





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

KOCAELİ SPECIAL PROVINCIAL ADMINISTRATION KANDIRA STUDENT DORMITORY DIRECTORATE-GIRLS' & BOYS' DORMITORY

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

GDCA General Directorate of Construction Affairs

GM Grievance Mechanism

ILO International Labor OrganizationITU Istanbul Technical University

LOTO Lock Out-Tag Out

M&E Monitoring and Evaluation

MoEUCC Ministry of Environment, Urbanization, and Climate Change

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

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Executive Summary

Seismic Resilience and Energy Efficiency in Public Buildings (SREEPB) Project focuses on seismic strengthening 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 strengthening and energy efficiency improvement works at the Girls & Boys Dormitory building (A1 Block, A2 Block and B Block), located within the Kocaeli Special Provincial Administration Kandıra Student Dormitory Directorate. 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.

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Introduction

This Environmental and Social Management Plan (ESMP) has been prepared within the scope of the Seismic Resilience and Energy Efficiency in Public Buildings Project (SREEPB), focusing on the structural strengthening and energy efficiency improvement activities to be carried out in the Kocaeli Special Provincial Administration Kandıra Student Dormitory Directorate Girls & Boys Dormitory building (A1 Block, A2 Block, and B Block) located at No:8 PK:41600 Kandıra/KOCAELİ. It aims to identify measures to mitigate or eliminate the potential adverse environmental and social impacts and risks that may arise from these activities, ensuring they are maintained at an acceptable level.

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

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1 1. General Project and Project Area Information

1.1 1.1 Project Description

1.1.1 1.1.1. General Information and Objectives

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

The aim of the project is to determine the behavior of the ground and structural systems of existing public buildings with different uses against earthquakes and to eliminate the risks by structurally strengthening them, as well as to make improvements in terms of energy efficiency, to reduce energy consumption and 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 strengthening 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.

Bu ÇSYP'ye konu olan alt-proje kapsamına giren yapılar Kocaeli İl Özel İdaresi Kandıra Öğrenci Yurt Müdürlüğü Kız & Erkek Öğrenci Yurdu binasının (A2 Blok, B Blok, A1 Blok) içerisinde bulunmaktadır. Proje faaliyetlerinin gerçekleşeceği bina dışında diğer bina/yapıların ya da öğrenci yurt binalarının bulunduğu sahanın proje faaliyetlerinden doğrudan etkilenmeleri söz konusu değildir. Bunun yanı sıra kapsama giren yapılar inşaat faaliyetleri esnasında kullanım dışı bırakılacaktır. Dolayısı ile proje faaliyet takvimi ile günlük faaliyetlerin çakışması gibi bir durum da söz konusu değildir.

The structures within the scope of the sub-project subject to this ESMP are located within the Kocaeli Provincial Administration Kandıra Student Dormitory Directorate Girls & Boys Student Dormitory building (A2 Block, B Block, A1 Block). Other buildings or structures, as well as student dormitory buildings, in the area where the project activities will take place, are not directly affected by the project activities. In addition, the structures within the scope will be temporarily out of use during construction activities. Therefore, there is no overlap between the project activity schedule and daily operations.

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This ESMP has been prepared as a guidance document for the SREEPB Project has been prepared to eliminate or reduce to an acceptable level 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) risks, in compliance with the requirements of the World Bank (WB) and relevant national legislation.

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

1.1.2 Project Information

The satellite image of the Kocaeli Special Provincial Administration Kandıra Student Dormitory Directorate Girls' and Boys' Dormitory (A1, A2, B,) Building, which is within the scope of the project, and detailed information about the building are given in Figure 1.1 and Table 1.1, respectively.



Figure 1-1: Kocaeli Special Provincial Administration Kandıra Girls' and Boys' Dormitory

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Table 1-1: Building General Information

Table 1-1: Building Gener	at thiot mation		
CAMPUS NAME	Kocaeli Special Provincial Administration Kandıra Student Dormitory Directorate		
BUILDING NAMES (included in the project)	Girls' and Boys' Dormitories • A1 Block (4633,43 m2) • A2 Block (4632,60 m2) • B Block (2614,54 m2)		
PROVINCE	Kocaeli		
DISTRICT	Kandıra		
NUMBER OF USERS	~508 per/day		
	BUILDING INFORMATION		
CONSTRUCTION AREA	$\sim 11 \text{ XX} \cdot \text{S} \cdot \text{/m}^2$		
THE PLANNED W	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 strengthening activities 			
ENERGY EFFICIENCY	 Facade and roof thermal insulation Door changes Thermostatic valve installation for cast radiator honeycombs Installation motor/pump changes Insulation to cover the entire structure instead of scraping the existing insulation Thermal insulation of 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 made.) Self-consumption focused solar power plant facility (on the roof) (to be integrated into the existing supply line) Establishing and ensuring the effectiveness of the Energy Management System, Energy Monitoring System and Mechanical Automation System Replacement of Air Conditioning and Ventilation unit motors with high efficiency motors 		

DURATION AND SEASON OF ACTIVITIES

All works 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 work in the buildings within the planned timeframe as specified in the Job Description. Additionally, the Contractor will inform all stakeholders clearly and in advance about the construction activities' schedule before commencing any construction work.

EXPECTED NUMBER OF WORKERS

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

1.1.3 Locations of Campus & Buildings

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



Figure 1-2: Kocaeli Special Provincial Administration, Kandıra Student Dormitory Directorate, Girls' and Boys' Dormitories, Block 496/3 Parcels



Student Dormitory Coordinates		
No	Latitude	Longitude
1	30.13475883257089	41.07932042175011
2	30.13461774273004	41.07928398271239
3	30.13449757505533	41.07917568367588
4	30.13495281926552	41.07886221637257
5	30.1350921970123	41.07872531647003
6	30.13531190676641	41.07873303407414
7	30.13540585866851	41.07878834954563
8	30.13594651853373	41.07879317538582
9	30.13590932398147	41.07901570275919
10	30.13538499573195	41.07899583666141
11	30.13538092494872	41.07893817109307
12	30.13522136101096	41.07897533864122
13	30.13512322968242	41.07899630382717
14	30.13506101586412	41.07904221932026
15	30.13511239053764	41.07906523407473



Figure 1-3: Kandıra Girls' and Boys' Dormitory Building View and Coordinates

During the retrofitting and renovation in the buildings, potential adverse effects primarily occur inside the building, and since there is no need for soil improvement works, the effects that may reflect outside the building, such as noise and dust formation, increased traffic, parking space shortage, vibration, and visual effects, are limited to a distance of 100 meters affecting surrounding buildings. It is limited and its major domain is shown in Figure 1.4.



