



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

BOĞAZİÇİ UNIVERSITY KANDİLLİ CAMPUS NEW GEOPHYSICS BUILDING

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

2024



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SREEPB | Boğaziçi University-Kandilli Campus-New Geophysics Building

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

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Abbreviations

BP	Bank Procedure
BU	Bogazici University
CİMER	Presidency's Communication Center
Consultant	Tümaş & ATLASCert® & Hill Joint Venture
dBA	Noise Reduction and Control
dBC	Noise Rating Measure
E&S	Environmental and Social
EA	Environmental Assessment
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
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 improvement efforts of the New Geophysics Building (1 Block) located at the Kandilli Campus within Boğaziçi University. It discusses the applicable national and international regulations, outlines measures to mitigate or eliminate potential adverse environmental and social impacts during the projects, and addresses health and safety measures. Additionally, this Environmental and Social Management Plan (ESMP) includes details about stakeholder engagement activities, and the establishment of a Grievance Mechanism (GM), and outlines the responsibilities of relevant parties within the project scope.

Introduction

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) New Geophysics Building (1 Block) located at Boğaziçi University Kandilli Campus Kuleli, Koca Çınar Sokak 10-1, 34684 Üsküdar/İstanbul. The plan aims to outline the necessary measures to mitigate or eliminate potential adverse environmental and social impacts, as well as risks that may arise from the structural retrofitting and energy efficiency-focused renovation activities.

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 "Moderate" level since it is at a moderate level in terms of size and quality and the sub-project sites are not in sensitive areas in terms of environmental, social risks and impacts. They are also not expected to have serious adverse effects on human health and the environment.

The structure covered by this ESMP is located within the Boğaziçi University Kandilli Campus. Other buildings/structures or the campus itself will not be directly affected by the project activities. Additionally, the buildings within the scope will be out of use during the construction activities. Therefore, there is no overlap between the project activity schedule and daily operations.

This ESMP has been prepared as a guidance document for the SREEPB Project to eliminate or reduce to an acceptable level its environmental impacts such as waste generation (hazardous, non-hazardous), air and water pollution, as well as societal health and safety and occupational health and safety (OHS) impacts and risks, considering 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 the preparation and control of the ESMP, while the contractor will be responsible for the on-site implementation of the ESMP.

1.1.2 Project Information

Satellite images of Boğaziçi University Kandilli Campus New Geophysics Building, within the scope of the project, and detailed information about the building are given in Figure 1.1 and Table 1.1, respectively.

Building within the Scope of the Project | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | State | St

Figure 1-1: Boğaziçi University, New Geophysics Building Satellite Image

Table 1-1: Building General Information

8			
CAMPUS NAME Boğaziçi University, Kandilli Campus			
BUILDING NAMES (included in the project) New Geophysics Building (1 Block) (1.100 m2)			
PROVINCE İstanbul			
DISTRICT	Üsküdar		
NUMBER OF USERS	~60 people/day		
	BUILDING INFORMATION		
CONSTRUCTION AREA $\sim 1.100 \text{ m}^2$			
THE PLANNED V	VORKS TO BE CARRIED OUT IN ALL BUILDINGS INCLUDED IN THE PROJECT		
STRUCTURAL REINFORCEMENT	 Existing load-bearing system reinforcement. Additional load-bearing system manufacturing Floor, ceiling, wall and door renovations due to structural retrofitting activities 		
ENERGY EFFICIENCY	 Facade and roof thermal insulation Doors and windows changes Circulation system motor/pump changes Establishment of a new heat center Non-insulated installation elements, thermal insulation installation for heat exchangers Thermal insulation was installed on the heat exchangers in hot water production 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) EN ISO 50001 Establishment and Operation of Energy Management System in Compliance with the Standard Requirements Purchase, Mechanical Automation Establishment of the System and Commissioning 		
	DURATION AND SEASON OF ACTIVITIES		

All work to be carried out within the scope of the project will be carried out between the second quarter of 2024 and the second quarter of 2025. The Contractor is obliged to complete the planned works in the buildings within the specified timeframe as stated in the Job Description. Additionally, 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 60 personnel per day.

1.1.3 Locations of Campus & Buildings

The satellite image showing the campus boundaries is presented in Figure 1-2.

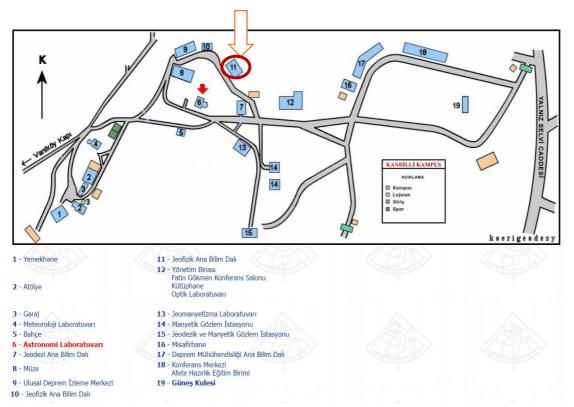


Figure 1-2: Boğaziçi University Kandilli Campus 929 Block/1 Plot Boundaries



New Geophysics Building Coordinates				
No	Longitude	Latitude		
1	29.06108069566872	41.06360226102531		
2	29.06122194937599	41.06366024185765		
3	29.06101082586968	41.06391530068581		
4	29.06087161494017	41.0638551173909		

Figure 1-3: Boğaziçi University Kandilli Campus New Geophysics Building View and Coordinates



During the retrofitting and renovation in the buildings, the potential adverse effects primarily occur within the buildings, and as there is no need for soil improvement works, the impacts that may extend to the outside of the building are limited to noise and dust generation, increased traffic, parking space constraints, vibration, and visual effects. The influence radius on surrounding buildings is limited to 100 meters, and the major impact area 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 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 (Law No. 2872), published in the Official Gazette dated August 11, 1983, and last revised in the Official Gazette dated December 29, 2022, 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 receptors located near the project area. In this context, the careful management of ESMPs and OHS activities will be sufficient to reduce environmental and social impacts.

2.2 2.2 International Conventions

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

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

The project will comply with the national legislation as well as the requirements of the World Bank Environmental and Social Framework¹ (ESF) and the relevant Environmental, Health, and Safety (EHS) Guidelines² 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.

Table 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 ³
ESS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources	No ⁴
ESS7: Indigenous Peoples/ Sub-Saharan African Historically Underserved Traditional Local Communities	No ⁵
ESS8: Cultural Heritage	Yes
ESS9: Financial Intermediaries	No ⁶
ESS10: Stakeholder Engagement and Information Disclosure	Yes

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

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

³ 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.

⁴ 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.

⁵ There are no indigenous groups in Turkey that meet the definition provided in ESS7.

⁶ Since there is no involvement of any financial intermediary institution in this project, ESS9 will not be applicable to this project.

3 Activities to be Conducted within the Scope of the Project

The summary technical information about the structural retrofitting and energy efficiency works to be carried out in the New Geophysics Building at Boğaziçi University Kandilli Campus is given in Table 3-1 below. This ESMP will be accessible to all stakeholders throughout the project's lifespan, both at the construction sites and on the project's website (https://kamuguclendirme.csb.gov.tr/). In addition, in order to ensure that stakeholders participate in the meeting with sufficient information about the project before the information meeting, the draft ESMP will be disclosed on the official website of Boğaziçi University (https://bogazici.edu.tr/) at least 10 days before the meeting. The contractor will employ a full-time environmental specialist, a social specialist, and an occupational health and safety (OHS) specialist; an environmental expert, a social expert and an OHS expert will be employed within the Construction Supervision Consultancy firm. The Consultant, the Contractor and the Ministry's Project Implementation Unit (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

SAHA ÇALIŞMALARI

DEFINITION OF THE GEOGRAPHICAL, PHYSICAL, BIOLOGICAL, GEOLOGICAL, HYDROGRAPHIC, AND SOCIO-ECONOMIC CONTEXT

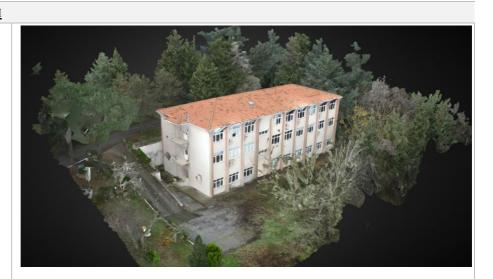


Figure 3-1: View of Boğaziçi University New Geophysics Building

The project involves work on a building located within the Boğaziçi University Kandilli Campus. During the implementation of project activities (such as scaffold installation, painting, exterior cladding, etc.), it is expected that the soil surrounding the buildings will be affected. Necessary precautions will be taken to prevent the contamination of soil with hazardous chemicals during the activities conducted 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 site. All necessary infrastructure facilities such as electricity, water, sewage, natural gas, and internet can be accessed for the work.

The project site is located within the boundaries of Boğaziçi University Kandilli Campus. The majority of the retrofitting and renovation works will be carried out inside the buildings. However, the prevention of adverse effects on nearby settlements from construction activities in the project area is addressed in this Environmental and Social Management Plan (ESMP)

The activity area and its surroundings are shown in Figure 1.4. The major impact area and distances to the buildings due to seismic retrofitting and energy efficiency operations for the buildings involved in the project are provided below.

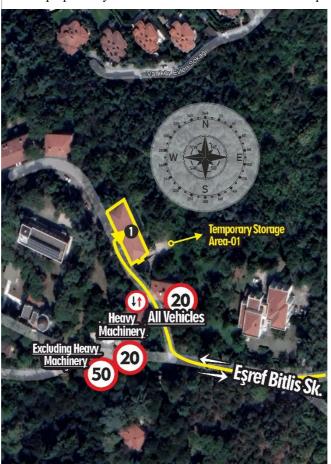
- Old Geophysics Building (42 m)
- Lodgings (13 m)
- Botim Building (30 m)
- Astronomy Laboratory (55 m)
- Museum (75 m)
- Earthquake Monitoring Center (60 m)
- Geodesy Department (20 m)
- Vaniköy Houses (85 m)

are located within the major impact area of the Boğaziçi University New Geophysics Building renovation works.

Potential issues related to waste management, such as noise, dust, vibration, and the spread of excavation waste beyond the construction site, may adversely affect occupants or residents of the buildings within the major impact area. Detailed information on this matter and the measures to be taken are provided in Section 5. Additionally, at least 7 days before each stage of the construction process, information will be provided to the management of Boğaziçi University New Geophysics Building (as the building to be worked on will be vacated before retrofitting work begins, there will be no occupants in the building during the work). The construction schedule will be posted in a visible location at the construction site and will be continuously updated throughout the project duration. All these nearby buildings are considered sensitive receptors, and measures to prevent these sensitive receptors from being affected by potential environmental and social impacts/risks are presented in Section 5 as mentioned above. Mediva Hospital, located 2.5 km from the project site, is considered in the preparation of occupational health and safety emergency action plans, taking into account that the travel time by car is approximately 7 minutes considering traffic conditions.

LOCATIONS AND
DISTANCE WHERE
THE CLOSEST
SENSITIVE
RECEPTORS ARE
LOCATED, SUCH
AS HOSPITALS,
HEALTH UNITS,
PUBLIC
BUILDINGS,
HOMES.

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.



TRAFFIC ACTION PLAN

Figure 3-2: Traffic Action Plan

SEWAGE SYSTEM, ELECTRICITY, WATER NETWORKS, ETC. INFRASTRUCTUR E 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.

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

The first stakeholder participation meeting regarding the feasibility studies carried out before the field evaluation (determination of the need for structural retrofitting, energy audit studies) was held in person on 09.03.2023 and general information was given about the technical details, purpose/targets and stages of the project.. (Annex VI)

On 29.04.2024, a stakeholder information meeting was held to provide detailed information about the reinforcement and energy efficiency renovations to be carried out at the New Geophysics Building on the Boğaziçi University Kandilli Campus, and to explain the anticipated environmental and social impacts. The meeting was attended by representatives from the beneficiary institution management and technical units, building users, experts from the consulting firm, and experts from the Public Procurement Agency. In total, 13 people (3 female, 10 male) participated in person, while an Energy Systems Engineer, 3 Occupational Health and Safety Specialists, 2 Environmental Specialists, a Social Specialist, and a Sociologist participated online (4 female, 4 male).

