidents (meetings, inspections, supervision, training, accidents, fires, etc.) conducted during the construction phases will be kept.
• In accordance with the SREEPB Project Labor Management Procedure and covering all contractors and subcontractors:
• The contractor and all subcontractors will create a written and signed social policy/commitment statement, confirming that they will not engage in forced labor, child labor, or employ uninsured workers. They will also commit not to discriminate among workers based on age, gender, religion, language, race, etc., and will refrain from the use of force, abuse, bullying, insults, and humiliation. This document will

		 emphasize that all contractor employees should pay attention to these aspects in their relationships and communication with each other. Measures will be taken to prevent the spread of infectious diseases (including sexually transmitted diseases and infections such as HIV) and non-communicable diseases arising from the performance of construction works. In this context, particular attention will be given to the awareness that different groups of the community, especially vulnerable and fragile groups, may be at varying levels of risk. Preventive and mitigating measures will be implemented to address the spread of infectious diseases that may arise from temporary or permanent labor mobility associated with the contract. 	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	b) OHS Possible adverse health effects on workers, facility users, children, and the general public due to asbestos fiber and dust emissions during the removal, transportation, and final disposal of asbestos layers	 The project site will be illuminated throughout the night. 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. Any broken glass during the process will be immediately cleaned. Work areas will be separated from inhabited areas of the building using physical barriers. All procedures related to asbestos are outlined in Annex-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. Additional cleaning will be added to the building's cleaning schedule to eliminate the excess dust and dirt generated by the demolition work. 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. Old windows and doors will be temporarily stored in a secure location designed to prevent unauthorized access. 	Contractor

	 Regular maintenance will be conducted on vehicles to minimize the risk of accidents due to equipment failure or early breakdowns. Both training sessions and incidents (such as fatalities, lost-time accidents, leaks, fires, etc.) will be documented. In the event of a significant incident, the contractor will immediately inform the MoEUCC. The MoEUCC will report any significant incident (such as accidents, leaks, fatalities, etc.) to the World Bank within 48 hours and submit an incident investigation report, along with a corrective action plan, to the World Bank within 30 working days. 	
	 The contractor will be responsible for the safety of all personnel and individuals within the construction site from the moment construction work commences. In the event of any damage occurring during construction work, the 	
	Contractor will compensate for all damages incurred by the Beneficiary Institution, Employer, and/or third parties.	
	 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. 	
c) Safety	• The Contractor will have qualified personnel specifically responsible for safety and protection against accidents on the site. This person will be responsible for the Contractor's entire workforce and labor, as well as the Project Manager, the employer's personnel on the site, equipment, offices, and other facilities. This individual will possess the necessary qualifications for the job, have the authority to give instructions, and be capable of taking all necessary measures to prevent accidents. The Contractor will establish a dedicated team for this purpose.	Contractor
	• 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.	

	1		
		 A security team consisting of an adequate number of guards will cooperate with the City Security Forces and strictly follow all rules and instructions received from them. The Contractor will have at least one night guard for the construction site. 	
		 The scrap parts of machinery, equipment, and systems that have been replaced will be delivered to the building management without causing any damage. 	
		• These machines, equipment, and system parts will be transported by the contractor to the area requested by the building management (inside the building and/or within the campus). The transportation and delivery process will be documented with a delivery report. As of the date when this report is signed by both parties, the responsibility for the scrap parts will belong to the building management.	
		General Information	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	fitting Works for ic Resilience and y Efficiency vement in Public in Resilience and health effects (improper waste management can	 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. Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in 	PIU Consultant
		compliance with national laws and regulations as well as the requirements of the World Bank's ESF.	
		• The Waste Management Plan will be prepared by the consultant as specified in Annex 9 of the Environmental and Social Management Framework ⁸ .	
		• 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.	Consultant

8 https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894 csyc final100521--mayis 20210510070430.pdf

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 Daily visual site inspections will be conducted by the consultant to monitor the implementation of mitigation measures. All types of waste will be separated at the source and collected separately during construction activities. The waste will be transported to temporarily designated waste storage areas in compliance with 	
project and regulatory requirements, as determined in consultation with the beneficiary's knowledge. (The temporary storage period is limited to 6 months.)	
• Temporary storage areas will be determined by the contractor company with permission obtained from the Istanbul University Cerrahpasa-Avcılar Campus Administration and these areas will be reported to the consultant.	
• If a protocol is signed between the contractor and the beneficiary institution, the existing waste management system can be used. However, through the protocol, the contractor will be responsible for covering the costs associated with its own waste.	Contractor
• The contractor will, if possible, reuse and recycle appropriate and feasible materials (except asbestos).	
Documents related to waste disposal and recycling will be regularly maintained and recorded. A Waste Record Information Form will be prepared for keeping these records.	
• During construction activities, when vehicle tires need replacement, old tires will be disposed of through a tire distribution and sales business using licensed vehicles for transportation.	
Solar Panels	
• Unused and/or end-of-life solar panels will be temporarily stored in an area determined by the beneficiary for a maximum of 6 months, in a way that does not pose an OHS and environmental risk.	

• PV panels taken to licensed facilities with licensed vehicles after temporary storage will be primarily recycled, and those that cannot be recycled will be disposed of in accordance with the relevant legislation.

Excavation, and Debris Wastes:

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

Waste Batteries and Accumulators:

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

Hazardous Wastes:

• In the temporary storage of hazardous wastes on the project site, the wastes will be kept in secure, leak-proof, and internationally accepted standard containers within the project area. The containers will be labeled as hazardous waste, and information such as the waste code, quantity, content, characteristics, protection conditions, and storage date of the stored substance will be specified on the containers. Hazardous substances can be stored temporarily for a maximum of 6 months. (Temporary storage areas will be determined by the contractor by the regulations, with permission obtained from the University Administration, and these areas will be reported to the consultant.)

Containers storing hazardous materials and waste oils will be placed in impermeable concrete areas to prevent spillage and leakage into the soil.
Harmful substances such as paints with toxic content, solvents, or lead-based chemicals will not be used.
The management of hazardous waste will be carried out in accordance with the Waste Management Regulation.
Possible hazardous chemical substances and wastes that may occur on the construction site will be sent to licensed disposal facilities using the online program Integrated Environmental Information System (E-ÇBS) of the Ministry of Environment, Urbanization, and Climate Change.
 Spill containment and leakage absorbent pad kits will be readily available in the work areas. All personnel in charge will undergo training on protection and emergency response related to hazardous chemical spills and leaks.
• In the event of medium and large-scale environmental accidents, an accident investigation will be conducted and reported.
Used fluorescent lamps removed during renovation/construction work will be disposed of at licensed facilities. The necessary documents for transportation and disposal of the material will be kept at the construction site and will be presented to the MoEUCC and the World Bank upon request.
Domestic Waste:
Domestic wastes will be separated at the source (plastic, glass, paper, etc.) and efforts will be made to recycle materials that can be recycled. Employees will receive training on proper waste separation.
Waste that cannot be recycled will be collected in sealed sanitary waste bins, and it will be sent to the sanitary landfills through the Avcılar Municipality's solid waste collection system.

		Asbestos:	
		• If asbestos is present on the project site, it will be clearly marked as a hazardous material.	
		• In the case of asbestos being present on the project site, it will be properly stored and sealed to minimize its impact.	
		• When asbestos removal is necessary, a wetting agent will be used to keep asbestos dust to a minimum before the removal.	
		The entire procedure to be applied regarding asbestos is included in Annex 8 of the Environmental and Social Management Framework document (https://webdosya.csb.gov.tr/db/kamuguclatma/menu/kadev-p175894_csyc_final100521mayis_20210510070430.pdf). The Contractor will act by the content in question.	
		• If asbestos material needs to be temporarily stored, the waste should be kept in secure containers and properly labeled. Security measures will be taken to prevent unauthorized removal from the site.	
		 Removed asbestos will not be reused and will be disposed of in accordance with national regulations and sent to licensed facilities. Necessary documents for transportation and disposal of the material will be kept at the construction site and will be presented to the MoEUCC and the World Bank if requested. 	
		Paints containing toxic components, solvents, or lead-based paints will not be used.	
Renovation and Retrofitting Works for	e) Pollution Prevention	• Site-Specific Pollution Prevention Plans, if necessary, will be reviewed and approved by the PIU.	PIU
Seismic Resilience and Energy Efficiency Improvement in Public Buildings	Demolition and construction activities can lead to pollution on construction sites	• 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.	Consultant Contractor

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• Air quality related to dust generation is addressed in the "g. Air Quality/Emission" section of this document.	
Hazardous substances will be secured in the designated storage area to prevent spillage and tipping.	
• Containers for partially used chemical materials will have lids and will be tightly closed when not in use.	
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.	Contractor
• In case of any hazardous substance or hazardous waste leakage, leakage prevention methods will be applied to limit the exposure area.	
Leak kits will be placed at appropriate points on construction sites.	
• In the event of any leakage, workers who will respond to such incidents will be identified and trained in emergency response to leaks.	
Training records will be maintained at construction sites.	

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

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	demolition process and the necessary precautions will be determined as a result of the measurements. If measurements exceed the levels permitted by legislation, WBG EHS Guidelines measurements will be made at regular intervals every week.	
	As a result of the measurements, if necessary, noise curtains can be placed to prevent nearby classrooms from being affected by noise.	
	Site evaluations will be carried out in accordance with the World Health Organization Environmental Noise Guidelines for the European Region.	
	In case the noise level increases during the construction phase, it will be ensured that the work machines are not operated at the same time in order to avoid disturbing the nearby faculties.	
	 Necessary communication will be provided with the public in the nearest settlement in order to determine the impact of noise that will occur during construction works and to take the necessary precautions. 	
	 Measures such as using new model vehicles as much as possible will be taken to minimize noise levels. 	
	• The unnecessary use of horns and sirens by vehicles transporting machinery, equipment, materials, and personnel within the scope of the project is prohibited. This rule applies to both within and outside the campus. Contact numbers will be provided on vehicles to address and resolve grievances related to such issues	

Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	g) Air Quality/Emission:	 Debris will be kept in a controlled area, and water will be sprayed to reduce dust from the debris. (Water will be provided from the campus infrastructure. In case of prolonged water interruptions, water tankers may be used for supply.) 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). Renovation and retrofitting works will mainly take place inside buildings. Dust generated during scraping and stripping operations will be suppressed by continuous water spraying. Dust generated during excavation will be suppressed by continuous water spraying and/or by installing dust curtain enclosures at the construction site. In case of debris generation, a debris chute will be used after the first floor. The surrounding environment (sidewalks, roads) will be cleared of debris to minimize dust. Open burning of construction materials/waste substances will not be allowed at the construction site. Construction vehicles at the construction site will not be idled for an excessive period. 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. All vehicles to be used will have exhaust emission permits, and regular maintenance will be conducted on all vehicles or monitored for maintenance. 	Consultant Contractor
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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	 h) Water Quality Uncontrolled disposal of wastewater/waste generated at the construction site can affect the coastline. i) Soil Quality The mixing of hazardous substances and waste into the soil 	 Efforts will be made to minimize the storage or disposal of waste generated on the construction site. Küçükçekmece Lake is 750 meters from the campus. No waste will be thrown into Küçükçekmece Lake during the activity. Construction vehicles and machinery will only be washed in areas where surface runoff will not contaminate natural surface water bodies. The disciplined implementation of waste management mentioned in previous sections is necessary. All hazardous chemicals (including contaminated waste) will be stored in temporary storage areas that meet leakproof requirements. 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. 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. 	Consultant Contractor
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings j) Required Resources		 Contractors will obtain the necessary permits from building authorities to use water from the public network for construction activities. In case of any issues with obtaining permits, water will be brought to the construction sites using tankers. Concrete will be sourced from locally licensed ready-mix concrete facilities. 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 	Contractor

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

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.	
 Construction sites will be surrounded by health and safety signs to prevent potential accidents. 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. Construction sites will be separated and secured with warning/caution tapes to ensure safety. All types of vehicles operating during construction will be required to adhere to the specified speed limit. 	Consultant Contractor
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.	Consultant Contractor