Figure 1-4: Major Impact Area and Surroundings of the Buildings Included in the Scope of the Project

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

2.1 2.1 National Regulation

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

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

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

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- 24. Regulation on Health and Safety Measures to be Taken in Workplace Buildings and Attachments was published in the Official Gazette No. 28710 dated 17 July 2013.
- 25. The Regulation on the Working Conditions of Pregnant or Breastfeeding Women, Breastfeeding Rooms and Child Care Dormitories was published in the Official Gazette No. 28737 dated 16 August 2013, and an amendment was made in the Official Gazette No. 30881 dated 7 September 2019.
- 26. The Regulation on the Working Conditions of Female Employees in Night Shifts was published in the Official Gazette No. 28717 dated 24 July 2013 and an amendment was made in the Official Gazette No. 30159 dated 19 August 2017.

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

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

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

2.2 International Conventions

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

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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

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

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.

Istanbul Technical University Ayazaga Campus - Faculty of Aeronautics and Astronautics, Institute of Science, Faculty of Naval Architecture and Maritime, Faculty of Mines

3 Activities to be Conducted within the Scope of the Project

The summarized technical information regarding the structural reinforcement and energy efficiency works to be carried out in the Kandıra Girls' and Boys' Student Dormitory Building, located within the Kocaeli Special Provincial Administration Kandıra Student Dormitory Directorateis provided in Table 3.1 below. This Environmental and Social Management Plan (ESMP) will be accessible to all stakeholders throughout the project's duration, both at the construction sites and on the project's website (www.kamuguclendirme.csb.gov.tr). Additionally, to ensure stakeholders have sufficient information about the project before the briefing meeting, a draft ESMP will be disclosed on the Kocaeli Special Provincial Administration official website (www.kocaeli.gov.tr) at least 10 days before the meeting. The contractor will employ a full-time environmental, social and occupational health and safety (OHS) specialists, while the Construction Supervision Consultant firm will employ an environmental, a social, and OHS expert. The Consultant, Contractor, and Ministry Project Implementation Unit (PIU) will be responsible for recording and responding to environmental, social, and OHS questions and opinions raised by stakeholders.

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

FIELDWORK

DEFINITION
OF THE
GEOGRAPHICA
L, PHYSICAL,
BIOLOGICAL,
GEOLOGICAL,
HYDROGRAPH
IC, AND
SOCIOECONOMIC
CONTEXT



Figure 3-1: View of Kandıra Girls' and Boys' Dormitory Building

Within the scope of the project, work is planned to be carried out in the girls' and boys' student dormitory building located within the boundaries of Kandıra district of Kocaeli Province. During the execution of project activities (such as scaffolding installation, painting, exterior cladding, etc.), it is expected that the soil around the buildings will be affected by construction activities. Necessary precautions will be taken to prevent the contamination of the soil with hazardous chemicals during the works in this area. Measures to manage the potential environmental and social impacts and risks of the project are detailed in Section 5. There is no anticipated problem with accessing the project area. All infrastructure facilities required for the works, including electricity, water, sewage, natural gas, and internet, can be accessed.

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The project site is within the borders of Kocaeli province, Kandıra district. The majority of the retrofitting and renovation works will be carried out inside the building. Preventing the negative effects of settlements close to the project area from construction activities is presented in this ESMP and will be kept under control and managed with impact mitigation measures.

The activity area and its surroundings are shown in Figure 1.4. The major impact areas resulting from the operations to be carried out within the scope of seismic retrofitting and energy efficiency for the buildings that will take part in the activity and their distances to the buildings are given below.

Kocaeli Special Provincial Administration, Kandıra Student Dormitory Directorate Girls' and Boys' Student Dormitory Building Renovation Works are within the major impact area;

- Şehit Yavuz Sonat Güzel Vocational and Technical Anatolian High School (20 m)
- Kocaeli Special Provincial Administration Student Dormitory Directorate (40 m)
- Traffic Branch Directorate (135 m)
- Kandıra Vocational and Technical Anatolian High School (97 m)
- Stone Pit (95 m)

Possible problems that may be encountered in waste management the spread of excavation waste outside the construction site, dust, noise, vibration and public health and safety, etc. problems may negatively affect those working/living in the buildings in question that are in the major impact area. Detailed information on the subject and 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 Kandıra Student Dormitory Directorate (since the building will be evacuated before reinforcement works begin, there will be no occupants in the building during the works). The construction schedule will be kept updated and displayed in a visible location at the construction site throughout the project duration for stakeholders to see.

All buildings located in close proximity to the project area are considered sensitive receptors, and measures to prevent these sensitive receptors from being affected by potential environmental and social impacts/risks are presented in Section 5 as mentioned above. M. Kazım Dinç Kandıra State Hospital is located 2.7 km away from the project site. Considering the traffic conditions, it takes approximately 5 minutes to reach by car. This information will be taken into account during the preparation of occupational health and safety emergency action plans.

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

TRAFFIC ACTION PLAN

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

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



Figure 3-2: Traffic Action Plan

SEWAGE SYSTEM, ELECTRICITY, WATER NETWORKS, ETC. INFRASTRUCT URE USED BY THE PROJECT

During the construction activities, the existing sewage, electricity, and water networks in the area will be utilized.

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

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

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

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

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

STAKEHOLDER ENGAGEMENT PROCESS

NATIONAL LEGISLATION AND PERMITS APPLICABLE TO THE PROJECT ACTIVITY (EG. SPP INSTALLATION ETC.)VB.)