Before the information meeting, this ESMP was disclosed on the website of the Ministry of Environment, Urbanization, and Climate Change for 27 days, allowing stakeholders to access it. The ESMF will remain accessible to all stakeholders both on the relevant website and at construction sites throughout the project lifespan. Additionally, printed copies of this ESMF were made available for 27 days in all buildings involved in the project for stakeholders to access.

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

APPLICABLE TO THE PROJECT ACTIVITY (EG. SPP INSTALLATION ETC.)VB.)

NATIONAL

LEGISLATION

AND PERMITS

STAKEHOLDER ENGAGEMENT PROCESS

ISSUES AND CONCERNS RAISED BY BUILDING USERS

Building users at the information meeting regarding the feasibility studies held on 09.03.2023; They were informed about the structural retrofitting and energy efficiency renovation process and asked if they had any concerns, opinions, suggestions and/or questions regarding these possible activities. During and after this period (until the date of preparation of this report), there was no feedback from any stakeholder regarding the project, either written/verbally or through the project Grievance Mechanism.

The concerns of students and other building users regarding these activities were raised during stakeholder participation meetings held for the ESMP and recorded in meeting. Stakeholder views, recommendations, and concerns are documented in Annex VII. This document has been revised based on the additional data obtained from these meetings.

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:

- 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

TRAINING

4 Stakeholder Engagement and Grievance Mechanism (GM)

Stakeholder Engagement is an inclusive process to be carried out throughout the project lifecycle and supports the establishment of strong, constructive and responsive business relationships that are important for the successful management of the project's environmental and social impacts and risks. Stakeholder Engagement Meetings facilitate early, frequent, and transparent communication throughout the project lifespan to manage stakeholder expectations that may influence risks, potential disputes, and project delays. For this reason, a stakeholder information meeting on feasibility studies prior to the field assessment (determination of structural retrofitting needs, energy audit studies) was held on 09.03.2023 with a total of 25 participants (5 women and 20 men) and general information was given about the reasons, purpose/objectives and stages of the project (Annex VI)

The specific ESMP for this sub-project will be disclosed on the SREEPB Project's website (https://kamuguclendirme.csb.gov.tr/) throughout the project lifespan to ensure that all stakeholders are informed about how the project will be implemented in the field and to address any objections or suggestions. Additionally, it was disclosed in the New Geophysics Building of Boğaziçi University Kandilli Campus on 03.04.2024. Upon completion of the disclosure process, a Stakeholder Engagement Meeting was held again on April 29, 2024, with the participation of the contractor, beneficiary institution management and technical units, consultant firm employees, and relevant experts from the Project Implementation Unit, totaling 21 participants, including 7 female and 14 male. Details of the Stakeholder Engagement Meeting are provided in Annex VII.

Furthermore, the consultant has prepared promotional materials (brochures, posters, etc.) for informational purposes and ensured their delivery 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 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 Stakeholder Engagement Framework Project (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;

<u>a)</u> <u>Contractor Level:</u> Each contractor appointed to carry out construction works will be responsible for receiving, recording, and, if possible, resolving grievances /concerns/opinions/suggestions expressed by any stakeholder (building management, building users, visitors, local communities or beneficiaries, project staff, etc.) in accordance with the Grievance Mechanism Procedure. The contractor will ensure that all personnel

involved in the project are aware that they can use the Grievance Mechanism (GM) and that grievances from staff will not be an obstacle to renewing their employment contract in the future.

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

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

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

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

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 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

SREEPB | BOGAZICI UNIVERSITY SARITEPE CAMPUS (KİLYOS) PROJECT PHASE 2

ENVITONMENTAL & SOCIAL MANAGEMENT PLAN

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

https://giris.turkiye.gov.tr

Help Line : Alo 150

Mailing Adress: T.C. Cumhurbaşkanlığı Külliiyesi 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 |

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 paydaskatilim-cercevesi-mayis-final 20210521122305.pdf).

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

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

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

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 intermediates.	 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. 	Project Implementation Unit (PIU) Consultant
	, in the second	•	

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 project-specific Waste Management Plan and Occupational Health and Safety Management Plan. Occupational Health and Safety Plan for Boğaziçi University Kandilli Campus New Geophysics Building was prepared by the Consultant. Work will be carried out in the field in accordance with the measures determined in the OHS Plan. The Contractor company will prepare its own OHS plan for the work it will carry out, taking into account the Occupational Health and Safety (OHS) Plan prepared by the Consultant. 	Consultant PIU Contractor
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•	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 tasks, and weekly and monthly site safety meetings will be conducted.	Consultant Contractor
•	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 campus management with the written permission and approval of the student dormitory management.
- Changing areas for workers (lockable) will be provided within the buildings with the written permission and approval of the Bogazici University Kandilli Campus New Geophysics Building's 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 the Bogazici University Kandilli Campus management. In case the existing infrastructure cannot be used, WC containers with all necessary hygiene materials will be provided by the contractor. However,
 - Employees will be able to use the toilets allowed/allocated for them in the building. The contractor will inform their employees about which toilets are allowed/allocated based on the number of employees. Monitoring and control regarding this restriction will be the responsibility of the contractor.
 - The contractor will educate their employees on the proper use of these toilets in compliance with hygiene rules, and if any misuse is detected, the cleaning responsibility will be on the contractor.
 - The contractor will provide all necessary materials for hygiene that employees may need.
- The contractor will provide work uniforms that display the project name to easily distinguish the employees.

- Employees are strictly prohibited from engaging in discussions with building technical units and campus users for any reason. In case of any problems related to individuals or activities, employees will immediately report three situations to their supervisor (The responsible supervisor's contact information will be provided to all employees by the contractor). The contractor will document and report such situations to the consultant. Any decision/action related to this process will be carried out in accordance with the knowledge and approval of the building management.
- If necessary, approval from the building management will be obtained for night work. All activities will be conducted in accordance with both the Occupational Health and Safety Law (Official Gazette dated June 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 Appendix-8 of the Environmental and Social Management Framework document. The work will be carried out in accordance with the requirements of Annex 8 and the Regulation on Health and Safety Measures in Work with Asbestos and other relevant legislation. Additional cleaning will be added to the building's cleaning schedule to eliminate the excess dust and dirt generated by the demolition work. 	Contractor

	t	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.	
		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.	
	i (!	In the event of a significant incident, the contractor will immediately inform the MoEUCC. The MoEUCC will report any significant incident (such as accidents, leaks, fatalities, etc.) to the World Bank within 48 hours and submit an incident investigation report, along with a corrective action plan, to the World Bank within 30 working days	
	•	The contractor will be responsible for the safety of all personnel and individuals within the construction site from the moment construction work commences.	
	•	In the event of any damage occurring during construction work, the Contractor will compensate for all damages incurred by the Beneficiary Institution, Employer, and/or third parties.	
c) Safe		During the works, the safety regulations of the Ministry of Labor and Social Security of the Republic of Türkiye and the rules of the Ministry of Health will be taken into consideration. The relevant regulations will be used as a general reference during the construction.	Contractor
	•	The Contractor will have qualified personnel specifically responsible for safety and protection against accidents on the site. This person will be responsible for the Contractor's entire workforce and labor, as well as the Project Manager, the employer's personnel on the site, equipment, offices, and other facilities. This individual will possess the necessary qualifications for the job, have the authority to give instructions, and be capable of taking all necessary measures to	

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

indirect pollution of water and soil and can affect air quality).	 The Waste Management Plan will be prepared by the consultant as specified in Annex 9 of the Environmental and Social Management Framework⁷. 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. Daily visual site inspections will be conducted by the consultant to monitor the implementation of mitigation measures. 	Consultant
	 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, with permission obtained from the Bogazini University Kandilli Campus management, and these areas will be reported to the consultant. 	Contractor
	 If a protocol is signed between the contractor and the beneficiary institution, the existing waste management system can be used. However, through the protocol, the contractor will be responsible for covering the costs associated with its own waste. The contractor will, if possible, reuse and recycle appropriate and feasible materials (except asbestos). 	Contractor
	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.	

⁷ https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894_csyc_final100521--mayis_20210510070430.pdf

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

Solar Panels

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

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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 leadbased 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-CBS) 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 Üsküdar 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_final100521--mayis_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 campus.
- Removed asbestos will not be reused and will be disposed of in accordance with national regulations and sent to licensed facilities. Necessary documents for transportation and disposal of the material will be kept at the construction site and will be presented to the MoEUCC and the World Bank if requested.
- Paints containing toxic components, solvents, or lead-based paints will not be used.

		 Site-Specific Pollution Prevention Plans to be prepared by the Contractor will be examined by the Consultant and approved by PIU. 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. 	PIU Consultant Contractor
		• Air quality related to dust generation is addressed in the "g. Air Quality/Emission" section of this document.	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	e) Pollution Prevention	Hazardous substances will be secured in the designated storage area to prevent spillage and tipping.	
	Demolition and construction activities	• Containers for partially used chemical materials will have lids and will be tightly closed when not in use.	
	can lead to pollution on construction sites	Disposal of residual (leftover) concrete from concrete mixers will not be allowed in the construction site, its surroundings, or access roads to the construction sites. Concrete mixer drivers will be trained on this matter.	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.	

Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	The presence of workers on the construction site, renovation/construction activities, and the movement of transportation vehicles will increase noise and vibration levels.	 Regular site inspections will be conducted by PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations and World Bank 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 closed, and the equipment will be placed as far away as possible from student areas and other buildings on the campus not included in the project but located on the campus. The use of plastic wedges is mandatory for all such equipment to prevent excessive noise due to vibration. This should be considered in the selection of equipment. Impact noise resulting from construction activities will not exceed 100 dBC in the LC Max noise indicator as specified in the Environmental Noise Control Regulation. For occupational health and safety, the World Health Organization (WHO) has set exposure levels to noise at 70 dB within a 24-hour period and 85 dB for a 1-hour period to prevent hearing impairment. Additionally, the World Bank Environmental, Health, and Safety Guidelines Table 1.7.1 stipulates that noise levels should not exceed 55 dB between 07:00-22:00 and 45 dB between 22:00-07:00 for residences/educational institutions and public institutions (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 demolition process and the necessary precautions will be determined as a result of the measurements. If measurements exceed the	Contractor

	 As a result of the measurements, if necessary, noise curtains will be placed to prevent nearby settlements from being affected by noise. Site assessments will be conducted according to the Environmental Noise Guidelines for the WHO European Region. If there is an increase in the noise level during the construction phase, measures will be taken to ensure that machines are not operated simultaneously. The work schedule of works that create high levels of noise will be planned in coordination with people in nearby buildings. 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. 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
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency	h) Water Quality Uncontrolled disposal of wastewater/waste	• Efforts will be made to minimize the storage or disposal of waste generated on the construction site.	Consultant Contractor

Improvement in Public Buildings	generated at the construction site can	• The campus is 750 meters away from the sea. No waste will be thrown into the sea during the activity.	
	affect the coastline.	 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.	
	i) Soil Quality The mixing of hazardous substances and waste	• 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.	
	into the soil	• 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.	
		• 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.	
Renovation and Retrofitting Works for		• Concrete will be sourced from locally licensed ready-mix concrete facilities.	Contractor
Seismic Resilience and Energy Efficiency Improvement in Public Buildings	j) Required Resources	 Permission will be sought from beneficiaries to use electricity for construction activities. In case permission cannot be obtained, electricity will be provided through generators procured by the Contractor. Records of electricity, fuel, and water consumption for construction activities, including generators, will be kept on the construction sites. 	
		• Regular on-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, regulations, and the requirements of the World Bank standards.						
			• 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.						
		• The Contractor will develop a Traffic Action Plan, taking into account the needs of people with disabilities, as prepared by the Consultant.						
Seismic Resilience and Energy Efficiency	k) Community He	• 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.	Consultant					
	and Safety/Traffic and Pedestrian Safety	and Pedestrian	and Pedestrian	and Pedestrian	and Pedestrian	and Pedestrian	• 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.	Contractor
		• 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. 						
			• Trained and visible personnel will actively manage traffic on the construction site to					
		Construction sites will be surrounded by health and safety signs to mayort notation assistants.	Consultant					
		prevent potential accidents.	Contractor					