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

		All traffic organization will be discussed and planned in coordination with the relevant authorities.	
Operational phase impacts and risks	a) Waste Management Improper waste management with various waste streams can lead to possible adverse environmental and health effects (inadequate waste management can result in direct and indirect pollution in water and soil and can affect air quality).	Waste streams will be collected separately, stored, and disposed of through licensed companies in accordance with national regulatory requirements.	Relevant beneficiary institution
Operational phase impacts and risks	b) OHS risks Maintenance and repair activities related to the proper functioning of the building can pose occupational health and safety (OHS) risks for workers.	 Relevant OHS risks will be reduced through the provisions specified in national legislation. 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.). Keeping records related to the Main Design Project and relevant project documents for easy maintenance and renovation of any part of the building. 	Relevant beneficiary institution
Throughout the project lifecycle	Stakeholder Feedback (Suggestion, Grievance, Opinion)	The responsible employee of the Construction Contractor will collect, record and forward the grievances/opinions/suggestions arising from construction activities at the field scale to the administration through the forms provided in Annex III and Annex IV. These grievances will	Throughout the project lifecycle

be recorded and submitted to the administration. Grievances will be closed using the Grievance Closure Form provided in Annex V.
• The site supervisor of the Contractor will be provided with training on the operation of the Grievances Mechanism by the Social Specialist of the Consultant firm.
• Corrective actions will be taken within 15 working days for grievances/opinions/suggestions collected under the project, and if the grievance period exceeds 15 days (the grievance period will not exceed 30 calendar days), this matter should be agreed upon between the Contractor/PIU and the complainant. At the end of the process, the applicant will be informed that the request has been closed.
 In cases of gender-based violence, sexual abuse, and harassment, proceedings will be conducted in accordance with the principle of confidentiality, taking into account the possibility of retaliation.
• In the event of encountering a sexual abuse crime, legal action (reporting the situation to law enforcement authorities, referral to the relevant public institution) will be initiated immediately with the consent and knowledge of the survivor of this crime. In the event of such a situation, the PIU Social Specialist will be informed on the same day.
• The Contractor will follow the GM Procedure of the SREEPB Project in all activities related to GM.
• All personnel working within the SREEPB Project (PIU, Consultant Firm, Contractors) can report their grievances/opinions/suggestions to the Administration and/or the World Bank following the process in GM outlined in the Labour Management Procedure for SREEPB Project.
• The Contractor will announce the contact information specified in this report for the collection of suggestions and grievances using information boards allocated to the outside and inside of the buildings (at least one for each floor).
• The principles for receiving feedback are explained under the "4. Stakeholder Engagement and Grievance Mechanisms" title of this document.

6 Environmental and Social Monitoring Plan

Table 6-1: Environmental and Social Monitoring Plan

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

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Occupational Health and Safety (OHS) protection measures for construction site workers	Project site and buildings near the project site	Visual Inspections Site Inspection Availability and Implementation of OHS Plan	Every working day throughout the project activities	Minimizing occupational health and safety risks for workers, especially those involved in removing asbestos-containing roof covers, through the provision of protective equipment and clothing. Compliance with the Occupational Health and Safety Law, relevant regulations, notifications, directives, and other regulations.	ContractorConsultant
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/strengthe ning work and continuously every working day	Preventing Post Activation Potential (PAP) injury due to inhalation of asbestos fibers or other construction dust.	ContractorConsultant

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

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

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Manufacturing, Operation and Delivery (pipeline manufacturing and construction)	Project site	Visual checks, Field Control Records, Required Tests, Control of Personnel Adequacy by the relevant authority	During the relevant manufacturing process in the project and when the manufacturing is completed	Confirming that pipeline construction is complete before delivery. To prevent a possible disaster after production and delivery to the end user.	 Beneficiary Institution Service Provider Institution OHS Department Advisor Contractor
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	ContractorConsultant
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	ContractorConsultant

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

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

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Identifying asbestos- containing waste, packaging it properly, labeling it as hazardous waste	At project construction sites Before starting removal/dismant ling work	Identification of asbestos-containing waste according to the waste list Site inspection Review of document records	Throughout the project lifecycle/Daily In case of detection	• Regulation on Health and Safety Measures in Working with Asbestos	• Consultant
Proper temporary storage, packaging and labeling of the extracted waste	Project site	Waste Records Site Inspection Visual Inspections	Throughout the project lifecycle/Daily	To minimize injuries, To prevent environmental pollution, Ensuring that inventory is kept properly. •Waste Management Regulation	ContractorConsultant
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	ContractorConsultant

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

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Stakeholder engagement	Istanbul University Avcılar 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.	PIUContractorConsultant

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

7 Duties and Responsibilities

Table 7-1: Task Distribution List

RESPONSIBLE PARTY	RESPONSIBILITY
MoEUCC /PIU	 Implementation and monitoring of the project, and utilization of funds. Employment of at least one full-time Environmental, Social, and Occupational Health and Safety (OHS) expert. Conducting necessary correspondence with official authorities and ensuring follow-ups. Supervising and ensuring compliance of Environment and Social Management Plans (ESMPs) with both national regulations and WB policies specific to the project. Presenting the prepared ESMPs to the WB after relevant checks. Establishment of a Grievance Mechanism. Organizing and conducting project informational meetings. Guiding consultants and contractors. Summarizing environmental and social issues related to project implementation in regular progress reports submitted to the WB. Coordinating and liaising with WB's inspection missions regarding the evaluation of project implementation in terms of environmental and social mitigation policies. Supervising the contractor's ESMP implementation and documenting necessary performance, suggestions, and future activities as part of the general project audit. Ensuring the contractor corrects the application if ESMP is not followed and informing the WB about the issue. Assisting the consultant if needed to obtain necessary permits throughout the project. 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.
CONSULTANT	 Conducting a preliminary site assessment before the project starts, If at least one Environmental, one Social and one OHS expert is employed full-time Preparation of the project-specific ESMP and OHS Plan, Monitoring, evaluating and submitting to the Administration the activities defined as the responsibility of the contractor in the ESMP and OHS Plan, Ensuring the operation of the Grievance Mechanism established by the Ministry, Providing feedback to the MoEUCC by preparing reports about the project and ESMP processes, Examining sub-management plans such as Waste Management Plan, Pollution Prevention Plan, Total Safety and Traffic Management Plan, OHS Plan prepared by the Contractor and submitting them to the Administration for approval, Review and approval of Construction Methods prepared by the contractor, Application to the energy distribution company for the installation of PV, Providing training for the contractor (Environmental Impacts, Waste Management, OHS Plan Implementation and Monitoring Training, Response to Environmental Emergencies, Energy Efficiency, Stakeholder Engagement

CONTRACTOR	 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) Employing at least one full-time Environmental and one full-time OHS expert. Appointing an experienced Environmental and OHS Officer for the comprehensive management and monitoring of the site-specific ESMP and OHS Plan. Implementing laws, regulations, and rules related to ESMP and OHS Plan attached to the tender documents as defined by the Consultant. Implementing relevant laws and regulations mentioned in the tender documents appropriately. Updating ESMP and OHS Plan content in coordination with the Consultant during the implementation of ESMPs and OHS Plan in the field as necessary. Preparation of the OHS Plan for the activities to be carried out, taking into account the OHS Plan prepared by the Consultant, Monitoring the field activities defined in the ESMPs prepared specifically for the project at regular intervals (daily, monthly, etc.), Preparation of the Community Safety and Traffic Management Plan Operating the Grievance Mechanism in compliance with GM Procedure established by the Ministry. Examination of the ESMP prepared by the Consultant, commitment to
	 Implementing relevant laws and regulations mentioned in the tender documents appropriately. Updating ESMP and OHS Plan content in coordination with the Consultant
	 Preparation of the OHS Plan for the activities to be carried out, taking into account the OHS Plan prepared by the Consultant, Monitoring the field activities defined in the ESMPs prepared specifically for the project at regular
CONTRACTOR	 Preparation of the Community Safety and Traffic Management Plan Operating the Grievance Mechanism in compliance with GM Procedure
	·
	 Preparing the Random Finding Procedure if deemed necessary. Preparing ESMP progress reports for MoEUCC.'s review.
	 Applying to the authorized energy distribution company and local gas distribution company depending on the works to be carried out.
	• Establishing the Employee Grievance Mechanism detailed in the Labor Management Procedure before any construction work starts and ensuring its transparent operation.
	• Preparing the Labour Management Plan specific to the project considering the SREEPB Labor Management Plan (LMP) ⁹ .

 $^{^9\ \}underline{https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894_isgucuyonetimprosedurlerinihai_tr_20210527081102.pdf$

8 Reporting

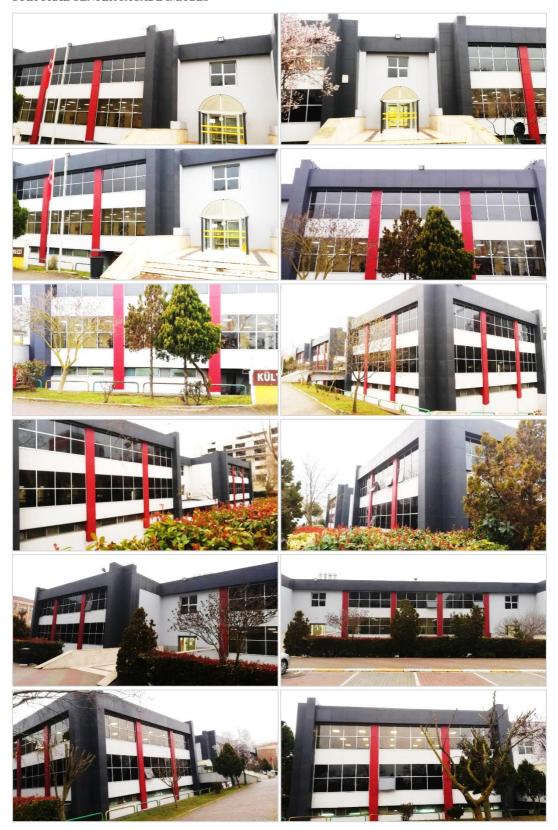
The details regarding the reporting requirements of the project are presented within the Environmental and Social Management Framework disclosed on the website of the SREEPB Project (https://kamuguclendirme.csb.gov.tr). A summary of this information is provided in Table 8-1.

Table 8-1: Reporting Process Requirement List

RESPONSIBLE PARTY	REPORTING PROCESS REQUIREMENT
MoEUCC /PIU	 Preparation of the 6-month Project Progress Report and submission to the World Bank (WB). 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. Monthly updates to the WB about the functioning of the Grievance Mechanism.
CONSULTANT	 Preparation of end-of-implementation ESMP reports for the Administration's review. Preparation of monthly of ESMP progress reports and submission to the Administration. Preparation of monthly of GM reports and submission to the Administration Immediate reporting of any important events such as accidents, leaks, deaths, sexual harassment/abuse to the PIU.
CONTRACTOR	 Monthly preparation of ESMP progress reports and submission for approval by the Consultant. Weekly preparation of GM reports and submission to the Project Manager of the Consultant. Immediate reporting of any significant events such as accidents, leaks, deaths, sexual harassment/abuse to the Consultant. Incident/Accident and Root Cause Analysis Reports will be prepared. Report content details are presented within the Environmental and Social Management Framework.

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

CULTURAL CENTER FACADE IMAGES



RECTORATE ADMINISTRATION BUILDING FACADE IMAGES



CENTRAL LABORATORY BUILDING 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 Annex-2/Table 1.

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

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

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

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

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

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

Rev:01

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





Annex III Suggestion & Grievance Form (Internet)

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

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











Annex IV Suggestion & Grievance Form (Printed)

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

REPUBLIC OF TURKEY MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE			CE AND ENERGY EFFI S PROJECT (SREEPB		
		0	GRIEVANCE / SUGGESTION FORM	ß.	
		ISTANBU	IL UNIVERSITY CERRAHPASA REC	TORATE	
ID Number					
Name					
Surname					
Province	İstanbul				
Channe the building.	Student Cultural Center		Central Laboratory	Recto	orate Administrative Building
Choose the building:	C Block Dormitory Bui	llding	V Block Dormitory Building		
Your grievance					
Your disability, if any:	Blind	☐ Deaf	Physically disabled	Other	None
For return:	E-mail	Phone	☐ Don't want		
E-mail					
Phone					











Annex V Grievance Closeout Form

The Grievance Closeout Form is presented to your attention below.