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The first stakeholder participation meeting regarding the feasibility studies carried out before the field evaluation (determination of the need for structural strengthening, energy audit studies) was held face to face on 30.03.2023 and general information was given about the technical details, purpose/targets and stages of the project. The beneficiary institution management, technical units, dormitory staff and PIU experts attended the meeting. Due to the earthquake, the government allocated state dormitories to earthquake victims, so there were no students staying in the dormitories at the time the meeting was held. At the same time, earthquake victims were not accommodated in this dormitory. In other words, there were no beneficiaries other than the staff working in the dormitory building. (Total of 41 people (21 female, 20 male)) (Participants and the consultant company's Social Expert and Energy Systems Engineer participated face to face; the Project Implementation Unit's Building Expert, Environmental Expert, Social Expert, OHS Expert and 2 Civil Engineers participated online.) (Annex VI)

STAKEHOLDER ENGAGEMENT PROCESS

Before the implementation of the prepared and approved projects, a stakeholder information meeting was held on 17.04.2024 in order to provide information about the technical, social and environmental details of the project by relevant experts, to answer all questions of the participants about the project and to obtain their opinions. At the meeting, detailed information was given about the retrofitting and energy efficiency renovations to be made in the Kocaeli Kandıra Girls' and Boys' Dormitory buildings and the anticipated environmental and social impacts were explained. The beneficiary institution management, technical units, dormitory students, consultant company experts and PIU experts attended the meeting. A total of 24 people (15 female, 9 male) attended the meeting face to face; 2 Environmental Experts, Sociologists, 2 Social Experts, 3 OHS Experts and Energy Systems Engineers participated online (4 female, 5 male).

Before the information meeting, this ESMP was made available to stakeholders for 10 days on both the project website (https://kamuguclendirme.csb.gov.tr/) and the website of Kocaeli Provincial Dirsctorate of Youth and Sports (kocaeli.gsb.gov.tr). The ESMP will be available to all stakeholders throughout the life of the project, both on the relevant websites and at the construction sites. In addition, a hard copy of this ESMP has also been made available to stakeholders in the building involved in the project for at least 10 days. Details about the Grievance Mechanism established specifically for the project are presented in Section 4.

ISSUES AND CONCERNS RAISED BY BUILDING USERS

During the briefing meeting held on 30.03.2023, regarding the feasibility studies, building users were informed about the structural reinforcement and energy efficiency renovation process, and they were asked if they had any concerns, opinions, suggestions, and/or questions regarding these potential 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.

Whether students and other building users have any concerns regarding these studies were expressed during the stakeholder engagement meetings held for the ESMP and were recorded in the stakeholder participation meeting, and the opinions/suggestions and concerns of the stakeholders are included in Annex VII. This document has been revised in the light of additional data obtained as a result of the said meeting.

INSTITUTIONAL CAPACITY DEVELOPMENT

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

4 Stakeholder Engagement and Grievance Mechanism (GM)

Stakeholder Engagement is an inclusive process that will be carried out throughout the project lifespan, supporting the establishment of strong, constructive, and responsive working relationships essential for the successful management of environmental and social impacts and risks of the project. The Stakeholder Engagement Meeting, by facilitating early, frequent, and transparent communication throughout the project lifespan, helps manage stakeholder expectations that may impact the management of risks, potential conflicts, and project delays. Therefore, a stakeholder briefing meeting regarding the feasibility studies was organized on 30.03.2023, with a total of 41 participants, consisting of 21 women and 20 men, to provide general information about the reasons, objectives, and stages of the project (Annex VI).

The ESMP specific to this subproject requires all stakeholders to; It will be disclosed on the website of the SREEPB Project (https://kamuguclendirme.csb.gov.tr/) throughout the life of the project in order to have information about how the project process will be carried out in the field and to receive objections and suggestions, if any, and Kocaeli Kandıra Girls' and Boys' Students Dormitory building within the scope of the sub-project. It was disclosed on the dormitory buildings on 30.03.2024. Following the completion of the disclosure process, a Stakeholder Participation Meeting was held again on 17.04.2024, in order to provide information about the technical, social and environmental details of the project by relevant experts, and to answer all questions of the participants about the project and obtain their opinions, before the projects prepared and approved were implemented. The meeting was held with the participation of the contractor, beneficiary institution management and technical units, consultant company employees and relevant experts of the Project Implementation Unit. (33 people, 19 female and 14 male, attended the meeting.) Details about the Stakeholder Engagement Meeting are presented in Annex VII.

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

Grivance Mechanism

The Grievance Mechanism is to provide access to an effective procedure for project-affected or interested parties. Grievances can be an indicator of stakeholder concerns and can escalate if not identified and resolved. Identifying and responding to grievances supports the development of positive relationships between Project staff, local communities and other stakeholders.

The Ministry of Environment, Urbanization and Climate Change has determined many alternative methods for collecting institutional grievances and suggestions.

The Ministry of Environment, Urbanization, and Climate Change PIU has developed a transparent and comprehensive Grievance Mechanism (GM) specific to the SREEPB Project to receive, evaluate, and resolve grievances/opinions/suggestions that may arise during the activities carried out in public buildings within the scope of the SREEPB Project. This mechanism is designed to assist all relevant stakeholders in conveying their grievances/opinions/suggestions about the activities to the relevant individuals and institutions, thereby strengthening stakeholder participation in the project. The mechanism also enables all employees involved in the project (PIU, Consultant, Contractor) to submit their grievances/suggestions/opinions to the Ministry and the World Bank either anonymously or with open identification. The responsibilities of the Contractor, the consulting firm, and PIU are detailed in the Project Stakeholder Engagement Framework (https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894 paydas-katilim-cercevesimayis-final 20210521122305.pdf). Additionally, all parties involved in the project are obliged to

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

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For grievances regarding gender-based violence and sexual exploitation and harassment, it is recommended to use the web-based complaint system provided in Annex III for privacy reasons. In order to ensure confidentiality, an authorized personnel will have access to this web-based grievance system.