 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. 	
• The surroundings and surroundings of the project site will be arranged with traffic signs and warning signs. The Traffic Action Plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the security-related measures to be taken will be specified in more detail in the Community Safety and Traffic Management Plan that the Contractor will prepare before starting work.	
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.	Consultant Contractor
• 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 	
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	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	quality). b) OHS risks Maintenance and repair activities related to the proper functioning of the building can pose	 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.). 	Relevant beneficiary institution

	occupational health and safety (OHS) risks for workers.	Keeping records related to the Main Design Project and relevant project documents for easy maintenance and renovation of any part of the building.	
Throughout the project lifecycle	Stakeholder Feedback (Suggestion, Grievance, Opinion)	 collected at the site level by the responsible employee of the Construction Contractor through the forms provided in Annex III and Annex IV. These grievances will be recorded and submitted to the administration. Grievances will be closed using the Grievance Closure Form provided in Annex V. 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. 	PIU Consultant Contractor

• 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
Renovation and R	etrofitting Works	Site Preparation Acti	vities		
Community Health and Safety Management and Implemented Protective Measures	Around the project site	Visual Inspections Site Inspection Availability of Active Community Safety and Traffic Management Plan	At the beginning of the renovation/reinforce ment works (first day) Every working day throughout the project activities	To minimize health and safety risks and mechanical injuries to local communities	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
Occupational Health and Safety (OHS) protection measures for construction site workers	Project site and buildings near the project site	Visual Inspections Site Inspection Availability 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/retrofittin g work and continuously every working day	Preventing Post Activation Potential (PAP) injury due to inhalation of asbestos fibers or other construction dust.	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
The start and completion time of Renewal/Strength ening works, especially the removal time of existing parts containing asbestos	At the project site	Site Inspection Review of document records Visual Inspections	Every day (In case asbestos is detected)	To avoid environmental, health, and safety risks Compliance with the Regulation on Health and Safety Measures in Asbestos Work	 Contractor Consultant Asbestos Removal 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
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	Bogazici University Kandilli 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	Rectorate of Boğaziçi University Kandilli Campus
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	Rectorate of Boğaziçi University Kandilli Campus

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. 	
MÜŞAVİR	 Conducting a preliminary site assessment before the project starts, If at least one Environmental, one Social and one OHS expert is employ full-time Preparation of the project-specific ESMP and OHS Plan, Monitoring, evaluating and submitting to the Administration the activit defined as the responsibility of the contractor in the ESMP and OHS Plan. Ensuring the operation of the Grievance Mechanism established by Ministry, Providing feedback to MoEUCC by preparing reports about the project a ESMP processes, Examining sub-management plans such as Waste Management Plan, Of 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, Wa 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, one Social and one OHS specialist, 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 implement it or preparation of the Contractor ESMP by the contractor and relevant sub-management plans of the ESMP (e.g. Waste Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Preparing the Random Finding Procedure if deemed necessary. Preparing the
	 Preparing the Labour Management Plan specific to the project considering the SREEPB Labor Management Plan (LMP)⁸.

 $^{8}\ \underline{https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894_isgucuyonetimprosedurlerinihai_tr_20210527081102.pdf}$

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. 	

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

BOĞAZİÇİ UNIVERSITY KANDİLLİ CAMPUS NEW GEOPHYSICS BUILDING FACADE PHOTOS



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	Assessment and Management of Environmental and Social Risks and Impacts	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.
		Environmental and social assessments will be conducted based on current information/data to define and describe the project and all related aspects and identify the nature of risks, impacts, and characteristics of mitigation measures.
		The assessment will prioritize disadvantaged and/or vulnerable social groups, evaluate potential environmental and social risks and impacts of the project, examine project alternatives, and identify ways to improve project design and implementation to mitigate adverse environmental and social effects. The environmental and social assessment will also explore opportunities to enhance the positive impacts of the project.
		According to ESS1, stakeholder participation is an integral part of the assessment, following ESS10. Under ESS1, the Borrower will systematically identify, evaluate, and manage environmental and social risks and impacts throughout the project's lifecycle.

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

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

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.

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 / ÖNERÎ 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	SEISMIC RESILIENCE AND ENERGY EFFICIENCY					
MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE	IN PUBLIC BUILDINGS PROJECT					
() TE		(SREE	PB PROJECT)			
		GRIEVANCE	/ SUGGESTION FORM	í		
		BOGAZ	ZICI UNIVERSITY			
ID Number						
Name						
Surname						
Province	İstanbul					
Choose the building:	☐ Indoor Swimming Pool	New Geophysics Build	ding Indoor Sports Ha	Superdom (Car park)		
Choose the building:	1st Student Dormitory	SFL Block A	SFL Block B	Social Facility & Dormitory		
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 [] NO
Control	
	Term and Responsible Institution
RATINGS	
signed by the complainant after re	eceiving the compensation
	[]YES [] Control RATINGS signed by the complainant after re











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

Project

WB/CS-DESSUP-01

Code Date

9.03.2023

Building Name

BOĞAZİÇİ UNIVERSITY NORTH CAMPUS

Start | End Time

14:00 | 15:00

ANNEXVI-Table 1 Meeting Agenda

START TIME	END TIME	ACTIVITY
14:00	14:10	Meeting kick-off speech
14:10	14:15	Within the framework of the Law on the Protection of Personal Data, general information was provided regarding the meeting recording and the processing of personal data. There are no participants who oppose the meeting recording.
		• As of 14:15, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.







KADEV
Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği Projesi

14:15	14:20	Information was given about the SREEPB project and its objectives.
		Image 1 PRESENTATION FILE SHARED SECTIONS_01
		EXAMP BINALARINDA REPREM PROJESI Financian Children PROJESI Financian Children PROJESI Financian Children PROJESI Financian Children PROJESI Financian Children PROJESI Financian Children PROJESI Financian Children Project P
		PROJE HEDEFLERI
		Bu proje; kamu biradanda, afet direnciri maksimum seviyeye çıkama ve enerji tasanufunu iyfes[immeye adakimmeyi. Bu qerçevede biradan; • Yapsad ladandı gülendirilmesi, • Enerji porformaralanın artırlmas, • Yarində yonlanların sisteminin təkiradi yapsa ile birlide (Bina enerji talip ve kontral sistemi, Enerji yanların sisteminin təkiradi yapsa ile birlide (Bina enerji talip ve kontral sistemi, bina otomayan sistemi vib Jurulması ve erlekiliğinin sağlarması, • Proje kapsammada, paydaşları seviyerinde fantandık sağlarması, • Proje kapsammada, paydaşları seviyerinde fantandık sağlarması,
		hedeflermiştr.
14:20	14:24	 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







		CENEL ASAMALAR Oncellide birnelarum mewcut durumlan, yerinde yapılan teknik incelerneler netilcesinde belirleracektir. (Egosal fübblite, erreig veranliğit terkiden) Birn yapısıd olarak kantıcıla dellecek, standartıları uygun bipinde numureler (sonda; kantı, çelik rummen kib) almanının ket sonuçları ve yerinde yapılan gademier raparlarıncocktir. Birn erreigi parformarısır; direk ve dolaylı efisleyen setem, yapı ve citazdar gadenecek, teste vab tutulacık, elde cellen verler va bu verler şiğind yapılan hesoplanındar yapırdırıncocktir. Firs erreigi fulletim verleri; eneşti tultetimin etikleyen değillenler dikkata olmarak belirlerinen referors değelerler üzerinden kiyoslancak, gerell eneşti performarıs seriyeleri turumlarıncıcktir.
		GENEL AŞAMALAR Projo â Rube doktimendoni la birlikte; - Ceneral Surgul Visatem Planian (Projenia preveel ve soyol etiferi belirhereck, ridder ve riddenin barrocuf-jan havate gelirhed seylenter transmissancektur) - Iş Sağlığı ök Gökmelli Planian (Internationacoktur) - Playdag Kalim Planian (Projenia preveel ve soyol etiferi belirhereck poydeglar ve size konsus poydojaran proje ve proje sizerferi halakında ve ve kolerekter poydeglar ve size konsus poydojaran proje ve proje sizerferi halakında ve kediye etilerekter poydeglar ve size konsus poydojaran proje ve proje sizerferi halakında ve kediye etilerekter peri beldirinlerin (goru alçılayı ve bi inast teplanacoği, mesleneseği ve eveqalanacoği turif editecektir) hazınları ocalettır.
14:24	14:31	 It was explained that the tests and studies to be carried out for the soil survey to be carried out in order to determine the ground condition and these studies will be carried out according to the characteristics of each building. It was stated what stakeholders and employees should do for occupational health and safety. It has been explained that the professional competence of the employees will be questioned. Possible environmental effects related to soil survey, precautions to be taken and considered in this regard were stated. The possible social effects of the ground survey, the precautions to be taken and the things to be considered about it were explained. Image 3 PRESENTATION FILE SHARED SECTIONS_03







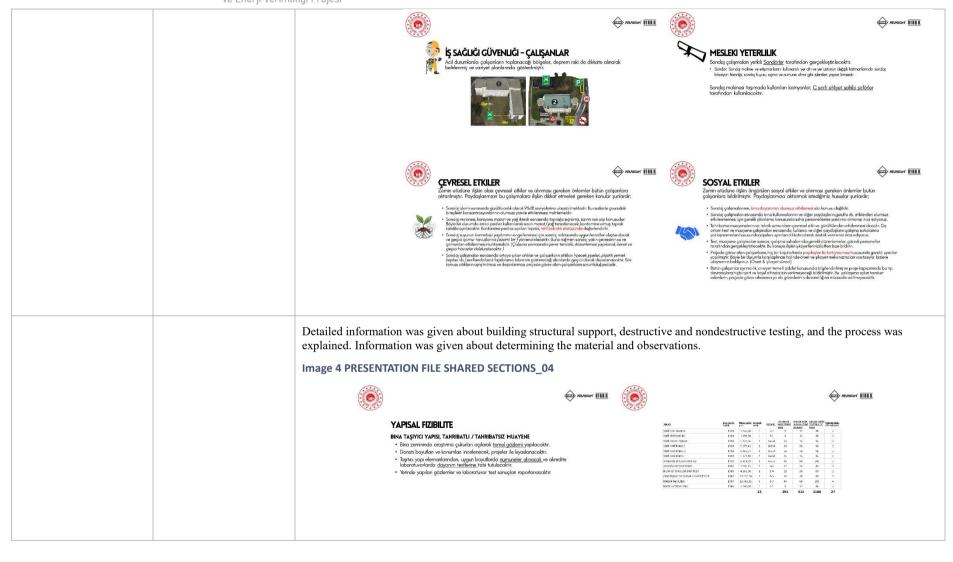


















Kamu Binalarında Deprem Dayanımı

		imliliği Projesi
		YAPISAL FIZIBILITE BINA TAŞIYIÇI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE Bina zemini/ femeli korincikü içini; temeli kolinliğinin bir miktor cilima inlecek detirilike yüdüşi (Özim' yüzgiy dariyl araşılma çüktur uçlir. Açılan çukur görağı clarak korinol edileke kreen liftyi, yapıs, bişizemle kortical edile ve propieler le kroplasırılı in yapısını görüleri mahyyerte resiminer çeklir. Araşılmas sorrasında çukur uygun bişirindi koçorilir. **Dorar İngeli clarksin in bilan layger elemenderile in belirminey çeklir. Araşılmas sorrasında ülenderile belirminey çeklir. Paraşılı elemenderile belirminey çeklir. Paraşılı elemenderile belirminey çeklir. Paraşılı elemenderile belirminey çeklir. **Dorar İngeli clarksin in bilan layger elemenderile in belirminey çeklir. ***Dorar ve damin zaravarad dirazak bilimini yaranlırı ili ve celirerile deklarlar ere mannar dirazak bilimini yaranlırı ili ve ve damin zaravarad dirazak bilimini yaranlırı. ***Namuse cilinderile deklarlar ere mannar dirazak ülimlerile ili ve ve ve ve ve ve ve ve ve ve ve ve ve
14:31	14 : 35	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 TASYIVI YAPIS TARBIATI / TARBIATIZ /
14:35	14:38	 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 PRESENT	TATION FILE SHARED SECT	ONS_06	
				ATLASCON' HILL	YAPISAL FIZIBILITE
			YAPISAL FIZIBILITE		BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE
			BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MU	YENE	Kolon, kiriş nedir?
			Donatı numuneleri; akredite laboratuvarlarda çekme daya kopma kuvvetleri belirlenir ve raporlanır.		 Kolan: Sültun olarak da bilinen, taşıyacı sistemde düşey yapı elemanlarına verilen simdir. Yapıda diş ve iç arlislerden oluşan kuvvatları (moment, kesme kuvvatl vb.) tamallere, oldayısı ile zeriline oltarılırar.
					Kildiş, Yapılarda döşeme ve kullanım alanı yüklerini düşey taşıyıcılara (kolon) oktaran yapı elemandir. Kildiş Kildiş
		(6)	YAPISAL FIZIBILITE	NINGON' HILL	YAPISAL FIZIBILITE
			BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MU Numunelerin çıkarılması;	AYENE	BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE
			Taşıyıcı beton kontrolü için kolonlardan 10cm çapında 10cm dernliğinde,		Beton numuneleri; akredite laboratuvarlarda basma dayanım təstlerinə tabi tutulur, dayanıklılık seviyesi belirlenir ve raporlanır.
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14:38	14:40				sed to force, the parts damaged by column stripping and the gth filling mortars and repaired.
		Image 7 PRESENT	TATION FILE SHARED SECT	ONS_07	