[]YES	Is compensation required?
Control	
	Term and Responsible Institution
	plainant after receiving the compensation
	Control











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

Project

WB/CS-DESSUP-01

Code Date

16.03.2023

Building Name

ISTANBUL UNIVERSITY AVCILAR CAMPUS

Start | End Time

10:00 | 11:22

ANNEXVI-Table 1 Meeting Agenda

START TIME	END TIME	ACTIVITY
10:00	10:05	Meeting kick-off speech
10:05	10:10	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.
		 As of 10:10, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.
10:10	10:20	Information was given about the SREEPB project and its objectives.
		Image 1 PRESENTATION FILE SHARED SECTIONS_01







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10:20	10:27	 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. Environmental and Social Management Plan; 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. Occupational Health & Safety Plan 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. Stakeholder Engagement Plan 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. The importance of stakeholder engagement was mentioned. It was stated that the details of the communication will be announced at the end of the presentation.







		Image 2 PRESENTATION FILE SHARED SECTIONS_02
		GENEL AŞAMALAR GENEL AŞAMALAR
		Socialité bindame meacut durunten, yende yapitan telak incelemeter neticesinde belitierrecelirir. (fisposi finibilité, errequi verindigi retektéer) Bira yapisal olarak kantoli adilisak, dandaritana jugun bigimde numuneler (sonda), koort, çoik numunes ket) almacut, murune tett sanuplan vayarida yapina galaneriar rapartamodatir. Bira aneij porformanini, direk va dicity a fatiger sistem, yapi va ethazlar galaneriar, reter tota tuluocul, elde edlen verter va bu verter riginaria yapian hesaplamatar urporformadatir. Bira aneij porformanini, direk va dicity a fatiger digityaleriar diklatie olimani. Belitierem erferorar degerier urerinden kyralanacak, genel energi performans sevyeleri tanımlanacaktır.
		GENEL ASAMALAR Projo & shole doklimonton ile birlikte; - (severed Songel Yeartin Render (Projenia preved ve soyal etileri beliferecek, riskler ve risklerin berarberi, har hystora gelirekee de pelmer transflamotodir) - (s. Sodje) & Glavenija Penkon (Indiat opanaloruna (skin sadjeli ve giveriidiji riskleri beliferecek, viskler ve risklerin produce, ve betroat in produzioga riskleri or cinimar provendo molikerit transflamotodir) - (Projos Kathin Planian (Projeden direk ve doklori etilerecek projeder ve sick konsus poydoglar proje ve proje serpetin in historia beliferecek projeder ve sick konsus poydoglar proje ve proje serpetin beliferecek projeder ve sick konsus poydoglar proje ve proje serpetin projeder positivation (Projeden direk ve doklori etilerecek projeden ve sick konsus poydoglar projeden proj
10:27	10:31	 It was explained that the tests and studies to be carried out for the soil survey to be carried out in order to determine the ground condition and these studies will be carried out according to the characteristics of each building. It was stated what stakeholders and employees should do for occupational health and safety. It has been explained that the professional competence of the employees will be questioned. Possible environmental effects related to soil survey, precautions to be taken and considered in this regard were stated. The possible social effects of the ground survey, the precautions to be taken and the things to be considered about it were explained.







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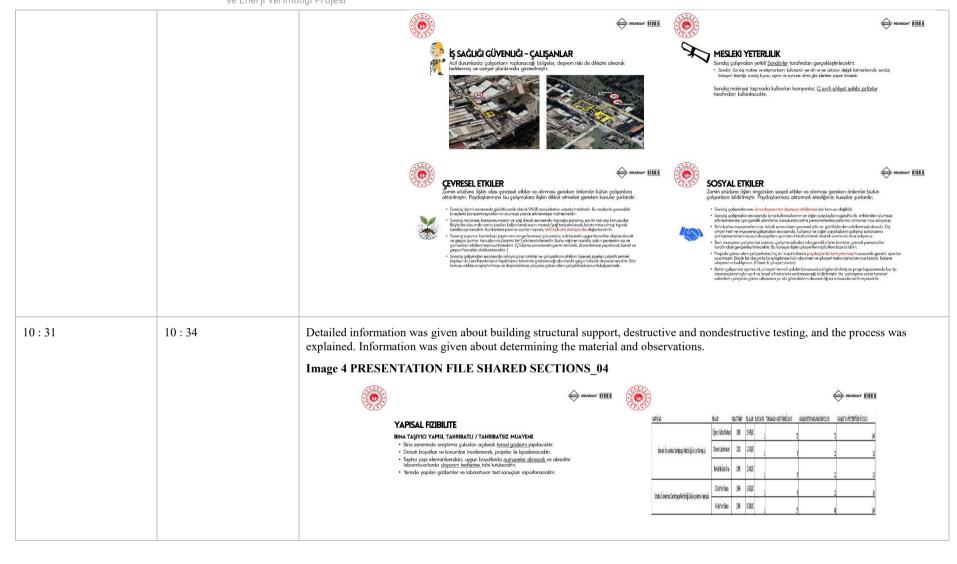
ve Enerji Verimliliği Projesi Image 3 PRESENTATION FILE SHARED SECTIONS 03 ATLASCORT HILL ATLASCOT HILL YAPISAL FIZIBILITE YAPISAL FIZIBILITE ZEMIN ETÜDÜ; ZEMIN ETÜDÜ; Arcstmar (Julius (finer bir yapı için en az 1 adest) jeoftalis serim (her bir yapı için en az 2), 30m derinikte sonda) (2-15 ad. aras) ke zemin durumu belirlenecek ve raportanacaktır. Her bir yapı için bu kapsamda gərçekleştirilecek test, sondaj sayılanı belirlermiştir ve birra teknik birrillen ile poylaştırılaştır. Bu kapsamda gerçekleştirilecek test & numune sayıları aşağıdadır; VertecLoosteron 300 1.94,00 Ferrolitar Sea 184,00 Chkistine E. 160,00 VBM for Sec 202 500,00 ATLASCORT HILL ATLASCON' HILL İS SAĞLIĞI GÜVENLIĞI Zomin otüdüno ilişkin risk analizi gerçekleştirilmiş, <u>iş seğliği ve güvenliği plankan</u> hazırlarmış ve çolişanlara aktonimıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır: İŞ SAĞLIĞI GÜVENLIĞI – ÇALIŞANLAR Çalşarıların tururun ayağıda belirilen ve terallerine teslim edilen kişsel koruyucu domanınların daşlarılı şekilde kullarımalda yükunladır. Soz tarasız domanınları uygun şekilde tapırmayarı (kulmanyanları olganlarılarını zin verilmeyceditir. Kaakis sondaj makinesi, karryon mariferi lie sondaj rokratanna fiet lecelatir, Saz korusu karryorlam kullarım, manerarian asmarada kimasain zarar görnemmei jeja zarun haler diyeda 20m den rada yokiaplimane gelerenketelekt formyore sy notionelerini zazar hitz saira 20m den di d. « Sondaj kulesinin kaldelmas erananda, kule etti aları içinde bina elemanlarının, ağıq doların vib. almadığındının nürmeldir. Banet - TSEN 397+Al Kulak Tikacı - TSEN 352-2 Koruyucu Gözlük - TS EN ISO 16321-3 Genel Amaglı İş Eldiveni - TS EN ISO 2/420 Sondaj işlemi yapılan alana 20m' den fazla yaklaşılmamas gerekmektedir. Bunun tesisi için çalışma sohasi ermiyat şeridi ila ayrılacaktır. Sandaj işlemi esnasında çevredeki teknik kadroların tozdan etkilenmemesi için yarım yüz maskesi kullarırım önerlir. İş Ayakkabısı - TS EN ISO 20347 Yarım Yüz Maskesi - TS EN 140 . Sandaj işlərin sınasında gürültü anlık olarak 95dB seviyəlerine ulaşabilmektedir. Bu nedenle çevredek bireylerin konsantrasyonlarının olumsuz yande eticlenmesi muhterreldir. · Parașut Tipi Emniyet Kemen - TS EN 361 (Sadece So







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10:34	10: 36	A statement was made about the destructive and nondestructive testing to be done after the soil survey. Information was given about the reinforcement and stirrups. Explained how to take samples. Image 5 PRESENTATION FILE SHARED SECTIONS_05 YAPISAL FIZIBILITE BINA TASYYCI YAPIS TAKRIBATSIZ MUAYENE Doruth we other medit? Doruth feter in periodic geld subsidients (Better bonesed use; each by calcium be' approached suglement come. Our beloging registrate). Ethyles (Salon, livis gib) inspect alternal elementarium; boyune denablaren sarrar, inguat geld; in the feter propose atternal elementarium; boyune denablaren sarrar, inguat geld; in the feter propose atternal elementarium; boyune denablaren sarrar, inguat geld; in the feter propose atternal elementarium; boyune denablaren sarrar, inguat geld; in the feter propose atternal elementarium; boyune denablaren sarrar, inguat geld; in the feter propose atternal elementarium; boyune denablaren sarrar, inguat geld; in the propose atternal elementarium; boyune denablaren sarrar, inguat geld; in the propose atternal elementarium; boyune denablaren sarrar, inguat geld; in the propose atternal elementarium; boyune denablaren sarrar, inguat geld; dayporen testigin namure (lik begiverative); period to mente in the ladders, approached to the propose atternal become denablaren sarrar, inguat geld; dayporen testigin namure (lik begiverative); period to mente in the ladders, approached to the propose atternal become denablaren sarrar, inguat geld; dayporen testigin namure (lik begiverative); period to mente in the ladders, approached to the propose atternal become denablaren sarrar, inguat geld; dayporen testigin namure (lik begiverative); period to mente in the ladders, approached to the propose atternal become denablaren sarrar, inguat geld; and the propose atternal become atternative period to mente in the ladders, approached to the propose atternal become atternative period to the propose atternal become atternative period to the propose atternative period to the propos
10:36	10:38	 It was stated that the tensile strength test will be applied to the samples taken. 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.







		Image 6 PRESENTATION FILE SHARED SECTIONS_06	
		YAPISAL FIZIBILITE BINA TAŞIYICI YAPISI TAHRIBATSI / TAHRIBATSIZ MUAYENE Donath rumunelleri; olmedife laboraturarlarda çeleme dayarım teatlerine tabi tutulur, lapma kurvefleri beritlerir ve raparlarır.	YAPISAL FIZIBILITE BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE Kolon, kitiş nodir? • Kolons Sülun olamik da bilmen, toşiyan sistemde düşey yapı elemanlarına verilen isimdir. Yapıda dey ve çı alılendan oluşan kuzvallari (moment, kasme kuzvalı vb.) temelene, doloya ile zeriline altandırı. • Kitiş 'Foplanda doşeme ve kullanım alanı yüklerini düşey toşiyacılara (kolon) oktaran yapı elemandır.
		YAPISAL FIZIBILITE BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE Nurrunelerin çilarilmoşi; Tayyo betren larmalı qırı kladırlardın Non çapında 'Den dernliğinde, silndirik rurrunelerin çilarilmas: - Kardı makinas, marına vellacadı notlaye hadeldınardı vaga naçarin taldı yladı kulturlardı sularlarılı ildə ildə ildə ildə ildə ildə ildə ildə	YAPISAL FIZIBILITE BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE Beton numunoleri; alradite laboratuvarlarda basma dayanım təstlerine tabi tutulur, doyanıldılik seviyesi belirlerir ve roportanı.
10:38	10:40	It was stated that the samples were taken from places that we stripping and the places where concrete samples were taken Image 7 PRESENTATION FILE SHARED SECTIONS_07 YAPSAL FIZIBILITE TARRBATU TEST SONRASI ONARIM Poje kapasamındı garçaleleştirlen tahribatlı muayen ununelerin; binay appasal hasar vermeles Sek konu. • Denir ramunuler kuvel olinda kolnayon fikzu. • Iolon symmas sonucu tahrap olan kısınlar ve bet yıkısık mukrosmell delgu İncelen kullenlerek de	n will be filled with high-strength filling mortars and repaired.