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

Table 4-1: CİMER COMMUNICATION CHANNELS

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

https://giris.turkiye.gov.tr

Call Line : Alo 150

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

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

Table 4-2: GM COMMUNICATION CHANNELS

Call Center : ALO 181 Phone : 0312 586 4858

E-mail : yigmkadev@csb.gov.tr

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

Suggestion and grievance boxes installed in buildings

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

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

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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 international occupational health and	 Local construction and environmental inspection authorities and communities will be informed about the planned activities. The public will be informed through stakeholder participation, in the media, and/or in public places through appropriate notifications. All necessary legal permits for construction and/or improvement will be obtained. Regular site inspections will be conducted by the Project Implementation Unit (PIU) and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations, including the regulations regarding building fire protection, and the requirements of World Bank standards. Detailed information and analyses regarding occupational health and safety are included in the Occupational Health and Safety Plan prepared for the same campus. 	Project Implementation Unit (PIU) Consultant

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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 Kandıra Student Dormitory was prepared by the Consultant. All works will be carried out in the field in accordance with the measures determined in the OHS Plan.

Consultant

PIU

Contractor

ENVIRONMENTAL AND SOCIAL MANAGEMENT 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.	
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/dbamuguclendirme/menu/kadev-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.	Müşavir Yüklenici



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.
 The contractor formally acknowledges that all works will be carried out in a safe and disciplined manner, designed to minimize the impact on residents and the environment.
 The contractor will appoint personnel/responsible/experts with relevant certificates and experience for occupational health and safety.
 The contractor will provide a safe working environment for workers and, before construction activities, will supply personal protective equipment (PPE) (such as helmets, masks, safety goggles, safety harnesses, and safety boots as needed) in accordance with international best practices and Turkish regulations.
 An appropriate environment for workers to rest during breaks will be provided by the contractor firm, and this will be arranged and approved in consultation with building managements, taking into account the number of workers and break times.
• Eating places for workers will be established in areas determined by building technical units with the written permission and approval of the Dormitory management.
• Changing areas (lockable) for employees will be provided inside the building with the written permission and approval of the Kandıra Student Dormitory management. The areas in question will be determined by the building technical staff and the use of areas outside these areas is strictly prohibited. Employees should not keep their valuables in these areas, theft that may occur in the said area, etc. The contractor company will inform the employees that the building management bears



no responsibility for the negativities. The issue in question will also be announced with warning signs. • Toilet needs for workers will be addressed through building infrastructures with the written permission and approval of the Kandıra Student Dormitory management. In case the existing infrastructure cannot be used, WC containers with all necessary
hygiene materials will be provided by the contractor. However, • Employees will be able to use the toilets allowed/allocated for them in the building. The contractor will inform their employees about which toilets are allowed/allocated based on the number of employees. Monitoring and control regarding this restriction will be the responsibility of the contractor.
The contractor will educate their employees on the proper use of these toilets in compliance with hygiene rules, and if any misuse is detected, the cleaning responsibility will be on the contractor.
 The contractor will provide all necessary materials for hygiene that employees may need.
The contractor will provide work uniforms that display the project name to easily distinguish the employees.
• Employees are strictly prohibited from engaging in discussions with building technical units and dormitory 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



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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

- 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



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	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.
	Yapım İşlerinin ifası kaynaklı bulaşıcı hastalıkların (HIV virüsü gibi Cinsel Yolla Bulaşan hastalıklar ve enfeksiyonlar dahil) ve bulaşıcı olmayan hastalıkların yayılmasını önleyici tedbirler

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		alacak, bu bağlamda bilhassa hassas ve kırılgan toplum gruplarının farklı oranlarda risk altında olduğu bilinciyle hareket edecektir. Sözleşmeyle bağlantılı geçici veya daimî işgücü hareketliliğinden kaynaklanabilecek bulaşıcı hastalıkların yayılımını önleyici ve etkilerini azaltıcı tedbirleri uygulayacaktır.	
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. To minimize the risk of misuse, leaks, and accidental human exposure, the storage, transportation, and distribution of hazardous materials will be carried out in accordance with safety guidelines. Old windows and doors will be temporarily stored in a secure location designed to prevent unauthorized access. 	Contractor

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

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		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 dormitory). 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	General Information	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency	Management Various waste streams and improper waste management may lead	• 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	to potential adverse environmental and health effects (improper waste management can	• Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations as well as the requirements of the World Bank's ESF.	

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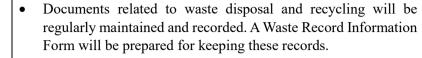
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result in direct and indirect pollution of water and soil and can affect air quality).	 The Waste Management Plan will be prepared by the consultant as specified in Annex 9 of the Environmental and Social Management Framework⁷. Waste collection and 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 company by obtaining permission from the Kandıra Student Dormitory Management Administration and the consultant will be notified of the areas in question. If a protocol is signed between the contractor and the beneficiary institution, the existing waste management system can be used. However, through the protocol, the contractor will be responsible for covering the costs associated with its own waste. 	Contractor
	• The contractor will, if possible, reuse and recycle appropriate and feasible materials (except asbestos).	

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



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

Solar Panels

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

Excavation, and Debris Wastes:

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

Waste Batteries and Accumulators:



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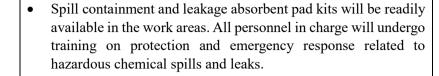
•	Waste	batteries	and a	ccumulato	ors w	ill be	transported	to
	authoriz	ed disp	osal fa	acilities	for	waste	batteries	and
	accumul	lators with	hin the 1	municipal	boun	daries.		

Hazardous Wastes:

- In the temporary storage of hazardous wastes on the project site, the wastes will be kept in secure, leak-proof, and internationally accepted standard containers within the project area. The containers will be labeled as hazardous waste, and information such as the waste code, quantity, content, characteristics, protection conditions, and storage date of the stored substance will be specified on the containers. Hazardous substances can be stored temporarily for a maximum of 6 months. (Temporary storage areas will be determined by the contractor by the regulations, with permission obtained from the University Administration, and these areas will be reported to the consultant.)
- Containers storing hazardous materials and waste oils will be placed in impermeable concrete areas to prevent spillage and leakage into the soil.
- Harmful substances such as paints with toxic content, solvents, or lead-based chemicals will not be used.
- The management of hazardous waste will be carried out in accordance with the Waste Management Regulation.
- Possible hazardous chemical substances and wastes that may occur on the construction site will be sent to licensed disposal facilities using the online program Integrated Environmental Information System (E-ÇBS) of the Ministry of Environment, Urbanization, and Climate Change.