		YAPISAL FIZIBILITE TARRIBATLI TEST SORRASI ONARIM Proje kopasamunda gervelelepistine tahribatik muayenelerin, ternin edilen numurelerin, bibaya yapanal hasar vermedi dik konsus degildir. - Darrin ramanaleri kuwel olinda kolinoyen fiz uglomdon vik an olikidardan degildir. - Koha nyarcas sonau- tahriyo dan karelir verbe batan numureasi dana ballimler yukeki makeveneli dalga hargian kullanikarak dolekurukook, onanlocadir.
14:40	14:45	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.







ve Enerji Verimliliği Projesi

		S SAČLIČI CÜVENLIČI Sire işi işiped gladen, ten ve nu yere çellyerizorna bişir saz anıla garçakcıştıları, şi işiped gladen, ten ve nu yere çellyerizorna bişir saz anıla garçakcıştıları, şi işiped gladen, ten ve nu yere çellyerizorna bişir saz anıla garçakcıştıları, şi işiped gladen, ten ve nu yere çellyerizorna bişir saziları türkleri gardanı bişir bişir bişir direkti gardanı bişir bişi
		CEVRESELETILES See is justime, but he managere galametares laján sine general sidár en alveras gredon riorder, sobile personal sidár en alveras gredon riorder, sobile riorder riorder, sobile personal sidár en alveras gredon riordere
14:45	14:50	 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. Image 9 PRESENTATION FILE SHARED SECTIONS_09
		Wideoid forulation upmain growine is usign with section in growing product is useful to a growing disting education because the growing of the production in the section in







		ENERLY VERMILLÄ DERLY VERMILL
		is sacilification with the control operation for the control operation by the control operation of the control operation
14:50	14:54	Clarifications were made regarding stakeholder engagement, receiving and evaluating suggestions and grievances, and informing the relevant parties about this process (decisions taken regarding suggestions and grievances, additional measures implemented, etc.) It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes. It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181. Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods. It was announced that the grievances about gender-based violence (harassment, abuse, etc.) and gender-based discrimination, which were made within the scope of the project, will also be evaluated within the scope of the grievance resolution mechanism. Image 10 PRESENTATION FILE SHARED SECTIONS_10









		ONERI ŞIKAYET SISTEMI Onet ve ejkopeteninkin, cenir ve alına eykan para olduğu eldişini bi birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan. Vera çeşir daylık eldişini birinde siyan deşiri birinde siyan. Vera çeşir daylık eldişini birinde siyan deşirind			
14:54	15:00	Participants' questions were received and answered. CLOSING speech was made and the meeting was ended. Image 11 PRESENTATION FILE SHARED SECTIONS 11			

Questions and Answers

AnnexVI, Table 2: QUESTION & ANSWER LIST

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









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.

Annex VI Table 3: MEETING PHOTOS

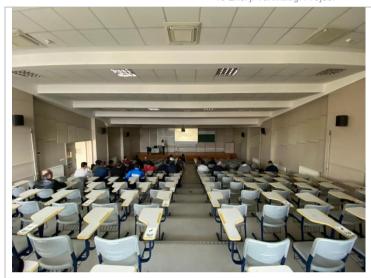






















Participant List and Contact Information

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.

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









ATLASCON' HILL

KAMU BİHALARINDA DEPREM DAYANIMI & ENERJİ VERİMLÜLİĞI PROJESİ

Finansmanı Dürya 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 çıkarma ve enerji tasarrufunu iyileştirmeye odaklarmıştır. Bu çerçevede binaların;

- Yapsal olarak güçlendirilmesi,
 Eneği performarslarının artırılması,
 Yerinde yenilenebilir & sürdürülebilir eneği üretimi,
- Enerji yönetim sisteminin teknik alt yapısı ile birlikte (Bina enerji takip ve kontrol sistemi, bina otomasyon sistemi vb.) kurulması ve etkinliğinin sağlanması,
- Proje kapsamında, paydaşlar seviyesinde farkındalık sağlanması,

hedeflenmistir.











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













2023









ATLASCON' HILL



YAPISAL FIZIBILITE



ZEMIN ETÜDÜ;

Araştırma çukuru (her bir yapı için en az 1 adet), jeofizik serim (her bir yapı için en az 2), 50m derinlikte sondaj (2-15 ad. arası) ile zemin durumu belirlenecek ve raporlanacaktır. Her bir yapı için bu kapsamda gerçekleştirilecek test, sondaj sayıları belirlenmiştir ve bina teknik birimleri ile paylaşılmıştır.





YAPISAL FIZIBILITE

GENEL AŞAMALAR

Proje & ihale dokümanları ile birlikte:

ZEMIN ETÜDÜ:

Bu kapsamda gerçekleştirilecek test & numune sayıları aşağıdadır,



Çevresel Sasyal Yönetim Planları (Projenin çevresel ve sasyal etkileri belirlenecek, riskler ve risklerin bertarafı için hayata geçirikecek eylemler tanımlanacaktır)

İş Sağlığı & Güvenliği Planları (İmalat aşamalarına ilişkin iş sağlığı ve güvenliği riskleri belirlenecek ve bertarafı için alınması gereken önlemler tanımlanacaktır.)

Paydaş Katılım Planları (Projeden direk ve dolaylı etkilenecek paydaşlar ve söz konusu paydaşların proje ve proje süreçleri hakkında ne kadar nasıl bilgilendirilecekleri, geri bildirimlerin (öneri, şikayet vb.) nasıl taplanacoğı, inceleneceği ve cevaplanacoğı tarif edilecektir.)



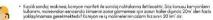
İS SAĞLIĞI GÜVENLIĞI

GENEL ASAMALAR

Zemin etüdüne ilişkin risk analızı gerçekleştirilmiş, <u>iş sağlığı ve güverliği planları</u> hazırlanmış ve çalişanlara aktonimıştır. Paydaşlarımızın bu çalişmalara ilişkin dikkat etmeleri gereken konular şurlardır.

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

Bir örceki azamada balirilen ve yüklenici firmalara tebliğ edilen plantarın tanamının (çevresel, sayarl etilen, poydoş karlım, (SS) displinli şeklida uygularması zanurlar. Müşcerilik süreci sadece irmalatları tişkin kalite gerekin interni değit oyrı zamanda bu plantarın uygularmasına fişkin süreçleri de kapsamalatlarlı.



- Sandaj kulesinin kaldırılması esnosında, kule etki alanı içinde bina elemanlarının, ağaç dallarını vb. olmadığından emin olunmalıdır.
- Sondoj işlemi yapılan alana 20m' den fazla yaklaşılmamas gerekmektedir. Bunun tesisi için çalışma sohas emriyet şeridi ile oynlocaktır.
- Sandaj işlemi esnasında çevredeki teknik kadroların tazdan etkilenmemesi için yarım yüz maskesi kullarımı önerlir.
- Sondaj işlemi esnasında gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bireylerin konsantrasyonlarının olumsuz yönde erkilenmesi muhterneldir.
- Çalışma sonrasında araştırma çukurları ve sondaj delikleri kapatılacaktır. Bu suretle takılma, düşme riskleri bertaraf edilmiş olacaktır.



İŞ SAĞLIĞI GÜVENLIĞI – ÇALIŞANLAR Çalşarıların tamarın aşağıda belirilen ve kerdilerine teslim edilen kişisel konyucu dananımları disiplini şəkildə kullarımakla yükümlüdür. Söz korusu dananımları uygun şəkildə taşımayan/kullanmayanların çalışmalarına izin verilmeyecektir



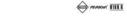
- · Baret TS EN 397+AI
- Kulak Tikaa TS EN 352-2
- Koruyuau Gözlük TS EN ISO 16321-3 · Cenel Amach is Eldiveni - TS EN ISO 21420
- Is Avakkabis TS EN ISO 20347
- Yanm Yüz Maskesi TS EN 140
- Parasit Tipi Emnivet Kemeri TS EN 361/Sadece Sor



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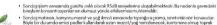






ÇEVRESEL ETKILER

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



- Sondaj golgmalan esnasnada ortaya çıkan ani dar ve çalışarıların atikları (içecek şiyeleri, plastik yemek kapları kö, ismifandırlarık taydalarıcı ilarenin göstereceği alanlarda geçici olara idepolarıcadıktı. Söz konusu ani kların ayrıştırlımasıv depolarınması repiede görev alan çalışarıların sarımluluğundur.



İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR





MESLEKI YETERLILIK

Sondaj çalışmaları yetkili Sondörler tarafından gerçekleştirilecektir. Sandar Sandar meline ve ekipmankannı kullanarak yer altı ve yer üstünün değişik katmanlarında sandajı lokasyon hazıriği, sandajı kuyusu oçma ve numure alma gibi işlemleri yapan kmesdir.

Sandaj makinesi taşımada kullanılan kamyonlar; <u>C sınıfı ehliyet sahibi şəförler</u> tarafından kullanılacaktır.











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SOSYAL ETKILER

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

- Sondaj calismoloraja bina dovrnimiri alivne iz atkilamesi enz konje u dežildir.
- Sondaj gainmaranini, sina adjantini rautriazi etimenios soz. consa uegrani.
 Sondaj galgmalan esnasinda bina kullanicilarinin ve diğer paydağların gürültü vb. etkilerden olumsuz.
 etkilermemeti için gerekli planlama konusunda saha personellerine yardımcı olmanızı rica ediyoruz.
- Tahribatusz mucyenelerin ve tekni k uzmanların çevresel etki ve gürültülerden etkilenmesi olasıdır. Dığ artam test ve muayene çalışmaları esnasında, kullarıcı ve diğer paydaşların çalışma sahalarına yaklaşmanlan hususunda yapılanı yayındıra dikkete alarındı destek vermeni irac ediyonz.
- youtspromates in autumna yopion in yopion alexante autum centes viewertein ros esporaz.

 Neit, muyanes quidennia sercator, quidante alexante alexante disenteneixe, governere personaler tratini andra gespeksetytieseste. Bu lannya ilişin siperyelmenra littine bire olderin.

 Projecie giber en deropsiarelorin, he bir vota almada pradiguite in formationes hausumda geneki uyanlar yapimigri. Böyle bir drumrich saylasilmen bil miden einer ve slieyet mekanizmalan vositasyila birder dagmania belikyim. (Cene & Bylasire strees)
- Butun çalışanlar ayrımcılık, onayer temelli şidder konusunda bilgilendirilmiş ve proje kapsamında bu tip dovumişlara hiçbir şar ve koşul altırıda izin verilmiyerceği bilirilmiştir. Bu yaklaşma aykın hareket edenlerin, repiede görev almasın ya da göverlerinin devemliğira müsocia edilmiyercektir.