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Paydaş Katılımı Toplantı Raporu

2023

10:40	10:45	General explanations regarding occupational health and safety plans were made within this framework;
		 Matters taken into account within the framework of OHS plans are explained item by item. 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. General OHS rules and precautions to be taken especially for environmental safety were mentioned. 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. 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. 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. 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. Projected social impacts related to indoor observation, test and inspection activities are stated in the OHS plans. It has been underlined again that the samples to be taken will not adversely affect the building's structural aspects. Image 8 PRESENTATION FILE SHARED SECTIONS_08
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10 : 45	10:53	 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. In addition to the structural feasibility, it was stated that studies will be carried out on the energy efficiency of the buildings and various controls and examinations will be carried out in order to understand the current situation of the building before these. 									
		ımag	ge 9 PRESENTATION	FILE SHAR	ED SI	ECTIONS_09					
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10:53	10:56	Clarifications were made regarding stakeholder engagement, receiving and evaluating suggestions and grievances, and informing the relevant parties about this process (decisions taken regarding suggestions and grievances, additional measures implemented, etc.) It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes. It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181. Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods. It was announced that the grievances about gender-based violence (harassment, abuse, etc.) and gender-based discrimination, which were made within the scope of the project, will also be evaluated within the scope of the grievance resolution mechanism. Image 10 PRESENTATION FILE SHARED SECTIONS_10 ONERI ŞIKAYET SISTEMI
10:56	11:22	Participants' questions were received and answered. CLOSING speech was made and the meeting was ended. Image 11 PRESENTATION FILE SHARED SECTIONS_11









Questions and Answers

AnnexVI, Table 2: Question & Answer List

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER
01	Participant 1	Is it possible to share business plans for us to plan as well?	Birsen Bakır	It has been said that it will be shared after the tender process.
02	Participant 2	What is the duration of the SREEPB project?	Ganime Güzel	It has been stated that the project phase will last for a maximum of 12 months, covering a total of 28 months.
03	Participant 3	How will the process progress after the analysis?	Birsen Bakır	It has been stated that reports will be prepared, suggestions will be given, projects and specifications will be prepared at the same time, a stakeholder participation meeting will be held after the completion of the projects, information will be given on topics such as what kind of retrofitting and energy efficiency investments will be made in buildings.
04	Participant 4	It is difficult to remove some equipment from its place, will we be informed in advance?	İsmail Ozan Demirel	It has been stated that the 12-month period is the stage of making a retrofit project and going out to tender for all buildings, and a retrofit scheme will be drawn accordingly when you inform the rooms in which these equipments are located. It was stated that when the project is finished, the administration will be informed about its suitability, necessary revisions will be made if there are objections, and it is planned to complete the applications related to the retrofitting within 14 months from the conclusion of the construction tender.





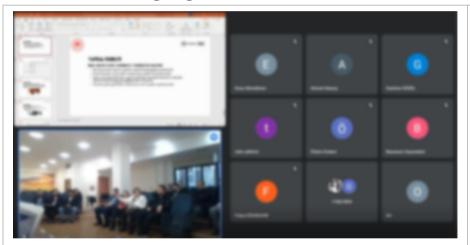


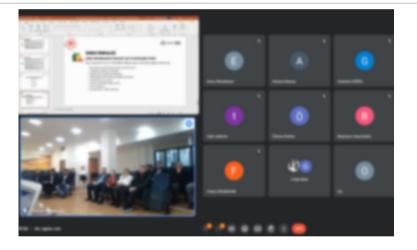


MEETING NOTES & GENERAL EVALUATION

- 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.

AnnexVI Table 3: Meeting Images

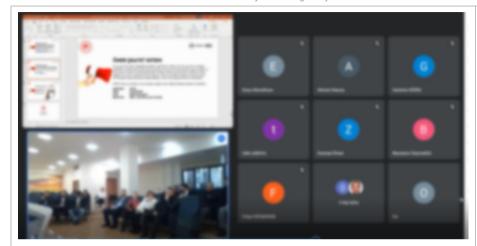






















Participant List and Contact Information

Participant List and Contact Information

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

CONSULTANCY COMPANY PARTICIPANTS

- 1) Birsen Bakır (Electrical Engineer)
- 2) Hüseyin Tavaslıoğlu (Energy Systems Engineer)

PROJECT IMPLEMENTATION UNIT PARTICIPANTS

- 1) Ozan Demirel (Project Implementation Unit Construction Specialist)
- 2) Utku Kadıoğlu (Civil Engineer)
- 3) Semahat Dicle Maybek (Social Expert)
- 4) Tülün Yıldırım (OHS Specialist)
- 5) Zeynep Ünsal (MSc Civil Engineer)
- 6) Koray Demirkaya(Progress Compensation Expert)
- 7) Cemre Özdemir (Mechanical Engineer)
- 8) Özlem Erdem (Electrical and Electronics Engineer)
- 9) Giray Şamil Yıldırım (MSc Civil Engineer)

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.







2023



Stakeholder Engagement Meeting Presentation









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KAMU BİNALARINDA DEPREM Dayanımı 8 enerji verimliliği PROJESI

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





https://kamuguclendirme.csb.gov.tr

PROJE HEDEFLERI

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

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

hedeflenmiştir.











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











YAPISAL FIZIBILITE

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





GENEL AŞAMALAR

Proje & ihale dokümanları ile birlikte;

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



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

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











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ZEMIN ETÜDÜ-

Bu kapsamda gerçekleştirilecek test & numune sayıları aşağıdadır;

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Zemin etüdüne ilişkin risk analızı gerçekleştirilmiş, i<u>s sağlığı ve güvenliği plonlan</u> hazırlarınış ve çalişanlara aktanlınıştır. Paydaşlarımızın bu çalişmalara ilişkin dikkat etmeleri gereken konular şunlardır.

- Kuzokli sondaj makinesi, komyon morifeti ile sondaj noktalanna iletilecektir. Söz konusu kamyonlann kullanım, manevralan esnosnda timesnin zarar görmemesi için zarun haller dişinda 20m'den fazla yaklaşılımansı gerelmektedil Kamyon ve ği makinelerinin azarın kızısının 20 tim'dir.
- Sandaj kulesinin kaldırılması esnasında, kule etki alanı içinde bina elemanlarının, ağaç dallarını vb. olmadığından emin olunmalıdır.
- umladığındırın karılının k
- Sondaj işlemi esnasında gevredeki teknik kadroların tazdan etkilenmemesi için yarım yüz maskesi kullarımı önerilir.
- Sandaj işlemi esnaunda gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle gevredeki bireylerin konsantrasyorlarının alurıssız yönde efkilenmesi muhtemeldir.
- Çalışma sonrasında araştırma çukurları ve sondaj delikleri kapatılacaktır. Bu suretle takılma, düşme riskleri bertaraf edilmiş olacaktır.



İŞ SAĞLIĞİ GÜVENLIĞİ - ÇALIŞANLAR Çalşanlanı tanının aşağıda belirillen ve kendlerine teslim edilen kişsel kovuyucu dananınları dalpilni şəkliddə kallarmadışı yökimi baldının son kallarılı saylarılarılı yökimi baldının taşımayan/kullanmayanların çalışmalarına izin verilmeyecekti



- · Baret TS EN 397+A1
- Kulak Tıkacı TS EN 352-2
 Koruyucu Gözlük TS EN ISO 16321-3
- Cenel Amaçlı İş Eldiveni TS EN ISO 21420
- · is Avakkabis TS EN ISO 20347
- Yanım Yüz Maskesi TS EN 140
- Paraşüt Tipi Emniyet Kemeri TS EN 361 (Sadece S







ATLASCORT HILL









İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR

Acil durumlarda çalışanların toplanacağı bölgeler, deprem riski de dikkate alınarak







MESLEKI YETERLILIK

Sondaj çalışmaları yetkili <u>Sondörler</u> tarafından gerçekleştirilecektir. Sandör: Sandaj makine ve ekipmanlarını kullanarak yer altı ve yer üstünün doğişik katmanlarında sandaj lokasyon hazırlığı, sondaj kuyusu oçma ve numune almo gibi işlemleri yapan kmsedir.

Sandaj makinesi taşımada kullanılan kamyonlar; \underline{C} sınıfı ehliyet sahibi şəförler tarafından kullanılacaktır.



CEVRESEL ETKILER

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



- Sandaj işlemi esnasında gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bireylerin konsantrasyonlarını olumsuz yanda erkilenmesi muhtemeldir.
- birejenin karauntasponlarının durmuz yarda etilelerinesi muhamideli. Sordiği mülkenin kuruntasponlarının durmuz yarda etilelerinesi muhamideli. Sordiği mülkenin kurunda seri pageti kurunda eneis pedele kullarılarıdı kazın müzazi yağı termidenecik kontonme olmuş taprak kurulası seri kurunda seri padele kurlarının deşi deyenin termide kurlarının deşilerdendirili.

 Sordiği syunum kontolazı yayılınının engellerinesi için sordığı noktarında yışını konoları olgunlarının deşilerinesi için sordığı noktarında yışını konolarındı (zazının ili yürilerindireciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindiriciklir ili var ağının aradığı yürilerindirili ili vara ağının ağının aradığı yürilerindirili ili vara ağının ağının aradığı yürilerindirili ili vara ağının
- Sondaj galgmalan esnasında artaya gıkan an klar ve galşanların atkları (İçecek şiyeler, plastik yemek kapları kö, ismiflandırlarık faydalanısı ildərenin göstereceği alanlarda geçic olarak depolarısacıktır. Söz konusu ankların ayrıstımlırasıva depolarınsısı projede görev alan galşanların surumlulgundadır.



SOSYAL ETKILER

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

- Sandaj galişmalarının, bina dayanımını olumsuz etkilemesi soz konusu değildir.
- Sandaj çalışmalan esnasında bina kullanıcılarının ve diğer paydaşların gürültü vib. etkilerden olumsuz etkilenmemesi için gerekli planlama konusunda saha personellerine yardımcı olmanızı rica ediyoruz.
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 - Projede görev alan çalışanların, hiç bir koşul ahnda paydaşlar ile tartışmaması hususunda gerekli uyanlar yapılmıştır. Bayle bir durumla karşisiçişilması halinde öneri ve şikayet mekanızmaları yaştasıyla bizlere ulaşmamızı beklyanızı (Önen 8 şikayet susun)
 - Bütün galişanlar ayırımcılik, cirisiyet temelli şiddet konusunda bilgilendirilmiş ve proje kapsamında bu tip dovranişlara hiçbir şart ve koşul altında zirin verilmeyeceği bildirilmiştir. Bu yeklaşıma aylan hareket edenlerin, projede görev almasına ya da gövelerinin devamlığılar anüsacide edilmeyecektir.











YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI, TAHRIBATLI / TAHRIBATSIZ MUAYENE

- Bina zemininde araştırma çukurları açılarak <u>temel gözlemi y</u>apılacaktır.
- Donatı boyutları ve konumları incelenecek, projeler ile kıyaslanacaktır.
- Taşıtıcı yapı elemanlarından, uygun boyutlarda numuneler alınacak ve akredite laboratuvarlarda dayonim testlerine tabi tutulacaktır.
- Yerinde yapılan gözlemler ve laboratuvar test sonuçları raporlanacaktır.











Demir teselt cihazları ile bina taşıyıcı elemanlarının içinde yer alan donatıların (demir); konum'an, dizilimleri ve aralıkları belirlenmeye çalışılır.

2023











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Donati ve etriye nedir?

- Donatt: Beton içerisindeki çelik çubuklardır. (Beton basınca kaşı çok iyi çalşan bir matzema olmasına rağmen, çolma dayanımı çok diçültür. Çolma bölgəsindəki gerilmeleri kaşılamak üzere, bu bölgeye çelik çubuklar yerleştirilir.)
- Etriye: Kolan, kiris gibi taşıyıcı sistem elemanlarının; boyuna donatılarını saran, inşaat çeliğinin bükülmesiyle elde edilen bir sargı donatsıdır.







YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

BINA TASIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Bina zemin/temel kontrolü için; temel kalınlığının bir miktar altına inilecek derinlikte

and zerini ytarisı izden direktiri kili kili kili yazırlığı kili yazırlığı kili yazırlığı yazırl

Numunelerin cıkarılması:

- Donati kontrolü için belirlenen yüzeyler üzerindeki; boya, alçı, sıva ve beton karmanlar, kırıcı marifeti ile kaldırılır, suyrılır. Bu suretle kontrol edilecek demirler ortaya çıkanlır.
- Çıkarılan donatı (ettiye ve boyuna donatı) üzerindeki beton kalıntılar ve pas, uygun boyutta metal firçalar kullarılarak temzlerir.
- Donatı çapları tespir edilir, dayanım testi için numune filiz başlarından vb. spiral taş marifeti ile demir çubullar kesilir.