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- 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:

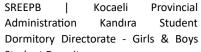
- Domestic wastes will be separated at the source (plastic, glass, paper, etc.) and efforts will be made to recycle materials that can be recycled. Employees will receive training on proper waste separation.
- Waste that cannot be recycled will be collected in sealed sanitary waste bins, and it will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

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		The entire procedure to be applied regarding asbestos is included in Annex 8 of the Environmental and Social Management Framework (https://webdosya.csb.gov.tr/db/kamuguclatma/menu/kadev-p175894_csyc_final100521mayis_20210510070430.pdf). The Contractor will act by the content in question.	
		If asbestos material needs to be temporarily stored, the waste should be kept in secure containers and properly labeled. Security measures will be taken to prevent unauthorized removal from the Dormitory management.	
		• Removed asbestos will not be reused and will be disposed of in accordance with national regulations and sent to licensed facilities. Necessary documents for transportation and disposal of the material will be kept at the construction site and will be presented to the MoEUCC and the World Bank if requested.	
		Paints containing toxic components, solvents, or lead-based paints will not be used.	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency	e) Pollution Prevention Demolition and construction activities	 Site-Specific Pollution Prevention Plans to be prepared by the Contractor will be reviewed 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
Improvement in Public Buildings	can lead to pollution on construction sites	 Air quality related to dust generation is addressed in the "g. Air Quality/Emission" section of this document. Hazardous substances will be secured in the designated storage area to prevent spillage and tipping. 	Contractor



Student Dormitory		
	Containers for partially used chemical materials will have lids and will be tightly closed when not in use.	
	• Disposal of residual (leftover) concrete from concrete mixers will not be allowed in the construction site, its surroundings, or access roads to the construction sites. Concrete mixer drivers will be trained on this matter.	
	• In case of any hazardous substance or hazardous waste leakage, leakage prevention methods will be applied to limit the exposure area.	
	• Leak kits will be placed at appropriate points on construction sites.	

- In the event of any leakage, workers who will respond to such incidents will be identified and trained in emergency response to leaks.
- Training records will be maintained at construction sites.

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

f) Noise

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

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

Contractor



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

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Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	g) Air Quality/Emission:	 Debris will be kept in a controlled area and water will be sprayed to reduce debris dust. (Water will be supplied from the infrastructure of the student dormitory area. In case of long-term water outage or if permission cannot be obtained from the Administration, water tanker may be used.) 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 within the building. Dust generated during scraping and stripping operations will be suppressed by continuous water spraying. Dust generated during excavation will be suppressed by continuous water spraying and/or by installing dust curtain enclosures at the construction site. In case of debris generation, a debris chute will be used after the first floor. The surrounding environment (sidewalks, roads) will be cleared of debris to minimize dust. Open burning of construction materials/waste substances will not be allowed at the construction site. Construction vehicles at the construction site will not be idled for an excessive period. When material needs to be transported, truck tops will be covered. The speed limit for such vehicles within the student dormitory site is set at 20 km/h. 	Consultant Contractor
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		All vehicles to be used will have exhaust emission permits, and regular maintenance will be conducted on all vehicles or monitored for maintenance.	
		Efforts will be made to minimize the storage or disposal of waste generated on the construction site.	
	h) Water QualityUncontrolled disposal of	• Since the campus is far away from water sources such as seas and lakes, it is not expected to have a negative impact on surface waters.	
	wastewater/waste generated at the construction site can	Construction vehicles and machinery will only be washed in areas where surface runoff will not contaminate natural surface water bodies.	
Renovation and Retrofitting Works for Seismic Resilience and	affect the coastline.	The disciplined implementation of waste management mentioned in previous sections is necessary.	Consultant
Energy Efficiency Improvement in Public Buildings		All hazardous chemicals (including contaminated waste) will be stored in temporary storage areas that meet leakproof requirements.	Contractor
	i) Soil Quality The mixing of	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.	
	hazardous substances and waste 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.	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency	j) Required Resources	• Contractors will obtain the necessary permits from building authorities to use water from the public network for construction activities. In case of any issues with obtaining permits, water will be brought to the construction sites using tankers.	Contractor

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Improvement in Public Buildings		Concrete will be sourced from locally licensed ready-mix concrete facilities.	
		• Permission will be sought from beneficiaries to use electricity for construction activities. In case permission cannot be obtained, electricity will be provided through generators procured by the Contractor. Records of electricity, fuel, and water consumption for construction activities, including generators, will be kept on the construction sites.	
		• Regular on-site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws, regulations, and the requirements of the World Bank standards.	PIU Consultant
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	k)Community Health and Safety/Traffic and Pedestrian Safety	 The site inspections for every two months will be carried out by the PIU and for daily by the Consultant to ensure and monitor that all construction activities are carried out following national laws and regulations, the requirements of the World Bank standards and the Occupational Health and Safety Plan prepared for the activity. PIU will review and approve the site-specific Community Safety and Traffic Management Plan prepared in accordance with the Occupational Health and Safety Plan. 	Consultant Contractor

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 The Contractor will develop a Traffic Action Plan, taking into account the needs of people with disabilities, as prepared by the Consultant. In accordance with national regulations and the World Bank ESF, the Contractor will ensure the proper securing of the construction site and the regulation of construction-related traffic. Signboards, warning signs, barriers, and traffic guidance will be clearly visible at the construction site, and the public will be alerted to all possible dangers. Traffic management systems and personnel training will be provided, especially for access to the construction site and heavy traffic near the construction site. Safe crossings and passages for pedestrians will be provided at intersections with construction traffic. 	
 Adjustments to working hours will be made based on local traffic patterns, such as avoiding heavy transport activities during peak hours or times when livestock is being transported. 	
 Construction sites will be surrounded by health and safety signs to prevent potential accidents. If there will be a disruption of electricity, water, or natural gas supply due to construction activities in the short or long term, advance notice will be provided to the building technical units, and approval will be sought. Construction sites will be separated and secured with warning/caution tapes to ensure safety. All types of vehicles operating during construction will be required to adhere to the specified speed limit. 	Consultant Contractor



• The surroundings and surroundings of the project site will be arranged with traffic signs and warning signs. The Traffic Action Plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the security-related measures to be taken will be specified 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
• 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).	Contractor
• Pedestrian paths and vehicle thoroughfares within the site will be separated from each other. These paths will be incorporated into the traffic plan.	
• Activities that will affect regional traffic will be planned considering peak traffic hours as much as possible. All drivers involved in the project will be informed about road safety, speed limits, traffic rules to be followed during the project, and conditions to be observed.	
The weights of all vehicles used in the project will not exceed the limits specified in the relevant legislation.	