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SENTINGAET VEORONNUS FAKÜLTESIEN.	1187	13,000,00	2	2.5	26	40	80	2

















BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Bina zemin/temel kontrolü içir; temel kalınlığırın bir miktar altına inliccek derinlikte yaklışık (0.5m² yüzey döny) araştıma çukuru açıkı. Aplan çukur gössel ölarak kontel celliderik temel hip, yapışı, bilgeninen kontrol adlırı se projelor ile hyaşlanır. Açılan çukur ve gözlemler gösteri mahiyette resimler çeklir. Araştıma sonrasında çukur uygun bilgində kapatir.





YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

BINA TASIYICI YAPISI, TAHRIBATLI / TAHRIBATSIZ MUAYENE

Bina zemininde araştırma çukurları açılarak <u>temel gözlemi</u> yapılacaktır.

· Donatı boyutları ve konumları incelenecek, projeler ile kıyaslanacaktır. Taştıcı yapı elemanlarından, uygun bayutlarda numuneler alınacak ve akredite laboratuvarlarda dayanım testlerine tabi tutulacaktır.

Yerinde yapılan gözlemler ve laboratuvar test sonuçları raporlanacaktır.

Taşıyıcı yapı gözlemleri ve numune tespiti;

- tagynur yayn gazani rein vertan bare regani;

 * Demir tagsti chastari feb ins a lasyner elemantanını içinde yer alan donatıların (demir); konum'an, dizilimleri

 * Betan ve demir numunosi alınacak bülümleri garaflenir.
- Numure etiketleri doldurulurve numure almanak vüzevlerin vanına ilistirilir.





YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Donati ve etriye nedir?

- Donatı: Beton içerisindeki çelik çubuklardır. (Beton basınca kaşı çok iyi çalşan bir malzeme olmasına rağmen, çekme dayanımı çok dişültür. Çekme bölgesindeki gerilmeleri kaşılamak üzere, bu bölgeye çelik çubuklar yerleştirilir.)
- Etriye: Kolon, kiris gibi taşıyıcı sistem elemanlarının; boyuna donatılarını saran, inşaat çeliğinin bükülmesiyle elde edilen bir sargı donatsıdır.

















YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

- Donati kontrollü işin belirlenen yüzeyler üzetindeki; boya, alçı, sıva ve beton katmanlar, kırıcı manfeti ile kaldınlır, sıyrılır, Bu suratle kontrol edilecek demirler ortaya çıkanlır.
- Çıkarılan donatı (ətriye ve boyuna donatı) üzerindeki beton kalıntılar ve pas, uygun boyutta metal fırçalar kullanılarak temizlerir.
- Donatı çapları tespit edilir, dayanım testi için numune filiz başlarından vb. spiral taş marifeti ile demir çubuklar kesilir.







YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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



YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Kolon, kiriş nedir?

- Kolon: Sütun olarak da bilinen, taşıyıcı sistemde düşey yapı elemanlarına verilen isimdir. Yapıda dış 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











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YAPISAL FIZIBILITE

BINA TASIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Numunelerin çıkarılması;

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

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

 Karot makınesi yerinden çıkanlır. Delgi başluğuna uygun böyüklükte murç ve çekiç kullanılarak numune kösesine vurularak, numunenin bağlantı vüzevinden koprası sağlanır. Serbest kalan numune verinden

Bina igi yapısal gözlem, test ve muayene çalşmalarına ilişkin risk analizi gerçekleştirilmiş, iş sağlığı ve güvenliği planları hazırlarımış ve çalışanlara aldrarlmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır;

Kazı, kırın, karot ve onarım harcı hazırlama esnasında görevli olmayan paydaşlar, çalışma noktalarına 5m den fazia yaklaşmamalıdır. Bu surellis, çıkıan toz, yülsek gürüllülere uzun süre maruziyet, firlayan çapalı/ berto parçalarında netkilerine ihirtalı otradan kallakcılatır.

Çalışmalara eğilk edecek bina teknik kadırdanının /çalışmılanın; kazı, karat ve kının işlemlerini yakından takip etmemesi, bu çalışmalar asınasında taz maskesi, koruyucu gözlük ve baret kultarımaları gerekmetketin.

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

Çalışmalara eşilk eden teknik kodrolar; elektrikli cihazların bağlanabilmesi için, kaçak alırın korumalı hatlardan baslanan uygun prizlər soçmalidir.

Çalışma sonrasında araştırma çukurları, sıyırma işlemi yapıla kolonlar ve beton numunesi alınan bilireler temir sellile seldir.



İŞ SAĞLIĞI GÜVENLIĞI









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BINA TASIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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

İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR Calsanların tamamı aşağıda belirtilen ve kendilerine teslim edilen kişisel konyucu donanımları disiplinli şekilde kullarımakla yükümlüdür. Söz konusu donanımları uygun şekilde taşımayan/kullarımayanların çalışmalarına izin verilmeyecektir.



· Baret - TS EN 397+A1 Kulak Tikaci – TS EN 352-2

YAPISAL FIZIBILITE

- Koruyucu Gözlük TS EN ISO 16321-3
- Genel Amach is Eldiveni TS EN ISO 21420
- · Iş Ayakkabıs TS EN ISO 20347
- Yanm Yüz Maskesi TS EN 140



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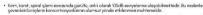
ATLASCOR! HILL





ÇEVRESEL ETKILER

— Tilna içi gözlem, test ve muayene çalışmalarına ilişkin olası çevresel etkiler ve alınması gereken önlemler, bütün çalışmlara altarılmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat otmolori gereken konular şunlardır:





- Kimm we karot esnaanda ostoga gikan atiklar falap, sua ce beton pagalar/trabap, demi tadan, capakkar, parçalar) jorevit telenik urmanlar ve galspallar transfindan temzierreket ve taydalarısı ildare tarafından goldenin böylelerde pyrstnilarak depolanacıktır. Bu çellemdara bağlı eldi mittarda atık çilmas bekermemerdeni.
- Tamir harçlarının kullarımı etrasında çıkan an ilar, üretici tarafından beyan edilen şekilde (MSDS-Manteria Sarlety Data Silvent (Türkçesi Gürenik Bilgi Formu (GBF) olarak adlandırimrütradı;)) sınıflandırılacı kve faydolancı ildare tarafından gösterlen bölgelere ayrıştırlarak depolanocakın. Bu çalışmaları bağlı addı mi tarafı attı çılması belilenmemelredir.
- Projede görevlendirilen tehnik uzman va çalışanların, içecek ve yiyecek tüketimlerine bağlı ortaya çıkacak geri dönüştürülebilir atıklarının tamamı, bina içinde tesisi edilen geri dönüşüm kurularına atılır.



SOSYAL ETKILER

Bina ışı gözlem, test ve muayene çalışmalanna ilişkin öngörülen sosyal etkiler, İSQ planlarında boliriliniştir. Söz konusu otkilor ve alınması gereken önlemler bütün çalışınlarıa bildirilmiştir. Bunun yarında paydaşlanmıza aktarmak istediğimiz hususis şurlardır;

- Bina içinde gerçekleştirilen tahribatlı muayenelerin ve alınan numunelerin; bina dayanımını olumsuz etillemesi söz konusu değildir.
- Test ve numune temini esnasında; bina kullanıcılarının ve diğer paydaşların gürültü vb. etkilerden alumsuz etkilenmemesi için gerekli planlama konusunda, saha personellerine yardımcı almanızı rica ediyonuz.
- Teknik uzmanlarınzın ve çalışarlarınzın çevresel etki ve gürülülerden etkilermesi olasıdır. Çalışmalır erncendo, tullarıcı ve diğer poydaşların çalışma alanlarına yaklaşmamdan hususunda yapıları üyenları diklata olarak desetki vermenir in ca delyönuz.
- Test, muayene galışmaları sonrası; galışma sahalarında gerekli düzenlemeler, görevli personeller tarafından gerçekleştirilecektir. Bu konuya ilişkin şikoyetlerinizi lütfen bize bildirin.
- 9 Projede görev alan çalışanların hiç bir koşul ahında paydaşlar ile tartışmaması hususunda gerekli uyanlar yapılmıştır. Böyle bir durumla kapılaşılması halinde öneri ve şilkayet mekanizmaları vasıtasıyla bizilere ulaşmanızı bekiyanuz, (Önen 8 sikayet süreci)
- Bütün çalışarılar ayrımalık, cinsiyet temelli şiddet konusunda bilgilendirilmiş ve proje kapsamında bu tip davranışlara hiçbir şart ve koşul altırıda izin verilmeyeceği bil birilmiştir. Bu yaklaşma aykın hareket edenlerin projade görve almasına ya da görvelerini advamlığına müsaada edilmeyecide adileni.



YAPISAL FIZIBILITE

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

- Demir numuneler kuwet altında kalmayan filiz uçlarından vb. noktalardan
- alınmaktadır. Kolon syırması sonucu tahrip olan kısımlar ve beton numunesi alınan bölümler vüksek mukavemetli dolau harcları kullanılarak doldurulacak, onanlacaktır.











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- Sahada gerçekleştirilen yapısal dayanım testlerinin tarnamı inşaat Mühendisleri tarafından ya da gözetirininde (teknikor, teknisyon) gerçekleştirilmektedir.
- Rölöve çalışmaları Mirnar, Makine Mühendisi ve Elektrik Mühendisleri tarafından gerçekleştirilecektir.















ve Enerii Verimliliği Projesi

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ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

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

- Bina cephesi, cephe bileşenleri (kapı, pencere) ve gatı.
- Sirkülasyon motorları ve pompaları
- Merkezi cebri havalandırma sistemler
- Merkezi idimlendirme sistemleri (soğutma ve Istma)

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

- Sıcak kullanım suyu üretimi.
- Yerinde sürdürülebilir elektrik üretimi
- Bing otomasvonu.

ENERJI VERIMLILIĞI

Enerji yönetim ve izleme sistemleri.





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 Mevcut copho ve çatı yalıtım katınanları ve sılı geçirgenlik katısıyıları belirlerir, termal komerdarı ile sı koçcikları heşpit edilir.
- Her bir elektrik motoru kontrol edilir. Verim sınıfı, 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 belirlerir.
- Her bir merkezi soğutma ünitesi, performans testlerine tabi tutulur. Anlık enerji tüketimleri, kapalı çevrim sıcaklık, basınç değerleri ve akışkan debisi belirlenir.
- Her bir merkezi kazan üritesi performans testlerine tabi tutulur. Baca gazı analızi ilə yarıma verimi bolirlerir. Kazan termal kayıpları, arılık tüketim verileri, kapali çevrim aluşkan sıcaklık ve debi verileri tespit edilir.













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



- Olgümlerin tamamına bira tekrik pensanel/pensanelieri eşlik etmel; cihazların devreye alırması, devreden çıkarlımas, cıhaz konuma mahlazalarının açılması viz. uygularındısın bizzat yetkili bira teknik pensanelleri gerçekleştirmeldir.
- Bina teknik personelleri; havalandırma üniteleri vb. cihazlara güvenli erişim yolları (çatı üzeri vb.) beli ilemeli ve görevli teknik personelleri yönlendirmelidir.
- Bina teknik personelleri; anzalı ve riskli cihazlar konusunda görevli teknik personelleri uyarmalıdır.

ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

- Bina elektrik sistemi, kesintisiz güç kaynakları vb. yapılarla birlikte incelenir. Asgari 24 saat enerji kalife analai gerçekleştirilir. Bu suretle bina elektrik sistemi, harmonik bazulma seviyelerini içerecek mahiyette gözlenir.
- Bina topraklama süreklilği sorgulanır. Kaçak alam koruma sistemleri ve etkinliği doğarlandırılır. Şalt okipmanları tormal açıdan sorgulanır, bu suretle problemli şalt ekipmanları ve linye hatları belirlenmeye çalşılır.
- Bina enerji izleme sistem kurulum imkanlan gözlenir. (Kolon ve linye hatlan dağılımları, pano boyutlan ve iç boşluklar, pano konumlan, izleme sistem elemanlarının kablolama imkanlan vb.)
- Bina lokasyarlannın hava koşullar, çevre ve yer altı potansiyel sı kaynakları sorgulanır. Nevcut tesisat bileşenleri dikkate alınarak isi pompasi vb. imkonlar değerlendirilir.





 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.