YAPISAL FIZIBILITE

Taşıyıcı yapı gözlemleri ve numune tespiti;

 Betan ve demir numunesi almacak bölümler işaratlenir. Numune etiketleri daldurulur ve numune alınacak yüzeylerin yanına iliştirilir.

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BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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







BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Kolon, kiriş nedir?

- Kolon: Sütun olarak da bilinen, taşıyıcı sistemde düşey yapı elemanlarına verilen ismdir. Yapıda diş ve iç etkilerden oluşan kuvvetleri (mornent, kesme kuvveti vb.) temellere, dolayısı ile zemine aktarırlar.
- Kiriş: Yapılarda döşeme ve kullanım alanı yüklerini düşey taşıyıcılara (kolon) aktaran







ATTASCATÉ HILL

YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

- Taşıyıcı beton kontrolü için <u>kolanlardan</u> 10cm çapında 10cm derinliğinde, silindirik numunelerin çıkanlması:
- Karot makinesi, numune alinacok nohtaya hedeflenerek uygun qapta dübel / vida kullamlarak sabitlerir.
 Karot makinesi çaliştirlir. Makine uygun devirda dönerek ve işlem yapılan nohtaya uygun militarda su aktoracık delme işlemine baylar.
- 100-150mm derinliğe ulaşıldığında cihaz yatağı üzerinden karot ucu geri çekilir ve cihaz kapalı konuma













YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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







ATLASCOT HILL

ATLASCON' HILL

YAPISAL FIZIBILITE

TAHRIBATLI TEST SONRASI ONARIM

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

- Demir numuneler kuyyet altında kalmayan filiz uçlarından vb. noktalardan alınmaktadır.
- Kolon syırması sonucu tahrip olan kısımlar ve beton numunesi alınan bölümler yüksek mukavemetli dolgu harçlan kullanılarak doldurulacak, onanlacaktır.



















İŞ SAĞLIĞI GÜVENLIĞI Bina içi yapısal gözlem, test ve muayene çalşmalarına ilişkin risk analizi gerçekleştirilmiş, iş sağlığı ve güvorliği pionlan hazırlarmış ve çalışanılara aktarlımıştır. Paydaşlarmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

ATLASCOT HILL

ATLASCON' HILL

ATLASCOT HILL









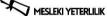
İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR

Çalışanların tamamı aşağıda belirtilen ve kendilerine teslim edilen kişisel koruyucu donanımları disiplinli şekilde kullarımakla yükümlüdür. Söz korusu donanımları uygun şekilde taşımayan/kullarımayanların çalışmalarına izin verilmeyecektir.



- Baret TS EN 397+A1
- Kulak Tikacı TS EN 352–2 Koruyucu Gözlük - TS EN ISO 16321-3
- Genel Amagli is Eldiveni TS EN ISO 21420 is Avakkabus - TS FN ISO 20347
- Yanım Yüz Maskesi TS EN 140





- Sahada gerçekleştirilen yapısal dayanım testlerinin tamamı İnşaat Mühendisleri tarafından ya da gözetiminde (tekniker, teknisyen) gerçekleştirilmektedir.
- Rölöve çalışmaları Mirnar, Makine Mühendisi ve Elektrik Mühendisleri tarafından gerçekleştirileçektir.



CEVRESEL ETKILER

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

Kazi, kirim, karet ve onanım harei hazirlama esnasında görevli olmayan paydağlar, çalışma noktalarına 5m den fazle yaldışmamoliclir. Bu sırefler, çıkıan toz, yülsek gürüllülere uzun süre maruziyet, fırlayan appal/betin pargolarından etki lerine i hirinal otradan kallacaktır.

g-puny we wii punyurannoan etti iermei intimali ortadan kalkiocaktir. Çalişmalara eşîk edecek bina teknik kadrolarının/çalışmalarının; kazı, karot ve kemi işlemlerini yalından talış elimenesi, bu çalışmalar esnasında loz maskesi, konyucu gödlük ve baret kullarınından gerelmektedir.

Çalışmalara eşlik eden teknik kodrolar; uzatma ve diğer elektrikli ekipmanlara temas etmemelidir.

Calismalara eşilk eden teknik kadrolar, elektrikli cihazların bağlana bilmesi için, kaçak alırın korumalı hatlardan besilenen uygun prizler seçmelidir.

Çalışma sonrasında araştırma çukurları, sıyırma işlemi yapıla kolonlar ve beton numunesi alınar bölgeler tamir edilecektir.

- Kınım, karat, spiral işlemi esnasında gürültü, anlık olarak 105dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bi reylerin karsanıtrasyonlarının olumsuz yönde etkilerimesi muhremekdir.
- permouseursyen in zonammagontanna ourma, yöndide eftellerinnetia mürtemeldir.
 Kirem ve karart esinasinda ordnya çikan artikaf (alar, siva de betan parçalan /fazika, demir tadan, çapadian, pançalm) görevil telmik uzmanlar ve çolişanlar farartikafan termizenceki ve faydalarınıcı kların tarafırdan gödelinle hülgileride giyeştinllarık depolanaccılar. Bu çalşımdara bağlı addı mirtarda artik çilması bekirinmenletikin.
- oekennementeraur.
 Tieme hargismen kullarınını eirasında çıkan anilan, üretici tarafından beyan edilen şekilde (MSDS-Marterd Safer) Data Sheer (Türkçes Gürenin Bilgi Formu (GBF) alandı adandırdırındıradı;)) sanıflandırılladı vi doyladınısıldıradı tarafından gastellen bölgelere aynıştırlarak depolanacakın. Bu çalışmalara bağlı adalı mi Harda atik girman bellenmenekedir.
- Projede görevlendirilen teknik uzman ve çalışanların, içecek ve yiyecek tüketimlerine bağlı ortaya çıkacak geri dönüştürülebilir atklanının tamamı, bina içinde tesisi edilen geri dönüşüm kutularına atlır.



SOSYAL ETKILER

Bina içi gözlem, test ve muayene çalışmalanna illşilin öngörülen sosyal etkiler, İSG planlarında bolirtilmiştir. Söz konusu atkilor ve alınması gorokon önlemler bütün çalışanlara bildirilmiştir. Bunun yanında poydaşlanmıza aktarmak istediğimiz hususlar şunlardır;

- Bina içinde gerçekleştirilen tahribatlı muayenelerin ve alınan numunelerin; bina dayanımını olumsuz. etkilemesi söz konusu değildir.
- Test ve numune temini esnasında; bina kullanıcılarının ve diğer poydaşların gürültü vb. etkilerden olumsuz etkilenmemesi için gerekli planlama konusunda, saha personellerine yardıma olmanızı rica ediyonuz.
- Teknik uzmanlanımızın ve çalışarılanımızın; gevresel etki ve gürültülerden etkilenmesi olasıdır. Çalışmalar esnasında, kullanıcı ve diğer paydağlanın çalışma alanlarına yaklaşmamalan hususunda yapılan uyanlar dikkate doisek deskek vementir irica odyorun.
- Test, muayene çalışmaları sonrası, çalışma sahalarında gerekli düzenlemeler, görevli personeller tarafından gerççkleştinlecektir. Bu konuyu ilişkin şikayetletinizilüt fen bize bildirin.
- Projede görev alan çalışanların hiç bir koşul ahnıda paydaşlar ile tartışmaması hususunda gerekli uyarılar yapılmıştır. Böyle bir durumla karşılaşılması halinde öneri ve şikoyet mekanızmaları vasitasyıla bizlere ulaşmanızı bekhovuz, (Zone & şikoyet sureci)
- Bütün çalışanlar ayrımcılık, cinsiyet temelli siddet konusunda bilgilendirilmiş ve proje kapsamında bu tip davranışlara hiçbir şart ve koşul altında izin verilmeyeceği bilairilmişti. Bu yaklaşıma aykın hareket eden projede görev almasına ya da görevlerini davramlıklışına müsaade edilmeyecedir.





Yüklenici firmaların uymaları gereken iş sağlığı ve girvenliği kuralları ile genel çevresel sosyal etkiler/önlemler; bu proje özelinde hazırlanan İSG planı içinde açıklarmıştır ve





ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

Bina enerji performansını ciddi şekilde etkileyen yapı ve sistemler aşağıda sıralanmıştır,

- Bina cephesi, cephe bileşenleri (kapı, pencere) ve çatı.
- Sirkülasyan matarları ve pompaları.

ENERJI VERIMLILIĞI

- Merkezi cebri havalandırma sistemler
- Merkezi (dimlendirme sistemleri (solžutma ve isitma).
- Sıcak kullanım suyu üretimi.
- Yerinde sürdürülebilir elektrik üretimi
- Bina otomasyonu.
 Enerji yönetim ve izleme sistemleri







ATLASCON' HILL





ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

- Bina dış cephe bileşenleri, pencere ve kapılar ile çerçeveleri, çatı tipi ve bileşenleri termal yalıtım becerisi çerçevesinde incelenir. Bunun için Mexcut cephe ve çatı yalıtım katınarıları ve sil geçirgenlik katsayılan belirlerir, termal kameraları ile si koçadıları teşpil edilir.
- Her bir elektrik motoru kontrol edilir. Verim sınfı, imal yılı, vibrasyon, çekilen akım ve güç, frekans kontrolü gibi parametreleri/özellikleri belirlenir.
- Her bir merkezi havalandırma ünitesi, performans testlerine tabi tutulur, hava hızı ve basınç değerleri, çekilen toplam güç, motor devri gibi veriler belirlenir.
- Her bir merkezi soğutma ünitesi, performans testlerine tabi tutulur. Anlık enerji tüketimleri, kapalı çevrim sıcaklık, basınç değerleri ve akışkan debisi belirlerir.
- Her bir merkezi kazan ünitesi performans testlerine tabi tutulur. Baca gazı analizi ilə yanma verimi bəlirlənir. Kazan tərmal kayıpları, anlık tüketim verileri, kapalı çevrim akışkan sıcaklık ve debi verileri tespit edilir.









Bina elektrik sistemi, kesintisiz güç kaynakları vb. yapılarla birlikte incelenir. Asgari 24 saat enenj kalite analizi gerçekleştirilir. Bu surelle bina elektrik sistemi, harmonik bazulma soviyelerini içorecek mahiyette gözlenir.

değarlandirilir. Şalt ekipmanları termal açıdan sorgulanır, bu suretle problemli şalt ekipmanları ve linye hatları belirlenmeye çalışılır.

Bina topraklama sürekliliği soraulanır. Kacak akım koruma sistemleri ve etkinliği

Bina enerji izleme sistem kurulum imkanları gözlenir. (Kolon ve linye hatları

dağılımları, pano boyutları ve iç boşluklar, pano konumları, izleme sistem elemanlarının kablolama imkanları vb.)

Bina lokasyonlarının hava koşulları, çevre ve yer altı patansiyel isi kaynakları sorgularır. Mevcut tesisat bileşenleri dikkate alınarak isi pompası vb. imkanlar değerlendirilir.







ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI









Bina enerji performans tetkilderine ilişkin risk analizi gerçekleştirilmiş ve önlemler belirlenerek çalışanlara altanlmıştır. Bunun yanında paydaşlarımızın bu çalışmalara ilişkin dikkat otmolori gereken konular şunlardır.

- Elektrik sistemine ve büyük elektrikli cihazlara (chiller gruplan ve), I test problan yerleştirilecek ve uzun süreli gazlemler yapılacaları. Saz konusu panolara yetkisiz ikişlerin yaklaşması tehlikelidir. Bu nedenle saz konusu panolanı bulundu, du cilarlar kitiformeldir.
- Ölgümlerin tamamına bina teknik personel/personelleri eşlik etmeli; cihazların devreye alınması, devreden gikariması, cihaz koruma mahfazalarının açılması vib. uygulamaları bizzari yetkili bina teknik personelleri gerçekleştirmildir.
- Bina teknik personelleri; havalandırma üniteleriyb. cihazlara güvenli erişim yolları (çatı üzeriyb.) beli iremeli ve görevli teknik personelleri yönlendirmelidir.
- Bina teknik personelleri; anzalı ve riskli cihazlar konusunda görevli teknik personelleri uyarmalıdır.
- Bu aşamada tahribatlı muayene vb. durum söz konusu değildir. Teste tabi tutulan cihazve sistemlerin, gerçekleştiri testlerden dolanı zarar görmesi, tahrip olması söz konusu değildir.



ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

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













CEVRESEL SOSYAL ETKILER

Berji verimilliği perspektifinde gerçekleştirilen gözlem, test ve muayene çalışmalanna ilişkin olumsuz bir cewesel etki beklenmemektedir. Ancak teknik uzmanların içecek ve yiyeceklerinden kaynaklanan balaj atıkları geri dönüşüm ilkesi çerçevesinde değerlendirilir. Bunun ya etkiler aşağıda sıralanmıştır,



- o umusu an enem nazu sanau angarun. Calipmalar remarunda, kulanian ve diğar paydayların çalışma alanlarına yaklaymamaları husununda yapıları uyanları dikarte öreni, destekvermence isas ediyoruz.
- Test, muovene galismalan sonrasi, ga isma sahalarinda herhangi birikrilik olusmasi bekenmemekle birikre, oluşabilecek olası krilik rovotimadan berhavdı adılazektri.
- Ozellike elektrik kai te analtzi ve topraklama algümleri esnasında, birra enerjisi kısa süreleri için kesilebilir (kaçak akırı sisteminin derveye girmesi vi, İbu durundan bir akıılamıcılarını efiklerimemesiliçin (bilgisoyar verilericin kaybedilmesi isk) yapılaraklıyları va düzellerimaları uyulması atından azı atındıkları.
- Projede görev alan çalışanlarır hiç bir kaşul altında paydaşlarile terişmamanlırısısı, inda gerekli üyenlar yapılmıştır.
 Böyle bir durumla karşılaşılması halinde önen ve şikoyet mekanizmalan vasınasıyla bizleve ulaşmanızı bekliyaruz.
- Bülün çaişaniar ayırmalık, cinsiyet temeli şiddet konusunda öligilend ilmiş ve proje kapsamında bu tip daeranşlara hickir şari ve keşu allı ridatzin verilmiyezeği bi kilintiştir. Bu yaktayına aylını hareket edenlerin projede görev alımasında görevilenin deven hiliştir müsaadle edilmiyezektir.



ÖNERI SIKAYET SISTEMI

Öneri ve şikayetlerinizin; içeriği ne olursa olsun, nasıl kaleme alınırsa alınsın bizim için değerli olduğunu bilmenizi istiyoruz. Genel etik likelere uygun ileteceğiniz öneri ve şikayetlerinizden dolayı olumsuz herhangi bir durumla karşılaşmayacağınızı, eleştirilmeyeceğirizi garantı ediyoruz. Öneri ve şikayetlerinizi hangi yöntemle iletirseniz iletin (matbu, mail, internet formları ya da telefon) hepsi aynı şekilde değerlendirilir, tamamı gizli bilgi statüsündedir, tarafsız bir kurul tarafından incelenir

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



ÖNERI ŞIKAYET SISTEMI

Çevre, Şehirci lik ve İklim Değişikliği Bakan iğihin (ÇŞİDB) hem telefon hem de web sitesi aracı iğıyla genet, sem tals ver tilan til verste flere gjenet godarning mit gjeste jan til rette flere statistica statistic

KADEV projesi jain sikavet ve äneri sahipleri asačida verilen farklı kanallardan taleplerini iletebilirler

: Ale 181 : 0.312 586 4858 : ytgmtxadev@csb.gov.tr : https://kadevonerl.csb.gov.tr/onerl.jsp





















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

WB/CS-DESSUP-01 Building Name ISTANBUL UNIVERSITY
CERRAHPAŞA RECTORATE

BÜYÜKÇEKMECE CAMPUS

Date 29.03.2024 Start | End Time 10:30 | 11:28

Project

Code

START TIME	END TIME	ACTIVITY
10:30	10:33	Meeting kick-off speech
10:33	10:35	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.
		 As of 10:35, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.
10:35	10:38	Information was given about the SREEPB project and its objectives.
		Image 7 PRESENTATION FILE SHARED SECTIONS_01







		MANUS BAULASTRA DEPEND AND AND AND AND AND AND AND AND AND A
10:38	10:45	sismikriskaltundave enerjiverimilligi dispiksyliseköjfertim binalari, yuritar, sosyal hizmek kurumin, hastaneler ve hikkimet konaklari gibi kamu binalannda sismik gibi endime ve enerji verimiligi odalamnıştır. Bu sunum, ilü Cerrahpaşa-Avclar Kampüsü Rektörük İdari Binası, Kültür Merkezi ve Merkez Laboratuvarı yapısağı gidendime ve enerji verimiliği odaklı iyileştirme çalışmaları hakkında bilgi verecektir. 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.)







Image 8 PRESENTATION FILE SHARED SECTIONS 02 ATLASCOPT HILL ATLASCOT TILL Yapım Aşaması Yapısal Güçlendirme - Monottayyaristanığığındırmas vehtayı sizemin aktoru, - Yapısı güçlerdirma tallarılarının biği doğumu talanı eleve kipine teknilik Enerji Verimliliği Ceptus segacioemal yaktuur Sincilizayon sistem motoripa mpa degigimieri ATLASCON' HILL ATLASCOT HILL Yapısal Güçlendirme Yapısal Güçlendirme Taşıtıcı Sistem Güçlendirme Taşıtıcı Sistem Güçlendirme Güçlendirme perröleri ve kolon mantolan yapılarak akslardaki duvarlar işaretlenerek en ist kattan başlaracak şödide, bahoc ve brun manfetyle yelakcaktır. Davar yelem öncesi zarar görme sirki barındaran ksap, pencere, verifiye, tegişir, delektik ve mekanlık tesseri eleptrarıları sökülerektir ve Faydalancı kurum tandırıdan gösterilen alanlarda geçici muhafaza edi eceldir. Söküm işleminden sonra güçlendirme elemanlarının termellere bağbannası amacıyla perde ve kolon mantosu çevresinin açlıması işin subasman betenururu iranlması ve termel içi dölgasurun kazılması gerelemektedir. Bu kırım ve kazı işlemleri el ile (ikon ve balyoz yardımıyla) ve/veya yaşı içorisine girebilen küçük matimelerle (bobcat/vb.) gerçekleçtirilecektir. ATLASCORT HILL Yapısal Güçlendirme Taşıyıcı Sistem Güçlendirme Krm ve kan işlemleri tamarılandıktan sonra mevrut kolon, kiriş ve temellere ankraj (ubuldan çaklır. Ankraj delikleri debay projektindeki öyülere uygun olarak ödeti matlaqabrin mevrut elemanlara delik açılması, deliğin hava kompresori il ele temellerense, oleşki yapşıtınanın delik içeriline sıklıması ve önceden hazırların ankraj demirinin delik içerisine solulması şeklinde yapılır.







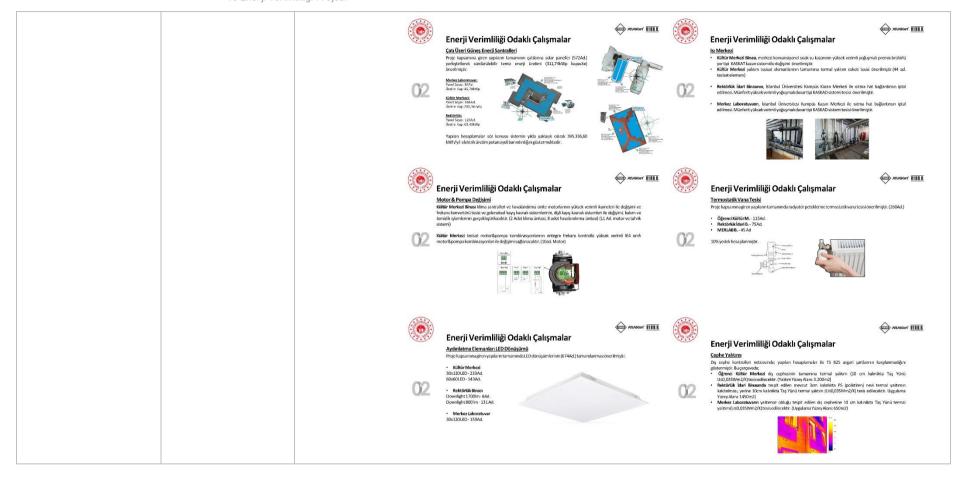
		Vapisal Güçlendirme Taytırd Shtem Güçlendirme Antra i maistin ile bender giçlendirme donatorun döşemenli şierine bişlinrocaktır. Donatir rumune kontrolleri sonar Phylocod Kaligiral kapıtalırı kir üci kit dişemelinden yerleşin betori" (ince agreşii), siper alışılarına taklakteri gölürleri saklakteri sakla
10:45	10:53	 The renovations to be carried out for energy efficiency determined as a result of the survey are explained in detail. Solar Power Plants Heating Center Renovation Motor & Pump Replacement LED Conversion Automation System Facade Insulation Terrace Roof Insulation Exterior Door Replacement Image 9 PRESENTATION FILE SHARED SECTIONS_03







2023









			ADASON IIII		ADDOOR HEEL
			Enerji Verimliliği Odaklı Çalışmalar Catı Yalıtını Verinde spolan inceleme netioninde çatıda yapılan hesaplamalar mevcut termal yaldınını TS 825 şartlarını karşılamadığını ortayakonymaldadır. Bu çerçenvede; - Rekstilik Bhasa Kima Citira ora boşlağına 15cm kalnlıkta bir yünü alüminyem folyo kapılı termal yaldının		Enerji Verimliliği Odaklı Çalışmalar Kapı Değişimi Büün yaplında tepit edilen tamal yalıtmısı ve tek camlı kapıların, termal yalıtmısı sahip ikameleri ile (0.15irli caml) değişimi övrimlişiri. Öprenik tültür Merked
		02	Recentified death of the size of a Copylight of the State of the	02	Ugent Automotive Prize 12 3 4 5 6 7 7 7 7 10 2 10 2 10 2 10 2 10 2 10 2 1
			Enerji Verimliliği Odaklı Çalışmalar Pencere Hilleri ve Kapı Mekanizmalarının Değişimi		Enerji Verimliliği Odaklı Çalışmalar Otomayon Sistemi Sütin yapılı Nagar milyötte enerj yöretim saterninin EN 50 50001 standurt şartlarnu uygan bişimde
		02	Yerinde yaplan incemelle romcunda bazı percerelerin ve laplatını qarveyelerinde, as transferi kayatıkla kayatıları attışı beşti ediliştir. Sok bonusu sasikla krayanı vetersir cora filli (hayatıla dolallengi düşünülmlektedir. Poğe kapcamına giren tüm yaplarda pencere fillerinin ve kusuru kapı mekanizmalarının değirinin cemelir. Arka de Fall, 15 Ad. Mekanizma Reladirikli Binası; 277,2m Fell, 10Ad. Mekanizma	02	kun'mas, Enerji üleme sistemirin elderik ve doğluğes birilleri (in kun'ması ve öremli enerji kullandırın tarımırının (basar VV, Motor, Aydını'dı ületterirenin bişlem çaklıcı kiliye eliklerilenin sileminin sağlarmas, melanik otomaşon sistemini ni kun'ması eskiriliğinin sağlarması surreli ile teplim enerji tületirinde "411,74 elektrik, 4515,180 anında doğluğu tarımıla de edilerlilerile hesaplarmışır.
			MERLAR, 1412-m rei, 1,0xd. Melanima		
					All palacer HILL
			Enerji Verimlili Yaplan hasaplamalar neticssinde geçiriməsi le toplare nengi tüt edileblecek, yadaşık 487,80 ton/, 50z konusu renovasyonlar ve y Yönetin Sötem şarılaman uygun t elektrir. 749,396,66 kWh doğlalg tasarrufun maddi boyutu yaldaşık	e belirlenen önlen etiminde 52,80% nl sera gazı emisyo enilenen sistemleri siçimde işletilmesi i az tasarrufu sağlar	n senaryolarının hayata oranında tasarınıf elde nun engellendelindecitir, n EN ISO 50001 Enerji le yılık 22,108,04 MVh abblicecktir, Sc konsus
10:53	10:56	The issues taken in It was underlined out, and therefore evaluated within the	the access of building users will be restricted in	s were e o access n some p	explained item by item. the areas where renovation works will be carried periods. It was reminded that work plans should be







		 The environmental impacts of all studies and the precautions to be taken were conveyed to all employees and the issues that stakeholders should pay attention to were explained.
		Image 10 PRESENTATION FILE SHARED SECTIONS_04
		iş Sağlığı & Güvenliği Yapım direccinlişini, iş sağlığı ve şiveniği slantın haarlamıştır. Yüklenidifirmanır. 1 Tarifirmeca haarlamın iş Sakülü Güvenliği slantın haarlamıştır. Yüklenidifirmanır. 1 Tarifirmeca harlamın iş Sakülü Güvenliği slantın haarlamıştır. Yüklenidi firmanır. 2 Tarifirmeca harlamın iş Sakülü Güvenliği slantın haarlamıştır. Yüklenidi firmanır. 3 Farifici Güvenliği slantın iş Sakülü Güvenliği slantın haarlamıştır. Yüklenidi firmanır. 4 Tarifirmeca harlamın iş Sakülü Güvenliği sakırılamın harlamındır. Sakululi slantının ve külüyen deynamın saylamın saylamının saylamının saylamının saylamının saylamının saylamın saylamının saylamının saylamının saylamının saylamının saylamın
		iş Sağlığı Güvenliği Colgrafiam taranısı iş Sağlığı Güvenliği (Sa
10 : 56	10 : 58	 Information was given about the traffic action plan.