		 In the event of hazardous chemicals or waste storage on the site, the transfer of these wastes will be carried out by licensed carriers in a manner that does not pose a threat to public health. Special loads will use routes prepared in agreement with the relevant authorities. The specified routes will be programmed to prevent traffic congestion on the roads and will be published in advance to prevent possible inconvenience. All traffic organization will be discussed and planned in coordination with the relevant authorities. 	
Operational phase impacts and risks	a) Waste Management Improper waste management with various waste streams can lead to possible adverse environmental and health effects (inadequate waste management can result in direct and indirect pollution in water and soil and can affect air quality).	Waste streams will be collected separately, stored, and disposed of through licensed companies in accordance with national regulatory requirements.	Relevant beneficiary institution
Operational phase impacts and risks	b) OHS risks Maintenance and repair activities related to the proper functioning of the building can pose occupational health and safety (OHS) risks for workers.	 Relevant OHS risks will be reduced through the provisions specified in national legislation. Regular preventive measures and maintenance precautions for the proper functioning of the building (regular inspections and maintenance for any leaks on the roof, windows, doors, etc.). Keeping records related to the Main Design Project and relevant project documents for easy maintenance and renovation of any part of the building. 	Relevant beneficiary institution

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		Grievances/opinion/suggestions related to construction	
		activities will be collected at the site level by the responsible employee of the Construction Contractor through the forms provided in Annex III and Annex IV. These grievances will be recorded and submitted to the administration. Grievances will be closed using the Grievance Closure Form provided in Annex V. • The site supervisor of the Contractor will be provided with training on the operation of the Grievances Mechanism by the	
Throughout the project lifecycle	Stakeholder Feedback (Suggestion, Grievance, Opinion)	 Social Specialist of the Consultant firm. Corrective actions will be taken within 15 calendar days for grievances/opinions/suggestions collected under the project, and if the grievance period exceeds 15 days (the grievance period will not exceed 30 calendar days), this matter should be agreed upon between the Contractor/PIU and the complainant. At the end of the process, the applicant will be informed that the request has been closed. 	PIU Consultant Contractor
		• In cases of gender-based violence, sexual abuse, and harassment, proceedings will be conducted in accordance with the principle of confidentiality, taking into account the possibility of retaliation.	
		• In the event of encountering a sexual abuse crime, legal action (reporting the situation to law enforcement authorities, referral to the relevant public institution) will be initiated immediately with the consent and knowledge of the survivor of this crime. In the event of such a situation, the PIU Social Specialist will be informed on the same day.	



• The Contractor will follow the GM Procedure of the SREEPB Project in all activities related to GM.	
• All personnel working within the SREEPB Project (PIU, Consultant Firm, Contractors) can report their grievances/opinions/suggestions to the Administration and/or the World Bank following the process in GM outlined in the Labour Management Procedure for SREEPB Project.	
• The Contractor will announce the contact information specified in this report for the collection of suggestions and grievances using information boards allocated to the outside and inside of the buildings (at least one for each floor).	
• The principles for receiving feedback are explained under the "4. Stakeholder Engagement and Grievance Mechanisms" title of this document.	

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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 St	Renovation and Strengthening Works Site Preparation Activities					
Community Health and Safety Management and Implemented Protective Measures	Around the project site	Visual Inspections Site Inspection Availability and Implementation of Active Community 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 and Implementation of OHS Plan	Every working day throughout the project activities	Minimizing occupational health and safety risks for workers, especially those involved in removing asbestos-containing roof covers, through the provision of protective equipment and clothing. Compliance with the Occupational Health and Safety Law, relevant regulations, notifications, directives, and other regulations.	ContractorConsultant
To avoid and minimize safety and health risks for individuals affected by the project	In the building and at the project site	Visual Inspections	At the beginning of the renovation/strengthe ning work and continuously every working day	Preventing Post Activation Potential (PAP) injury due to inhalation of asbestos fibers or other construction dust.	ContractorConsultant

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Renewal/Strength ening works, especially the Site Inspection Review of document records Site Inspection Review of document records Every day (In case asbestos is detected)		
removal time of existing parts containing asbestos Visual Inspections Visual Inspections Visual Inspections Vork	avoid environmental, th, and safety risks appliance with the ulation on Health and ety Measures in Asbestos	ContractorConsultantAsbestos RemovalSpecialist

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

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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
Stakeholder engagement	Kocaeli Special Provincial Administration Kandıra Student Dormitory Directorate Girls' and Boys' Dormitories	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

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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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ENVIRONMENTAL AND SOCIAL MANAGEMENT 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
		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	Kandıra Student Dormitory Directorate
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	Kandıra Student Dormitory Directorate

Release Date: 18.03.2024

7 Duties and Responsibilities

Table 7-1: Task Distribution List

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

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

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•	Employing	at	least	one	full-time	Environment,	one	Social	and	one	OHS
	specialists,										