İç ortam aydınlatma seviyeleri ölçülür ve standart şartları ile kıyaslarır. Aydınlatma elemanlarının tipleri, güç koynakları vb. veriler dıkkate alınarak aydınlatmanın toplam tüketim içindeki payı belirlenmeye çalişilir.

İç ortam hava kalitesi verileri; örneklem metodu ile anlık olarak ölçülür. Karbondioksit oranı, scaklık ve nem değerleri listelenir. Konfor şartlarına ilişkin standartlar ile kıyaslanır.

Bina çatı yapısı incelenir. Güneş enerji üretim potansiyeli (güneş paneli kurulumu) belirlenir.

Bina iç ortam sıcaklık değişimleri data logger' lar ile kayıt altına alınır.









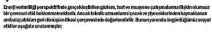


2023



CEVRESEL SOSYAL ETKILER

ATLASCORT HITT



- Bino iginde gergelleştiriler test, muzyene çalışmalarının, binoyo, bina elektrik ve mekonik sistemlerine, elektrikli cihazlara olumsuz bir affedistiz konusu doğlidir.
- Çalışmalar esnasında, kullanıcı ve diğer paydoşların çalışma alanlarına yaklaşmamaları hususunda yapıları uyanları dikate olorok, destak vermerizi risa adıyonuz. Test, muovene galismolan sorrasi, go isma sahalarında herhangi birkirli ik alusması beklenmemekle birikre, aluşabilecek alası kirilik tarafınadan borduraf adılasaktır.

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ATLASCOT' HILL ÖNERI ŞIKAYET SISTEMI



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





ÖNERI ŞIKAYET SISTEMI



Çerer, Şəhrnik e İlâm Değiştiğiği Bokarı iğrini (ÇŞDB) hem teletan hem de web sites araa iğiyda arış İsabian İr AbBİ yardırı hartı vardır. Bu yardırı hatı oyu zaranada çalqırıları, çazırı aratları da daha gereş zimereri için barılını ilkazırı değir be işinderin elenması işiri görür. ÇİBİ tarafındırı soğlarını ilm çerin ve şəirli kizimdeli il iğili son., talba ve şikayetler proleyayındı örarisk yörerili ADİ Bi Çiğir mekri tarafındırı ilm çerin ve şəirli kizimdeli il iğili son. talba ve şikayetler proleyayındı örarisk yörerili ADİ Bi Çiğir mekri tarafındırı ilm çerin ve şəirli kizimdeli il iğili son. talba ve şikayetler proleyandı örüne ilm elim terderi.

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

Çağın Merkezi : Ale 181
Telefon : 0.0312 586 4858
E-Mail : ytgınkadev@csb.gov.tr
Şikayet Formu : https://kadevonerLosb.gov.tr/onerLjsp









ATLASCON' BIBLE İlgi ve anlayışınız için teşekkür ederiz!













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

WB/CS-DESSUP-01 Building Name BOĞAZİÇİ UNIVERSITY

KANDİLLİ CAMPUS NEW

GEOPHYSICS BUILDING

Date 29.04.2024 Start | End Time 10:00 | 11:10

Project

Code

START TIME	END TIME	ACTIVITY
10:00	10:03	Meeting kick-off speech
10:03	10:05	Within the framework of the Law on the Protection of Personal Data, general information was provided regarding the meeting recording and the processing of personal data. There are no participants who oppose the meeting recording. • As of 10:05, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.
10:05	10:08	Information was given about the SREEPB project and its objectives. Image 7 PRESENTATION FILE SHARED SECTIONS 01







		Kamu Binalannda Deprem Dayanmu ve sismik risk altında ve eneji verimliği düş hizmek kurumları, hastaneler ve hüküm Bu sunum; Boğaziçi Üniversitesi Kandili Ka (1.100 m²) yapısal güçlendirme ve enerji ve hakinda bilg	Ukyüksekdipfetim binalan, yurtlar, sosyal tek tonalda pilan kunun binalannda sismik imilliğine odaklanmıştır. implisif mde yer alan <u>YENI. JEOFIZİK BİNASI</u> verimliği odak kingletirme qalşımalan implisif mediyerimle qalak ingelirenme qalşımalan verimliği odak kingletirme qalşımalan
10:08	10:15	The renovations to be carried out for the structural ret explained in detail. (Structural system reinforcement, fine	rofitting identified as a result of the feasibility study have been e works, etc.)







ve Enerji Verimliliği Projesi

Paydaş Katılımı Toplantı Raporu

2023

Image 2 PRESENTATION FILE SHARED SECTIONS 02 ATLASCOT! HILL ATLASCORT HILL Yapım Aşaması Yapısal Güçlendirme - Mescuttayyusstemgişlerdirmis ektasyus strom inulation, Enerji Verimliliği Confirmation of the C ATLASCOT HILL ATLASCOT! #1111 Yapısal Güçlendirme Yapısal Güçlendirme Taşıtıcı Sistem Güçlendirme Taşıtıcı Sistem Güçlendirme Güçlendirme pertődéri ve kolon mantolan yaplacak akstardáki duvarlar işaretlenerek en üst kattan başlanacak şekilde, balyez ve kınız manfetiyle yıklacaktır. Duvar yıkmı öncesi zarar görme sirki barındaran, kapı, pencere, virtiflye, tergih, elektirik ve mekanik tesisat ekipmanları sökülecektir ve Faydalancı kurum tarafından gösterilen alanlardış eçcişi muhafaz edilecektir. Söküm işleminden sonra güçlendirme elemanlarının temellere bağlarması amarıyla perde ve kolon mantosu çorcisinin oçlması için subasman betomuran isrilması ve temel içi dolgasınını kazılması gerelmektedir. Bu ramı ve kazı işlemleri el ile (kına ve balyaz yardımıyla) ve/veya yapı içerisine girebilen küçük makinelerle (bobcatva) gerçekleştirlicedir. ATLASCON' HILL Yapısal Güçlendirme Taşıyıcı Sistem Güçlendirme Kern ve kan işlemir i tananlandıktan sonra mevut kolon, kiriş ve temelere ankraj cubukları çakir. Ankraj delikleri debay projekrindeki öçikter uygun olarak deli matlaşları'n mevut elemanlara delik açılması, deliğin hava kompresőrü le temellerimesi, epoksi yapşıtınının delik içerisine sıkliması ve önceden hazırlaran ankraj demirinin delik gerisine sokulması yelelinde yapplır.









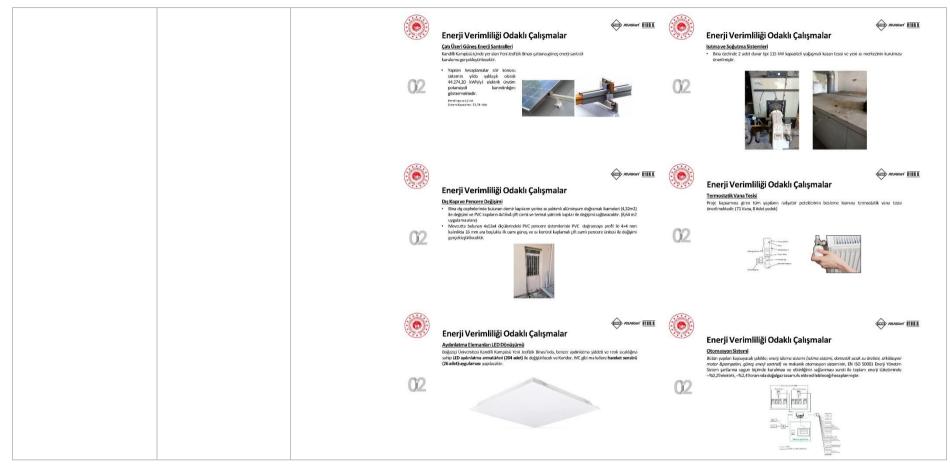
		Yapsal Güçlendirme Taytto Sistem Güçlendirme Ankızı imalatılını ile bender güçlerindirme donatorun ölçenmesi şirine başlanacktır. Donatı rumune kontrolleri sonari Pywood valgalır kapatalırık bir isti kut döyemezinden aylanı delikteri veya kışı ağa da deririle kalşınanı mal refine hariler çerindiren kalşınanı ara istelak betir öldülür. Oli Vapsal Güçlendirme Yapısal Güçlendirme Incelşier Kala inşazını tarnanlarınanın ardındın onarını işierine geçlir. Güçlerdirme gerdelerinin iç ve diş yezerlerinin nası, baya, yalarını vak. vayılarınıları, bozulun zemiller texiyle betirni ve kaplıma maltemesi dizerlerineleri, eleicit kesson ve melanlık tesson ve m
10:15	10:21	 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 8 PRESENTATION FILE SHARED SECTIONS_03

















		Enerji Verimliliği Odaklı Çalışmalar Cephe Yaltırın Dı çeçibe kontrolleri neticesinde, yapılan hesaplamaların, yaltımlı bölünrierde dahi 15 825 sagari şartının sarplarmadiğin götermişir. Bir verçevede: - Dış kisaya Akif Çeçibe buratırında (Bilmiz) 10cm kainlığında US-0.035Wm2/K şartını sağlayan tış yuru cephe kaplamısı tessi gerçekleşinilecektir - Vapilan hesaplamaları neticesinde Boğazi; Ünhersitiesi Kandili Kampisü Veril kerikir. Birnası özelinde belirleren önlerin senaryolarının hayata gerçirinesi ile toplarında tasarını'lede edilebilecek, yaktaşık 11,5-48 torviyl sera gazı emisyonu engelleneblecektir. Söc konusur encovoyalırı ve yenilenen sisteminire (Ni So Sooto) Enerji Yöncetin Sistem gartlarını sügan bişimde işledileresi ile yılık 77,325,01 kWh elektrik, 373.63,53,27 Whh doğlağızı zarantırın maddiboyutu yaklaşık 753.377.278/yi seviyesindedir.
10:21	10:24	 General statements regarding occupational health and safety plans were made within this framework; The issues taken into account within the framework of OHS plans were explained item by item. It was underlined that only authorized individuals will be able to access the areas where renovation works will be carried out, and therefore the access of building users will be restricted in some periods. It was reminded that work plans should be evaluated within this framework. General OHS rules and especially the measures to be taken for environmental safety were mentioned. 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 9 PRESENTATION FILE SHARED SECTIONS_04
		is Sağlığı & Güvenliği Yapmı sürecinelişkin şazlığının abkerdisi plantılamıylır Yükendifirmanır. 1- Barlimen bardının is Sadlığı Güvenliği AN ve bir Andread Barlimen barlımının servinleri deliği. Dütir colornolin laşarı məlyetti is Sadlığı Güvenliği AN ve bir Andread barlımının ve Müşeri congrus yarmazı zarudır. Andread katı kanının ber görileri barlımının berindiri servinleri barlımının berindiri servinleri barlımının berindiri servinleri barlımının berindiri servinleri barlımının berindiri servinleri barlımının berindiri servinleri barlımının berindiri servinleri barlımının barlımının berindiri servinleri servinleri servinleri barlımının barlımının berindiri servinleri







		is Sağlığı Güvenliği Calışarılamı tarınımı şi SAÜLGİ GÜVENLÜİ PLAN içinde belintine lejele koruyucu doranımları dejelmi yıldık kulturmalay viktorilamı saylarınının şi SAÜLGİ GÜVENLÜİ PLAN içinde belintine lejele koruyucu doranımları uygan şidele tuşmayarı fulformayarılarının çalışmatırının şinarazılığı bölgeler, deprem riki de dikkata alırarak belirinemiş ve valyet pirinde mağ götürlimişti. Ormakişinde koruyucu doranının şinarazılığı bölgeler, deprem riki de dikkata alırarak belirinemiş ve valyet pirinde mağ götürlimişti. - Baret. 15 KI N379-AL - Küldi Kilozo-15 KIN 30-21 - Koruyucu dörüler. 15 KIN 50 21-20 - İş Ayakabası-15 KIN 100 (2014) - İş Ayakabası-15 KIN 100 (2014) - Yarem i'di Madadut. 15 KIN 100 (2014) - Parayöl (Fig. Emelyet Remen - 15 EN 961 (Sadoce yükselte çalgan personeller)
10 : 24	10 : 26	 Information was given about the traffic action plan. Health & Safety Organization was explained. Image 10 PRESENTATION FILE SHARED SECTIONS_05
		Trafik Eylem Planı • Kampüsiçin sarşisultanmlarıra lişkin sarıntar iş sağluğ güvenliği planlı gönde belirdiringir.
		The state of the s
10:26	10: 29	■ The environmental impacts of the work to be carried out are explained.