		■ Health & Safety Organization was explained. Image 11 PRESENTATION FILE SHARED SECTIONS_05	
		Trafik Eylem Planı • Kampüsiçin deç kullanmiların ülişkin sonfar İS SAĞLIĞI GÜVENLÜĞI FLANI içinde belirtilinişdir. Sağlık & Güvenlik Organizasyonu	AUNGON, IIIII
		Management of the state of the	
10:58	11:02	■ The environmental impacts of the work to be carried out are explained.	







Image 12 PRESENTATION FILE SHARED SECTIONS 06 ATLASCOT! HILL Çevresel Etkiler Çevresel Etkiler İnşaat çalışmaları sırasında, bölgede hâlihazırda mevcut olan kanalizasyon, elektrik ve su şebekeleri kullarılacılıtır. - Noed allan, bedrije hämetlerinden fryslabniforsk bertsant etiliecek, dijer atiklar ign ise geçid depolama abstant ciksturulup, läsendi translarca betrandran spalmans sagkanscalare. Preje cedende herbands skylap framet, diran gederbest dicramatik floranlisearen bilandrad bilannis sensor ta grape. Malerie skylap framet, diran gederbest dicramatik floranlisearen bilandrad bilannis sensor ta grape. Malerie floranlisearen bilandrad bil ALLASON, BILL ATLASCORT HILL Cevresel Etkiler Çevresel Etkiler Atık Yönetimi Proje kapsamında; Müşavirin, Yüklenici firma personellerine vereceği eğitimler sonucunda, yüklenici firmanın kurumsal kapaşitesinin gelişmeşi beldenmektedir. Bu eğitimler asabidal istelenmiştir. İnsaat, Hafriyat Atıkları: Söküm faaliyetlerisonucunda binaya ait zimmetli malzeme oluşması durumunda bina yönetimine çıkan malzemenin teslim edildiğine dair belge alınacaktır. İnşaut/yıkıntı atıklarının kazanılması ve özellikle alt yapı malzemesi olarak yeniden değerlendirilmes öncelikli olarak ele alınacaktır. Hatriyat atıkları ilgil belediyenin atık depolama tesisine gönderilecekti Atıkların sahayakabıl delikceğine dar Belediyesinden resmiyazı alınarak İdenye sunulcaktılı ATLASCON' HILL Cevresel Etkiler ATLASCORT' HILL Atık Yönetimi Çevresel Etkiler Evsel Atıklar; Atık Yönetimi Oluşacak evsel nitelikli atıklar kaynağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir olarıların geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim Geri kazanımı mümkün olmayan atıklar, ağzı kapalı sıhhi çöp bidonlarında biriktirilecek, Yetkili Belediyenin katı atık toplama sistemi aracılığıyla düzenli depolama sahalarına gönderilecektir. Çalışma sahalarında döküntü sızıntı emici ped kitleri hazır bulundurulacıldır. Görevli bütün personeller tehlikeli kimyasal sızıntı ve döküntüsüne ilişkin korunma ve acil durum eğitimine tabi tutulacaktır. Kontamine olmamış <u>geri dönüştürülebilir</u> atıkların (*plastik, cam, kağıt, vb.)* geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için **çalışanlara eğitim** verilecektir. Ortave büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır. Tadlat/inşaat çalışmaları sırasında sökülen kullanılmış floresan lambalar ruhsatlı tesklerde bertaraf edilecektir. Malazmenin taşınmasına ve bertarafıra ilişkin gerekli belgeler, inşaat şantiyesinde tutulacak ve istenine SCIBB ve Dünya Bankası'nalibar edilecektir. Tehlikeli maddeler ile kontamine olmuş atıkların tamamı, **tehlikeli atık statüsünde** değerlendirilecektir.









11:02	11:04	It has been announced that the works will not adversely affect the building strength.		
		 It has been stated that work areas should not be approached. 		
		Image 7 PRESENTATION FILE SHARED SECTIONS_07		
		Sosyal Etkiler Paydagåamma alstarmak istediğimit hususlar şunlardır; - Sa honau vijendern, <u>jain danaman kandalmanışı il</u> danma udeği dir. - Oka honau vijendern, <u>jain danaman kandalmanışı il</u> danma udeği dir. - Oka honau vijenderin bilgendiri verderin dalamanışı danama vijendiri verderin verderin dalamanışı vijen vişendiri verderin verderin dalamanışı vişendiri verderin dalamanışı vişendiri verderin verderin dalamanışı vişendiri verderin verderin sorana çolman saların algarında ülderinderin yeri verderin verderin verderin sorana çolman saların algarında ülderinderin verderin sorana çolman saların algarında ülderinderin yeri verderin verder		
		Sosyal Etkiller Proje kapsanman, Magnerin Niklerici personeli ne verecegi ejebenler somucunda yöklerici firmanın kurumsal türe kapsanman, Magnerin Niklerici personeli ne verecegi ejebenler somucunda yöklerici firmanın kurumsal türe kapsanman ildərili kapsanın ildərili kapsanın ildərili kapsanın kapsanın kurumsal **Paydas, Calini Nijklericimen ilaşlerderi **Paydas, Calini Nijklericimen ilaşlerderi **Paydas, Calini Nijklericimen ilaşlerderi **Paydas, Calini Nijklericimen ilaşlerderi **Crisyet Eylişi J. Crisyet Etmil şüdder/Cirsel Somuri/Cirsel Sodin/Cansel Taciz **Darseys Grafilar **Tarish Miroson Rocumensu		
11:04	11:06	 OHS rules and general environmental social impacts/measures that contractor companies must comply with; It was stated that it was explained in the OHS plan prepared specifically for this project and communicated to the relevant employees. Image 8 PRESENTATION FILE SHARED SECTIONS_08 		







		Náklericí firmálena spredam proklem (s sájáljí m gávettiji karálim in prod povend songal rédzir / oleminr. by projek optivání kazalimani 165 přem týrok apdáremyšír n Bigli kinin pokrodném katili vojek. Bigli kinin pokrodném telákj redživýti.	
11:06	11:09	Clarifications were made regarding stakeholder engagement, receiving and evaluating suggestions and grievances, and informing the relevant parties about this process (decisions taken regarding suggestions and grievances, additional measures implemented, etc.) It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes. It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181. Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods. It was announced that the grievances about gender-based violence (harassment, abuse, etc.) and gender-based discrimination, which were made within the scope of the project, will also be evaluated within the scope of the grievance resolution mechanism. Image 9 PRESENTATION FILE SHARED SECTIONS_09	
		Oneri Şikayet Sistemi Ondi ve şiyayderindir gorgi me olara utarı, masıl kalamızı almınası oyun eyleyderindir gorgi me olara utarı, masıl kalamızı almınası oyun eyleyderindir gorgi me olara utarı, masıl kalamızı almınası oyun eyleyderindir gorgi me olara utarı, masıl kalamızı almınası oyun eyleyderindir oyun gorun eyleyderindir oyun gorun eyleyderindir oyun gorun eyleyderindir quray gorun eyleyderindir qur	
11:09	11:28	Participants' questions were received and answered. CLOSING speech was made and the meeting was ended.	











Questions and Answers

Table 3 QUESTIONS & ANSWERS LIST

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER
01	Participant 1	When will the project start? When will it be delivered?	Hüseyin Tavaslıoğlu	It was stated that the feasibility was completed, that there would be a 1-month process after the tender process and that the ground delivery would take place.
02	Participant 2	Asbestos was not mentioned. What do you plan to do to prevent the spread of asbestos dust?	Defne Koçak	It was also stated that there is a regulation on this, that it complies with international standards, that an announcement will be made, that the relevant forms will be given to the contractor and that the process will be followed as a consultant.
03	Participant 3	You mentioned a traffic action plan, but there is a lot of construction here, what kind of plan do you have? What kind of OHS plan do you envision for your employees?	Cem Akkuş Tülün Yıldırım	It was said that necessary precautions will be taken for possible students and residents within the scope of the contract in accordance with the standards. It has been stated that the OHS Plan is ready, the Traffic Action Plan has been created, the contractor will prepare its own OHS Plan and these will be audited, and the disposal process will be carried out in accordance with the regulation.
04	Participant 4	The ESMP mentioned energy efficiency in the laboratory, not retrofitting. Will there be interruptions during energy efficiency works?	Hüseyin Tavaslıoğlu	Electrically, it was stated that solar energy and boiler system installation is in question, there are electricity consuming equipment in the new system and there will be interruptions. It was stated that this situation will be agreed with the contractor and necessary measures will be taken by the consultant and the contractor.









KADEV Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği Projesi

05	Participant 5	Aren't the doors to be renovated connected to the existing system?	Hüseyin Tavaslıoğlu	It was stated that there will be a door with thermal insulation with the same features.
06	Participant 6	What kind of work will be done at the cultural center? We cater for 6000 people. 4,000 people eat there. Will the building be evacuated? How long will it be evacuated?	Tülün Yıldırım	During the retrofitting works, the building will be evacuated, the walls will be demolished, the ground will be excavated, it is forbidden for the user to be inside the building, planning will be made for this and this period will be at least 6 months.
07	Participant 7	What about our server room systems, switchboards, infrastructures? How will our network infrastructure and system rooms be protected? How will we get in and out of the room?	Tülün Yıldırım	It was stated that they would be allowed to be accompanied by a companion, that the cables would not be damaged, that the entire system would not be cut, and that if they provided the information, they could talk to the contractor and plan.
08	Participant 8	It was said that the cables will be taken out. Will the electric cables be renewed?	Hüseyin Tavaslıoğlu	It was stated that there was no evaluation within the scope of our project, and that even if it stated that it could not handle the power in accordance with the fire regulations, it would handle it with power saving.









Table 2 MEETING NOTES & GENERAL EVALUATION

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









Table 3 MEETING VISUALS

















Participant List and Contact Information

Table 4 Participant List and Contact Information

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

CONSULTANCY COMPANY PARTICIPANTS

- 1) Fulya Gülbahar (Social Expert)
- 2) Hüseyin Tavaslıoğlu (Energy Systems Engineer)
- 3) Defne Koçak (Environmental Engineer)
- 4) Cem Akkuş (OHS Specialist)

PROJECT IMPLEMENTATION UNIT PARTICIPANTS

- 1) Ganime Güzel (Environmental Specialist)
- 2) Tülün Yıldırım (OHS Specialist)
- 3) Semahat Dicle Maybek (Social Expert)
- 4) Emre İlbey (Civil Engineer)
- 5) Bedri Özdemir (Social Expert)
- 6) Giray Şamil Yıldırım (MSc Civil Engineer)
- 7) Serkan Narin (Branch Manager)
- 8) Cemre Özdemir (Mechanical Engineer)

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







Stakeholder Engagement Meeting Presentation





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







https://kamuguclendirme.csb.gov.tr









ATLASCOT! HILL

ATLASCOT HILL

Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği (KADEV) Projest; yüksek sismik risk altında ve enerji verimliliği düğük yüksek öğretim binaları, yurtlar, sosyal hizmet kurumlar, hastander ve hükümet konaldan gibi kamu binalarında sismik güçlendirme ve enerji verimliliğine odaklanmıştır.

Bu sunum; İÜ Cerahpaşsa-Avcılar Kampüsü Rektörülükldari Binası, Kültür Merkezi ve Merkez Laboratuvaryapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmaları hakkında bilgi verecektir.