- Appointing an experienced Environmental and OHS Officer for the comprehensive management and monitoring of the site-specific ESMP and OHS Plan.
- Implementing laws, regulations, and rules related to ESMP and OHS Plan attached to the tender documents as defined by the Consultant.
- Implementing relevant laws and regulations mentioned in the tender documents appropriately.
- Updating ESMP and OHS Plan content in coordination with the Consultant during the implementation of ESMPs and OHS Plan in the field as necessary.
- Preparation of the OHS Plan for the activities to be carried out, taking into account the OHS Plan prepared by the Consultant, Monitoring the field activities defined in the ESMPs prepared specifically for the project at regular intervals (daily, monthly, etc.),
- Preparation of the Community Safety and Traffic Management Plan
- Operating the Grievance Mechanism in compliance with GM Procedure established by the Ministry.
- Examination of the ESMP prepared by the Consultant, commitment to implement it or preparation of the Contractor ESMP by the contractor and relevant sub-management plans of the ESMP (e.g. Waste Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Occupational Health and Safety plan, etc.) and preparation of work-specific construction/application methods,
- Preparing the Random Finding Procedure if deemed necessary.
- Preparing ESMP progress reports for MoEUCC.'s review.
- Applying to the authorized energy distribution company and local gas distribution company depending on the works to be carried out.
- Establishing the Employee Grievance Mechanism detailed in the Labor Management Procedure before any construction work starts and ensuring its transparent operation.
- Preparing the Labour Management Plan specific to the project considering the SREEPB Labor Management Plan (LMP)⁸.

CONTRACTOR

-

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8 Reporting

The details regarding the reporting requirements of the project are presented within the Environmental and Social Management Framework disclosed on the website of the SREEPB Project (https://kamuguclendirme.csb.gov.tr). A summary of this information is provided in Table 8.1.

Table 8-1: Reporting Process Requirement List

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

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



SREEPB | Kocaeli Provincial Administration Kandıra Student Dormitory Directorate - Girls & Boys Student Dormitory

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN



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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		ESS1 aims to achieve environmental and social outcomes consistent with Environmental and Social Standards (ESS) by defining the responsibilities for assessing, managing, and monitoring environmental and social risks and impacts associated with a project supported by the World Bank through Investment Project Financing at every stage.
	Assessment and Management of Environmental and Social Risks and Impacts	Environmental and social assessments will be conducted based on current information/data to define and describe the project and all related aspects and identify the nature of risks, impacts, and characteristics of mitigation measures.
		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. It assessment will consider threats to biological diversity such as habitat loss, degrada and fragmentation, invasive alien species, overuse, hydrological changes, nutrological, pollution, and incidental capture, as well as the anticipated impacts of clinic change. It will determine the importance of biodiversity or habitats based on their glo regional, or national vulnerabilities and irreplaceability. It will also consider differ values placed on biodiversity and habitats by stakeholders affected by the project 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 / ÖNERİ FORMU
T C Kimlik Numaranız	
Adınız	
Soyadınız	
JI *	Seçiniz
Bina Adı *	
Şikayetiniz *	
Varsa Engel Durumunuz	Seçiniz
Geri Dönüş Tercihiniz	Seçiniz
E-posta	
Telefon	











Annex IV: Suggestion & Grievance Form (Printed)

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

REPUBLIC OF TURKEY MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE	SEIS	MIC RESILIENCE AI IN PUBLIC BUIL (SREEPR		
			IGGESTION FORM	
		BOGAZICI	UNIVERSITY	
ID Number				
Name				
Surname				
Province	İstanbul			
Choose the building:	Indoor Swimming Pool	New Geophysics Building	☐ Indoor Sports Hall	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	Thysically disabled 🔲 O	other None
For return:	E-mail	Phone I	Oon t want	_
E-mail				-
Phone				











Annex V Grievance Closeout Form

The Grievance Closeout Form is presented to your attention below.

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











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

Project Code	WB/CS-DESSUP-01	Building Name	KOCAELİ KANDIRA KYK DORMITORY BUILDING
Date	30.03.2023	Start End Time	15:00 15:56

ANNEX VI-Table 1 MEETING AGENDA			
START TIME	END TIME	ACTIVITY	
15:00	15:10	Meeting kick-off speech	
15:10	15:15	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 15:15, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format. 	
15:15	15:20	Information was given about the SREEPB project and its objectives.	
		Image 1 PRESENTATION FILE SHARED SECTIONS_01	







ve Enerji Verimliliği Projesi

		RAMU BIMALARINDA DEPREM DAVAMAN E REER REPREMA LIST PROLES Financiana Dilaya Bakara satisfarana sati
		PROJE HEDEFLERI Bu projek terna binalonado, afet d'arenciris malsimum seviyeye çikarma ve enerji tasarırufunu jışleylinmeyə oddirlarmıştır. Bu gerçevede binalarır, 1 Napsed olarak giçlendelilmesi, 1 Enerji yaramalarının artılmas, 2 Nomende yenilendelile si sadidüldelilir oneşi üratmı, 3 Enerji yaramalarının artılmas, 4 Enerji yaramalarının artılmas, 5 Ingili yaramalarının indelilir kili yapsa ili birilde (Bina enerji taligi ve kontrol sistemi, bina otomasyon sistemi vib, lurulması ve erkinliğinin səğlarmas, 6 Pineşi koparamında, paydaşlar seviyesinde farkındalik sağlarması, 7 Ingili kapamında, paydaşlar seviyesinde farkındalik sağlarması, 8 Ingili kapamında, paydaşlar seviyesinde farkındalik sağlarması, 9 Ingili kapamında, paydaşlar seviyesinde farkındalik sağlarması, 9 Ingili kapamında, paydaşlar seviyesinde farkındalik sağlarması, 9 Ingili kapamında, paydaşlar seviyesinde farkındalik sağlarması, 9 Ingili kapamında, paydaşlar seviyesinde farkındalik sağlarması, 9 Ingili kapamında, paydaşlar seviyesinde farkındalik sağlarması, 9 Ingili kapamında şaydaşlarınında saydaş
15:20	15:24	 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, complaints, etc.) will be collected, examined and answered. The importance of stakeholder engagement was mentioned. It was stated that the details of the communication will be announced at the end of the presentation.