2023

Image 11 PRESENTATION FILE SHARED SECTIONS_06 ATLASCOT HILL Cevresel Etkiler Proje sahası; Boğaziçi Üniversitesi Kandilli Kampüsü alanı içerisindedir. Kampüs dışında yer alan diğer binaların inşaat süreçlerinden doğrudan etkilenmeleri söx konusu değildir. Paaliyet alanı çevresi aşağıda göst erilmiştir. Cevresel Etkiler İnşaat çalışmaları sırasında, bölgede hâlihazırda mevcut olan kanalizasyon, elektrik ve su şebekeleri kullanılacılıktır. Evsel atkkin, beledige hzmetlerinden faystlahnlorisk bestranf edileció, diger atkkin igni sie geçci depolama atariar i odsturuluja isarnif firmisiora bestranfinin yopimisa sajánoralatin. Proje dereinde herhangi bir akupia firmed alim gelefrena di Amurati (jamallauguri hallandi taliamisa socioca ularni (vladiziora) akupia firmed alimani para dereinden ATLASCOT! HILL ATLASCOT! HILL Çevresel Etkiler Çevresel Etkiler Proje kapsamında; Müşavirin, Yüklenici firma personellerine vereceği eğitiriler sonucunda, yüklenici firmanın kurumsal kapasitesinin gelişmesi beklenmektedir. Bu eğitimler aşağıda listelenmiştir. İnşaat, Hafriyat Atıkları: Söküm faaliyetlerisonucunda binaya alt zimmetli malzeme oluşması durumunda bina yönetimine çıkan malzemenin teslim edildiğine dair belge alınacaktır. İnşaut/yıkıntı atıklarının kazanı'ması ve özellikle alt yapı malzemesi olarak yeniden değerlendirinesi öncelikli olarak ele alınacaktır. Hatriyat atıkları ilgili belediyenin atık depolama tesisine gönderilerektir Atıkların sahayakobul deliceğine deir Beledeyeniden resmi yazı alınarak (karıye sunulacaktır. ATLASCON' HILL Çevresel Etkiler ATLASCORT HILL Atık Yönetimi Cevresel Etkiler Atık Yönetimi Oluşacak evsel nitelikli atıklar kaynağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir olanların geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim Santiye sahasında oluşması muhtemel tehlikeli kimyasal madde ve abblanın Çevre Şehirclik ve İklim Değişlikliği Balanlığı çevrimiçi programı Entegre Çevre Bilgi Sistemi (E-ÇBS) üzerinden atık yönetimi yayılarınası kilmlarılarık kisandı bertarafı (taylarınısı serbedirlevikler). 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 szantı emici ped kitleri** hazır bulundurulacaktır. Görevli bütün perso tehlikelikimyasal sızıntı ve döküntüsüne ilişkin korunma ve acil durum eğitimine tabi tutulacaktır. Ambalaj Atıkları; Kontamine olmamış geri dönüstürülebilir atıkların (plastik, cam, kağıt, vb.) geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir. Ortave büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır. Todiat/inşaxt çalışmalan sırasında sökülen kulanılmış floresan lambalar ruhsatlı tesislerde bertaraf edileciklir. Malasmenin taşınmasına ve bertarafıra ilişkin gerakli belgeler, inpat şantiyesinde tutularak ve istenirse ÇSiD8ve Dünya Bankası'naibraz edilecektir. Tehlikeli maddeler ile kontamine olmuş atıkların tamamı, tehlikeli atık statüsünde değerlendirilecektir.







10:29	10:32	 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 Paydagharmaa aktarmak istediğimik hususlar şunlardır; * 50 konusu çılışmaları biya dayarımın olumuz edilemeşi iki konusu değildir. * 60 içindirine ve manaqının çılıymalarınınmandık üllence ve iğir paydaşların çılıyma sahaların yaklaymaların husundaya çılıymalarınınmandık ve memilir çılış edileyini. * 60 içindirine ve Removayeri çılıymalarınınmandık üllence ve ildeğir edileyine sahalarının yaklaymalarının karalının yaklayılarının karalının yaklayılarının karalının yaklayılarının karalının yaklayılarının yaklayılarının karalının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayılarının yaklayının yaklayılarının yaklayının		
		Sosyal Etkiler		
		Projes lappan moda. Majayarinin Yaliferid joppsorou dinakun di sugi pilinin transucunda yülderid Irimanni kururmali kapan toldiri kurinin selayimi belik fordisori. Bi sugi pilinin varajud i Birdenmijir. Cerresta in Sorya i Birden. Projes Establi Majayarinin Yaliferidami Salder/Erined Salder/Er		







10:32	10:33	 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 			
		Niderleft finalisms spendern (s. salpije ve generili) laumiten in general general socijal editivi (visionimic, be preje indicinis hozelmen 150 pinni (prish-papelarmyr) ve ligili Nider, edepatara indig entheljis.			
10:35	10:40	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 Oneri şikayet Sistem			









10:40	11:10	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 works start?	Orhan Kenan Sülahi	It has been stated that the process will start after the tender phase.
02	Participant 2	The collective improvement of the boiler room has been included in the plan. This building provides common gas supply. If that boiler is renewed, other boiler rooms not included in the project will also be involved. Do you have any other suggestions regarding this?	Hüseyin Tavaslıoğlu	It has been mentioned that there were difficulties due to the inability to accurately determine natural gas consumption for the building, and that other considered alternatives were not financially feasible, suggesting that evaluating it as a new individual boiler system would be appropriate.
03	Participant 3	Is it possible for you to share the OHS plan with us?	Tülün Yıldırım	It was stated that the OHS plan has been completed, and it will be accessible on the website during the day, and the contracting company will also determine an OHS plan accordingly.











04	Participant 4	Will we, as the dormitory building users, be affected?	Orhan Kenan Sülahi Ganime Güzel	It was noted that there are World Bank standards, and attention will be paid to these. It was mentioned that in the ESMPs disclosed on the buildings, on our website, and on the university's website, they can see the precautions, and the documents were prepared to avoid any problems.
05	Participant 5	How long will the project last after the building is vacated?	Orhan Kenan Sülahi	It was indicated that it will take a total of 6-8 months.
06	Participant 6	Can we see the core drilling results?	Orhan Kenan Sülahi	It was stated that it can be requested from the administration but not directly shared.
07	Participant 7	Does the addition of the boiler room cover a significant area?	Hüseyin Tavaslıoğlu	It has been stated that since the project will be retrofitted, a smaller capacity boiler will be built.
08	Participant 8	Will the shapes of the rooms change?	Orhan Kenan Sülahi	It was stated that there will be no functional changes.









Table 2 MEETING NOTES & GENERAL EVALUATION

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



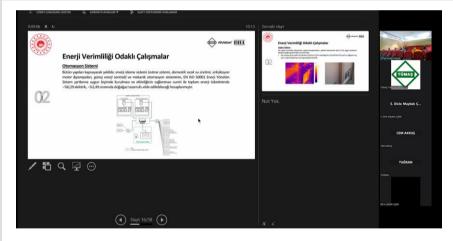






Table 3 **MEETING VISUALS**

















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) Orhan Kenan Sülahi (Energy Systems Engineer)
- 4) Cem Akkuş (Occupational Health and Safety Specialist)
- 5) Mehmet Tuğran Atay (Environmental Expert)

PROJECT IMPLEMENTATION UNIT PARTICIPANTS

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

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







Stakeholder Engagement Meeting Presentation









KAMU BİNALARINDA DEPREM DAYAMIMI & ENERJİ VERİMLİLİĞI PROJESİ

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

https://kamuguclendirme.csb.gov.tr





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

Bu sunum; Boğaziçi Üniversitesi Kandilli Kampüsü'nde yer alan YENİ JEOFİZİK BİNASI (1.100 m²) yapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmaları hakkında bilgi verecektir.













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- Gepine ve çata termoliyal tırrı
 dirkolasyon sistem motor/per



Yapısal Güçlendirme

Taşıtıcı Sistem Güçlendirme

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





Yapısal Güçlendirme

Taşıtıcı Sistem Güçlendirme

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







Yapısal Güçlendirme

Taşıyıcı Sistem Güçlendirme

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





Yapısal Güçlendirme

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













güclendirme isleri tamamlanır.

ince işler



Enerji Verimliliği Odaklı Çalışmalar





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Kaba inşaatın tamamlanmasının ardından onanm işlerine geçilir. Güçlendirme perdelerinin iç ve diş yüzeylerinin sıva, boya, yalıbın vb. uygulamalın, bozulan zeminlere texiyiye betonu ve kaşılama malzemen düzerlemledir, delktrik tesisal ve mekanik tesisat moralajın ve geröklyorsa kapı pencere imalatları yapılarak

Çatı Üzeri Güneş Enerji Santralleri Kandilli Kampüsü içinde yer alan Yeni Jeofizik Binası çatısına güneş enerji santrali

Yapılan hesaplamalar söz konusu sistemin yılda yaklaşık olarak 44.274,20 kWh/yıl elektrik üretim potansiyeli barındırdığını göstermektedir.

Panel Sayısı: 62 Ad. Sistem Gapasitesi: 33,79 kWp



Enerji Verimliliği Odaklı Çalışmalar

Isıtma ve Soğutma Sistemleri

Bina özelinde 2 adet duvar tipi 115 kW kapasiteli yoğuşmalı kazan tesisi ve yeni isi merkezinin kurulması







Enerji Verimliliği Odaklı Çalışmalar

Dış Kapı ve Pencere Değişimi

- Bina dış cephelerinde bulunan demir kapıların yerine ısı yalıtımlı alüminyum doğramalı ikameleri (4,32m2) ile değişimi ve PVC kapıların 4x16x4 çift camlı ve termal yalıtımlı kapılar ile değişimi sağlanacaktır. (8,64 m2
- uygulama alanı) Mevcutta bulunan 4x12x4 ölçülerindeki PVC pencere sistemlerinin PVC doğramaya profil ile 444 mm kalınlıkta 16 mm ara boşluklu ilk camı güneş ve ısı kontrol kaplamalı çift camlı pencere ünitesi ile değişimi





Enerji Verimliliği Odaklı Çalışmalar

Termostatik Vana Tesisi

Proje kapsamına giren Tüm yapılanın radyatör peteklerinin besleme kısmına termostatik vana tesisi önenilmektedir. (71 Vana, 8 Adet yedek)







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Enerji Verimliliği Odaklı Çalışmalar

Aydınlatma Elemanları LED Dönüşümü

Boğaziçi Üniversitesi Kandilli Kampüsü Yeni Jeofizik Binas/nda, benzer aydınlatma şiddeti ve renk sıcaklığına sahip LED aydınlatma armatürleri (204 adet) ile değiştirilecek ve Koridor, WC gibi mahallere hareket sensörü (26 adet) uygulaması yapılacaktır.







Enerji Verimliliği Odaklı Çalışmalar

Bütün yapıları kapsayacak şekilde; enerji izleme sistemi (ısıtma sistemi, domestik sıcak su üretimi, sirkülasyon motor &pompalan, güneş enerji santrali) ve mekanik otamasyon sisteminin, EN 150 50001 Enerji Võnetim Sistem şartlarına uygun biçimde kurulması ve etkinliğinin sağlarması sureti ile toplam enerji tüketiminde ~%0,29 elektrik, ~%2,49 oranında doğalgaz tasarrufu elde edilebileceği hesaplanmıştır.