Yapım Aşaması



Enerji Verimliliği



Yapısal Güçlendirme

Taşıtıcı Sistem Güçlendirme





Yapısal Güçlendirme

Taşıtıcı Sistem Güçlendirme







ATLASCOR' HILL

01

Yapısal Güçlendirme

Taşıyıcı Sistem Güçlendirme







Taşıtıq Sistem Güçlendirme Ankraj İmalatları ile beraber gü kontrolleri sonrası Plywood kalıpl denilen kalıptan imal edilen hunl süper akışkanlastını







Yapısal Güçlendirme













Enerji Verimliliği Odaklı Çalışmalar

Çatı Üzeri Güneş Enerji Santralleri









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ATLASCORT' HILL

Enerji Verimliliği Odaklı Çalışmalar

- ivierikezi Kültür Merkezi Binası, merkezi konvansiyonel sıcak su kazanının yülksek verimli yoğuşmalı premix brülörlü yer tipi KASKAT kazan sistemiile değişimi önerilmiştir. Kültür Merkezi yalıtım tosisat elemanlarının tamamına termal yalıtım coketi tesisi önerilmiştir.(44 ad.





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Enerji Verimliliği Odaklı Çalışmalar

Motor & Pompa Değişimi

Kültür Merked Binası kima sartralleri ve havalandırma ün'te motorlarının yüksik verimli iklameleri ile değişimi ve
rindamı somerciti'di besis ve gelemicol kayaş kannak sütemlerinir, dişil kayış kannak sütemleri ile değişimi, bakım ve
ternizlik işlemlerinin porçdeğişirli ocektir. (2 Adot kima ünkesi, 8 adot havalandırma ünksi) (1) Adı motor ve tahrik
ternizlik işlemlerinin porçdeğişirli ocektir. (2 Adot kima ünksi, 8 adot havalandırma ünksi) (1) Adı motor ve tahrik
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Enerji Verimliliği Odaklı Çalışmalar

Termostatik Vana Tesisi Proje kapsamına giren yapılar

ıdaradyatör peteklerine termostatik vana tesisi öneril miştir. (260Ad.)







Enerji Verimliliği Odaklı Çalışmalar

Aydınlatma Elemanları LED Dönüşümü



Rektörlük Binası Downlight 1700im - 8Ad. Downlight 800 im - 131 Ad.





Enerji Verimliliği Odaklı Çalışmalar

Cephe Yalıtımı

- pyber Yautura

 o cycle kotorrüleri neticesinde; yapılan hesaplamalar ile TS 825 segari şartalırını naryanındari o cycle kotorrüleri o cycle kotorruleri o cycle kotorr





02







Enerji Verimliliği Odaklı Çalışmalar

Enerji Verimliliği Odaklı Çalışmalar

Kapı Değişimi

illen termal yalıtımsız ve tek camlı kapıların, termal yalıtıma sahip ikameleri ile (4x16x4

Öğrenci Kültür Merk 1-2-3-4-5-6-7:77m2

Rektörlük Binası 1-2-3: 12m2

Otomasyon Sistemi





02

Enerji Verimliliği Odaklı Çalışmalar

Enerji Verimliliği Odaklı Çalışmalar

Pencere Fitilleri ve Kapı Mekanizmalarının Değişimi

<u>Catı Yalıtımı</u>
Yerinde yapılan inceleme neticesinde çatıda yapılan hesaplamalar mevcut termal yalıtımın TS 825 şartların karşılamadığını ortayakoymaktadır. Bu çerçevede;

Rektörlük Binası Kırma Çatsı ara boğluğura 16cm kalınlıkta bir yüzü alüminyum folyo kaplı termal yalıcm siltesil uygulanması önerlimişir. (Uygulanma Yüzey Alanı: 1.100n2) Merkez Labozuture kullanlımışınık arma, çatı va boğluğuna 16cm kalınlıkta bir yütü alüminyum folyo kaplı termal yalıtmı şiltesi (U±0.040Wm2/K) uygulanması önerlimiştir. (Uygulama Yüzey Alanı: 410m2)

Rektörlük Binası; 277,3m Fitil, 10Ad. Mekanizma







Stillin spaln i spann milytette enerji yöretim sisteminin FN SO 50001 standart partianna uygun kuulmans, Enerji ileme sisteminin elektrik ve doğlajas birinleri için kurulması ve önemil enerji artamarının (kizam, York Motor, Ayrishtetimi ületimlerinin bajamız seldler talışı elellebirnesinin sağı imelanik otmasyon sisteminin kuulması elelinliğinin ağılamısısı surelli ile toğlam enerji tülertiminde elektri.—4513, So omada doğlağızı tasınarı'nde ele dilebleregili espaşlamıngızı.





ATLASCORT' HILL



02

Yapılan hesaplamalar neticesinde belirlenen önlem senanyolarının hayata gepirilmesi ile toplam enerji tüketiminde 52,80% oranında tasaruf elde edilebilecek, yaklaşık 457,80 ton/yıl sara gazı emisyonu engellenbilecik. Sör konusu renovasyorlar ve yenlienen sistemlerin EN SÖ 50001 Enerji Yönetim Sistem şarıtlarına uygun biçimde işletimesi ile yillis 523,108,04 kWh elektirik, 749,966 kWh doğagar tasarufu salpambilecektir. Sör konusu tasarrufun maddi boyutu yaklaşık 3,068.109,34k/yıl seviyesindedir.



İş Sağlığı & Güvenliği

om sürecine ilişkin. <u>İş sağlığı ve güvenliğ planlan</u> hazırlarınıştır. **Yüldenici firmanır.** Tarafımıca hazırlarını İş SACILGİ GÜVFBLĞİ PABIL değırıltısırındı, sorumlu ödleği, bizirin çalışını kapısır mahiyette İş SACILGİ GÜVFBLĞİ PABI ve Rek ahıldırıları hazılımısı ve Müşəvir onayına sun zarırıldır. Anak kost konus plan, matiklerin veygun görülmesi sorrasında çalışmalar başlayacıktır.

Paydaşlanmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:









ATLASCOT HILL

ATLASCORT HILL

Enerji Verimliliği Odaklı Çalışmalar









ATLASCORT' HILL

ATLASCET! HILL

ATLASCOT' FIIII

İş Sağlığı Güvenliği

- Sahuda kullanian her turki elektrik chuziykirjaman elektrik applan jöveni okküjun upitatar PAT testeri yapılma çimalarlı Sak lovusu eliyanarları manımadı ohra Guelerinde vegerinlişi göterir elekteri yerimlildir.

 Ancak vagam Mackel Yeterlilli Reğişsike solto çalarılarını saknay gimelerin eli verelicektir.

 Bildir çalarılarılarını eli verelicektir.

 Bildir çalarılarılarını eliktrili elektrik saksanını saknay gimelerin eli verelicektir.

 Bildir çalarılarını eliktrili eliktr

İş Sağlığı Güvenliği

Çalışarıların tamamı iŞ SAĞLUĞI GÜVENLIĞI PLANI içinde belirtilen kişisel koruyucu donanmları disipinil şekilde kullanmakta yikümlüldür. Sör konusu donanımları uygun şekilde taşmayan/kullanmayanların çalışmalarına izin verilmeyecektir.



- Omek kisisel koruvucu donanımlar:
 - Baret TS EN 397+A1

 - Baret TS EN 397-43

 Kudski Tikaca TS EN 185-2

 Korayucu Galdik TS EN 180 16321-3

 Genel Amaylık Dürkein TS EN 180 21420

 İy Ayaklaban TS EN ISO 20047

 Yaren Yüz Maskesi TS EN 180

 Paraşici Tiş





İş Sağlığı Güvenliği







Trafik Eylem Planı

nırlar İŞ SAĞLIĞI GÜVENLİĞİ PLANI içinde belirtilmiştir







Sağlık & Güvenlik Organizasyonu







Cevresel Etkiler

Proje sahası; İÜ Cerrahpaşa Re inşaat süreçlerinden doğrudər lüğü Avalar Kampüsü işerisindedir. Kampüs dışında yer alan diğer binaların İenmeleri söz konusu değildir. Faal iyet alanı çevresi aşağıda gösterilmiştir.















Cevresel Etkiler

İnşaat çalışmaları sıra



Cevresel Etkiler









Çevresel Etkiler

ATLASCORT' TITLE





Atık Yönetimi nşaat, Hafriyat Atıkları



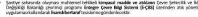
Atık Yönetimi

- Zehirli içeriğe sahip boyalar, eritici madde (solvent) ya da kurşun bazlı kimyasallar kul



Cevresel Etkiler







- Tadilat/inşaat çalışmaları sırasında sökülen kullarıılmış **floresan lambalar** ruhvatlı teisilerde bertaraf edilecektir. Malzemenin taşınmasına ve bertarafına ilişkin gerekli belgeler, inşaat şantiyesinde tutularak ve istenineş ÇİBİVe Dürya Bankası'na ibinz edilecektir.



Cevresel Etkiler

Atık Yönetimi





Geri kazanımı mümkün olmayan atiklar, ağzı kapalı sıhhi çöp bidonlarında biriktirilecek, Yetkili Belediyenin katı atık toplama sistemi aracılığıyla düzenli depolarna sahalarına göndenlecektir.

- Kontamine olmamış geri dönüştürülebilir atıkların (plastik, com, kağıt, vb.) geri dönüşümü sağlanacaktır.
 Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir.
- $Tehlikeli \, maddeler \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, olmuş atıkların tamamı, \textbf{tehlikeli atık statüsünde} \, değerlendir \, ile \, kontamine \, ile \,$









Sosyal Etkiler







- Söz konsus çalişmaların, bira dayarımını olumsuz etklemeşi öx konsus değildir. Göşlendirin ve renxosyon çalışmalarının anda, kullıncı ve diğir peydeğiner çalışma sahalarına yaktasımının birasunda yaktası malanılının diktası alanık deski ve memeliri izi edileyinüt.
 Göçlendirine ve Renxosyon çalışmaları sonrası; çalışma sahalarında gerekli düzerlemeler, görekli personeler anda geçekli düzerlemeler, bir kolmaşı işilişini, şayarlerinini ültirefi biza bildiri.
 7 röydeçi göre vaların çalaşmalarının işir in tayad almıkta paydaşılının tartınmının hususunda gerekli ültirefi bir alalılının işirilerin bir in tayad almıktasının bir ve tartınmının hususunda gerekli uyanlar ultışmanın belilyanın belilyanın belilyanın deşilişmin bir ve tartınmının hususunda gerekli uyanlar ultışmanın belilyanın.

Sosyal Etkiler

Porje kapsamnoda, Müşüvirin Yüklenici personeline vereceği eğitimler sonucunda yüklenici firmanın ku kapsatıcının geliyenisi bekarmındızırı. Bu eğitimler sajağıda istolenmiştir.

- Portanık soğular Balikir

- Paydas, İstafını/Biğlendirma Faliyivetei

- Sitayet Mekanimasi (SM)

- Cimiyet Eşitiği (Timiyet Turnili Şided,/Cirud Sömür ü/Cirud Saidan/Ciruci Tucci:

- Davarraş fixarili

- Tarih Mirasın Korunması











Yülkenici firmalann uymalan gereken iş sağlığı ve givenliği kuralları ile genel çevres sosyal etkiler/önlemler; bu proje özelinde hazırlanan İSG PLANI ve ÇEVRESEL ve SOSYAL YÖNETİM PLANI içinde açıklanmıştır.





Öneri Şikayet Sistemi

Öneri ve şikayetlerinizin: içeriği ne olursa olsun, nasil kaleme altırısa altırısı bizim için değeri olduğunu bilmenizi istyoruz. Genel elli likelere iyyan iletozoğiriz öneri ve şikayeterinizden delay olumusz berharingi bir durumla karşılışmayacağınzı, eleştirimeyeceğinzi garanti ediyonuz, oneri ve şikayetlerinzi hangi yörtemle litelineniz belir (şikayet kutuları), mail , internet formları, yüz yüze süzlü ya da tolefon) hepsi aynı şekilde değerlendiriri, tamamı güzl bilgi statisündedir, tarafısız bir kurul tarafından incelenir.

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









Öneri Şikayet Sistemi





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





ALIASON, HILL İlgi ve anlayışınız için teşekkür ederiz!