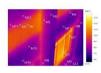




Enerji Verimliliği Odaklı Çalışmalar

Dış cephe kontrolleri neticesinde; yapılan hesaplamaların, yalıtımlı bölümlerde dahi TS 825 asgari şartlarının Agyara kulti oligöstemiştir. Buçerçevede;
 Dış Havaya Açık Cephe Duvarlarına (810m2) 10cm kalınlığında Us0,035Wm2/K şartını sağlayan taş

yünü cephe kaplaması tesisi gerçekleştirilecektir







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Enerji Verimliliği Odaklı Çalışmalar

Yapılan hesaplamalar neticesinde Boğaziçi Üniversitesi Kandilli Kampüsü Yeni Jeofizik Binası özelinde belirlenen önlem senaryolarının hayata geçirilmesi ile toplam enerji tüketiminde 61,48% oranında tasarruf elde edilebilecek, yaklaşık 115,43 ton/yıl sera gazı emisyonu engellenebilecektir. Söz konusu renovasyonlar ve venilenen sistemlerin EN ISO 50001 Enerii Yönetim Sistem şartlarına uygun biçimde işletilmesi ile yıllık 77.325,01 kWh elektrik, 373.053,37 kWh doğalgaz tasarrufu sağlanabilecektir. Söz konusu tasarrufun maddi boyutu yaklaşık 755.377.27¢/yıl seviyesindedir.















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İş Sağlığı & Güvenliği

Yapım sürecine ilişkin, iş sağlığı ve güvenliği planları hazırlanmıştır. Yüklenici firmanın;

 Tarafımızca hazırlanan İŞ SAĞLIĞI GÜVENLIĞI PLANI doğrultusunda, sorumlu olduğu bütün çalışmaları kapsar mahiyette İS SAĞLIĞI GÜVENLIĞİ PLANI ve Risk Analizini hazırlaması ve Müsavir onavına sunması zaruridir. Ancak söz konusu plan, analizlerin uygun görülmesi sonrasında çalışmalar başlayacaktır.

Paydaşlanmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

· Mobil ving, kompresör vb. iş makinelerinin tamamının periyodik muayene raporlarının temin edilmiş olması ve makineler içinde hazır bulundurulması zaruridir. Söz konusu makineler, yetkili operatörler tarafından kullanılabilir. Operatörler yetki belgeleriri hazır bulundurmalı ve saha kontrolleri, denetimleri esnasında yetkili Sü zumanlamınıtalepleri döyrultusunda beyan edebilmelidir.

İş Sağlığı Güvenliği

- Sahada kullanı'an her türlü elektrikli cihaz/ekipmanın elektrik açıdan güvenli olduğunu gösterir PAT testleri yapılmış olmalıdır. Söz konusu ekipmanların tamanında cihaz üzerlerinde uygurluğu gösterir etikerler yer almalıdır.
- Ancak uygun Mesleki Yeterliik Belgesine sahip çalışanların sahaya girmelerine izin verilecektir.
 Bütün çalışanları görevleri çerçevesinde uygun kişisel koruyucu ekipmanlara sahip olmalı ve etkin olarak kullanmalıdır.
- Bütün çalışanların, «Temel İSG Eğitimini», «Risk Analizi Eğitimini» almış olması zaruridir.
- Yüksekte çalışacak personellerin «Yüksekte Çalışma Eğitimi» almış olması zaruridir.
- Bütün çalışanların «EKED Etiketle Kilitle Emniyete Al Dene Eğitimini» almış olması zaruridir.
- Culsanizon sis SAĞIXG ÜVEN KİĞİ PLANix jonde belirilen diğer işili eği timleri coloşma öncesinde almasızarındır.
 İş iskelelerinin TS EN 12811-1 stroktar sattırını kayalması esastır. Sük konsus iş iskelerinde çalgacık bütün personellerin yükselete çalgıma eğitimi almış olmalan, paraşit işin emniyet kemeri ve düşme ergelisiyici ekkimarlan. kullanmaları zanıridir.
- Kampüs kindei ŞSAĞLIĞI GÜVENLIĞI PLANI kindebelirtilen «TRAFİK EYLEM PLANINA» uygun hareket edilmelidir.
- Yüklenici firma; bu çalışma sahası özelinde acil durum eylem planları geliştirmeli ve bütün çalışanlarını kapsar mahiyette tatbikatlar gerçekleştirmelidir.

İş Sağlığı Güvenliği

Çalışanların tamamı İŞ SAĞLIĞİ GÜVENLIĞİ PLANI içinde belirtilen kişisel koruyucu donanımları disiplinli şekilde kullarınmakla yıktıkmılıdığır. Sox konusu donanımları uygun şekilde taşımayarı/kullarımayanların çalışmalarını izin verilmeyecektir.



- Baret TS EN 397+A1
- KulakTikacı-TSEN 352-2
- Koruyucu Gözlük TS EN ISO 16321-3
- Genel Amaçlı İş Eldiveni TS EN ISO 21420
 İş Ayakkabısı TS EN ISO 20347
- Yarm Yüz Maskesi TSEN 140
 Paraşüt Tipi Emniyet Kemeri TS EN 361 (Sadece yüksekte çalışan perso





İş Sağlığı Güvenliği

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





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Trafik Eylem Planı

Kampüs için araç kullanımlarına ilişkin sınırlar İS SAĞLIĞI GÜVENLIĞİ PLANI içinde belirtilmiştir.





Sağlık & Güvenlik Organizasyonu





Cevresel Etkiler

Proje sahası; Boğaziçi Üniversitesi Kandilli Kampüsü alanı içerisindedir. Kampüs dışırda yer alan diğer binaların inşaat süreçlerinden doğrudan etkilenmeleri sör innusu debildir. Fasiliyat alan sayan sayat sayat ingali sayat







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Cevresel Etkiler

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



Eved atklart, beledige hörmetlerinden faydsbindbrak bertranf edilecik, dilger atklart (ni be geçti depolama alarlan dustrudug biandi firmalarci bertranfilm yepimise sağlarıcıları. Proje cedende herhargi bir hizmedi alırmı, uzun sürel elektrik kasındırı firmali pirareları, uzun sürel sa kesindi kolu brankel et bolu müzadele kol, mexcut alapşırı inkinları (jenesitör kol, değerlendirlecek ve iğili yönetmeliklere uygun darakgeçriçlerilericektir.

Cevresel Etkiler

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















Çevresel Etkiler



Çevresel Etkiler

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Çevresel Etkiler

Atık Yönetimi



İnşaat, Hafriyat Atıkları:

- Söküm faaliyetleri sonucunda binaya ait zimmetli malzeme oluşması durumunda bina yönetimine çıka malzemenin teslim edildiğine dair belge alınacaktır.
- İnşaat/yıkıntı atıklarının kazanılması ve özellikle alt yapı malzemesi olarak yeniden değerlendirilmesi öncelliki olarak ele alınacaktır. Hafriyat atıkları liğil belediyenin atık kepolama tesisine gönderlerektir. Atıkların sahayakablu eldireçilen dalı Belediyelenden rismi yaz alınarak İdarqıyes sunulacaktır.

Atık Yönetimi

Tehlikeli atıkların yönetimi, Atık Yönetimi Yönetmeliği uyarınca gerçekleştirilecektir.



- Proje subsonda tellisti aldatum gecil clanic deodermon durumunda staller, sallam, sudmus, emriyetti va dustaransa khali primiti stradartasa ugupa londrinyerlerde va proja ihan iprefinide muhattas edilecek, lordrepreferin tzerinde eshilesi alak ibasesine yer verilecek ve depotama maddem alak lodu, miktar, jegil, deellikelek, konvan kojullar ve depotama tarih kordreprefer derlam yülkiniri. Ilma turufindan musuada uygun olanak binerade ibaresinden üm almarak kelelimencek verilgoriesek kensangalaraktilerkilerkileri.
- Zararlı maddelerin saklandığı konteynerler ve atık yağlar toprağa dökülme ve sızıntıyı önlemek için sızdırmaz beton alanlara yerleştirileçektir.
- Zehirli iceriğe sahio boyalar, eritici madde (solvent) va da kursun bazlı kimyasallar kullanılmayacaktır.

Atık Yönetimi



- Santiye sahasında oluşması muhtemel tehlikeli kimyasal madde ve atıkların Çevre Şehircilik ve iklim Değişikliği Bakanlığı çevrimliği programı Entegre Çevre Bilgi Sistemi (E-ÇBS) üzerinden atık yönetimi uygularması kullanılarıklı kisansi bertaraf tesislerine göndenle cektir. Çalışma sahalarında döküntü sızıntı emici ped kitleri hazır bulundurulacaktır. Görevli bütün personeller tehlikeli kimyasal sızıntı ve döküntüsüne ilişkin korunma ve acil durum eğitimine tabi tutulacaktır.
- Orta ve büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır.
- Tadilat/inyaat çalışmaları sırasında sökülen kullanılmış floresan lambalar ruhvatlı tesislerde bertaraf edilecektir. Malbemerin taşınmasına ve bertarafına ilişkin gerekli belgeler, inşaat şantiyesinde tutulacak ve stenines ÇBİDEV büriya Bankası'nalbrus edilöcektir.

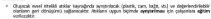


Çevresel Etkiler









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

Ambalaj Atıklarç

- 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, tehlikeli atık statüsünde değerlendirile cektir.





Paydaşlarımıza aktarmak istediğimiz hususlar şunlardır;

- $\bullet \ \ \mathsf{S\"{o}z}\ \mathsf{konusu}\ \mathsf{calişmaların}, \underline{\mathsf{bina}}\ \mathsf{dayanımını}\ \mathsf{olumsuz}\ \mathsf{etkilemesi}\ \mathsf{s\"{o}z}\ \mathsf{konusu}\ \mathsf{değildir}.$
- Güçlendirme ve renovasyon çalışmaları esnasında, kullanıcı ve diğer paydaşların çalışma sahalarına yaklaşmamaları hususunda yapılan uyarıları di kikate alarak destek vermenizi rica ediyoruz.



Bütün çalışanlar ayrımcılık, cinsiyet temelli şiddet konusunda bilgilendirilecektir ve proje kapsamında bu tip davranışlara hiçbir şart ve koşul attında izin verilmeyeceği bil dirilmiştir. Bu yaklaşıma ayları hareket ederlerin, projede görre almanına yak oğ görvelerinin devamlılığına müsade edil meyecektir.



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Sosyal Etkiler

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



- Paydaş Katılım/Bilgilendirme Faaliyetleri
- Sikavet Mekanizması (SM)
- Cinsiyet Eşitliği / Cinsiyet Ternelli Şiddet/Cinsel Sömürü/Cinsel Saldırı/Cinsel Taciz





















Yüklenici firmaların uymaları gereken iş sağlığı ve givenliği kuralları ile genel çevresel sosyal ettiler/önlemler; bu proje özelinde hazırlarıan İSC PLANI ve ÇEVRESEL ve SOSYAL YÖNETİM PLANI içinde açıklarımıştır.





Öneri Şikayet Sistemi

Oneri ve şikayetlerinizin; içeriği ne olursa olsun, nasıl kaleme alınırsa aların bizm için değeri olduğunu bilmenzi istyruz. Genel etik ikleilere uyun iletocoğiniz öneri ve şikayetlerinizden dodayı dumsuz herharigi bir durumla karşılaşmayacağınızı, eleşilirmleyeceğiniz garanti edyoruz. Öneri ve şikayetlerinizi harqı yürlerinle iletiresiz iletin (şikayetlerinizi harqı) yürlerinle iletiresiz iletin (şikayet kutuları), medi internet formları, yüz yüze edili, yü de deletiri, heşil eyin şeklerini neren gizi beliş istahistinderi, tarafaz bir kuntu tarafından noğlenir.

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

Öneri Şikayet Sistemi



Cevre, Şehircilik ve İkim Değişlidiği Bakanlığı'nın (CŞİDB) hem telefon hem de web sitesi sancılığıyla erişliledilin bir No181' yardım hatıtı vardır. Bu yardım hatıtı ayını zamanda çalışınları, özüm ortakları edha gein zilmerler için bakanlık düyayde bir şikişker herikarizması işlevi görür. ÇŞİDB tarafından sağlarıanı tilm çovro və şehir hizmotleri ilə işli isoru, talap və şikayetler portleysined danay kiyarleri A.O. 181 çağın merkezi barafından yarıtlarımaktadır ya da Proje Uygulama Birimine liotlimiskiddir.

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

: Alo 181 : 0312 586 4858 : yigmkadev@csb.gov.tr : https://kadevoneri.csb.gov.tr/oneri.jsp









ATLASCHT HILL

İlgi ve anlayışınız için teşekkür ederiz!