		Image 2 PRESENTATION FILE SHARED SECTIONS_02
		GENEL AŞAMALAR Öncelikle bindam mevcut durundur, yerinde yapılan teknik incelemeler neticesinde belirierecektir. (Aspaci fabrilite, energi verindiği terkikler) - Bina yapıla olarak kramtae bilg almacık, murune ileti soruşlan ve yerinde yapılan gademlar rapadranacıktır. - Bina energi performateri, direk ve doksyl etilelyen sistem, yapı ve cihadar gödenecek, teste tabi tutulacık, elde elden veriter ve bu verifer şiğindi yapılan hesaplamalar rapadranacıktır. - Bina energi tuklertir verileri; energi türlerinin etkileyen değişleriler diklate olnarak belirilerinen erleran değişleriler ünserirden kıyadanacıktı, genel energi performaras seriyeleri tanıntanacıktır.
		GENEL AŞAMALAR Projo à hola doklimondorn ilə birilde; - Germet Bayani'd ilmetim Palmanı (Progenia germetel ve sosyal etidieri belirlenecek, riskler ve niklerin bertrorulri, ira heyata gayali vitenim Palmanı (Progenia germetel ve sosyal etidieri belirlenecek, riskler ve niklerin bertrorulri, ira heyata gayali vitenim Palmanı (Progenia germetel ve sosyal etidieri belirlenecek, ve bertrarulri, ira heyata gayali vitenim Palmanı (Progenia germetel ve sosyal etidieri belirlenecek, ve bertrarulri, ira heratorul perilene yazılı ve güvenliği nikleri belirlenecek ve bertrarulri ira delmanı germeter ördemler tranmlaracıları) - Prografi Kalmanı Palmanı (Progenia germete ve doğunları ve siz konunu poydayların proje ve prog süzeyleri hekkende nik ve doğunları delmecek ve doğunları belirlene ve yalkonisi ilmenin tebiğ gollan pariran tebiğ gollan pariran tranmını (çormal, sosyal perilene ve yalkonisi ilmenin ve yalkonisi ilmenin ve yalkonisi ilmenin tebiğ gollan pariran tranmını (çormal, sosyal perilene ve yalkonisi ilmenin tebiğ gollan pariran tranmını (çormal, sosyal perilene ve yalkonisi ilmenin ve yalkonisi ilmenin ve yalkonisi ilmenin ve yalkonisi ilmenin tebiğ gollan pariran tranmının (çormal, sosyal perilene ve yalkonisi ilmenin ve yal
15:24	15:31	 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









YAPISAL FIZIBILITE

ZEMIN ETÜDÜ;

2023





ATLASCOT TITLE



ATLASCON' HILL

YAPISAL FIZIBILITE

ZEMIN ETÜDÜ;

Bu kapsamda gerçekleştirilecek test & numune sayıları aşağıdadır;

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	11	Sergikon Spor Saconto Kandisa Čigi	end Yords Kocaeli	Eardra	1	3653	5	2	30	- 2









Zomin ötüdüne lişkin risk analizi gerçokloştirilmiş, iş sağlığı ve güvenliği planları hazırlarımış ve çalışanları aktanlımıştır. Poydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konuları şurlardır.

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- Kularının onenir.

 Sondaj işlemi esnasında gürültü anlık olarak 95dB seviyəlerine ulaşabilmektedir. Bu nedenle gerredeki bireylerin konsantrasyonlarının olumsuz yanda etkilenmesi muhtemeldir.



İŞ SAĞLIĞI GÜVENLIĞI – ÇALIŞANLAR Çalşırıların tamamı qaşığıda belirlilen ve kerdilerine teslim edilen kişsel karuyucu danarımlan deşipiri şikilde kullarımakla yükanlıdırı. Soz korusu danarımları uygun şekilde taşmayarı y



- Kulak Tikaa: TS EN 352-2
 Karuyucu Gözlük TS EN ISO 16321-3
- Genel Amagli İş Eldiveni TS EN ISO 21420
- İş Ayakkabısı TS EN ISO 20347
- Yanım Yüz Maskesi TS EN 140 Paraşut Tipi Emniyet Kemen - TS EN 361 (Sadece Sor



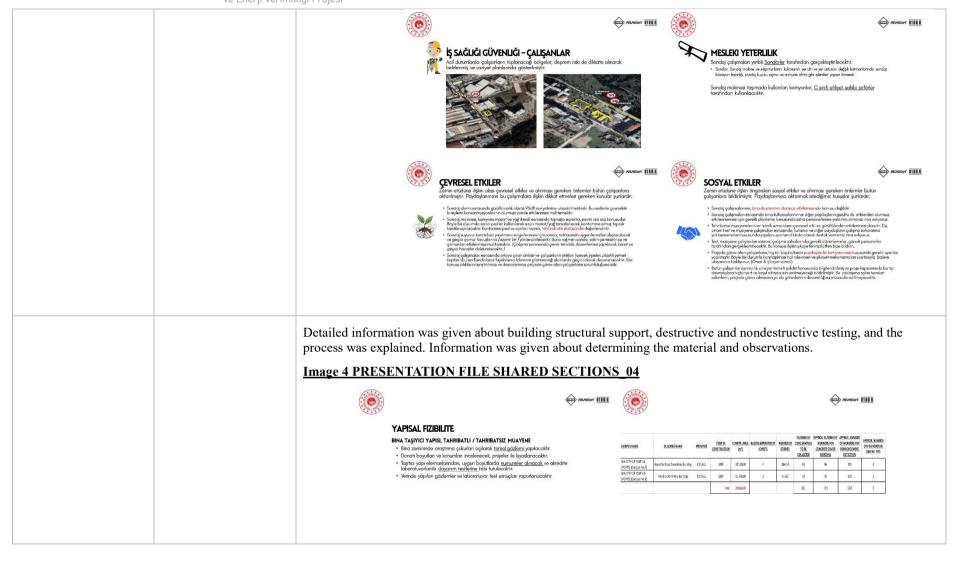
Çalışma sonrasında araştırma çukurları ve sondaj delikleri kapatılacaktır. Bu suretle takılma, düşm riakleri hertarıf edilmiş olacaktır.







2023









		YAPISAL FIZIBILITE BINA TAŞIYKI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE Bina zemin/ hemel kontrolul işin; temel kolmiğinin bir miktor altına inlecek di yablaşil (ü.Smr.) yazıy olan) araştıma çukuru aylır. Arşilan gular gönel olar ve galderinden gotest mahyerite resimiler çakilir. Araştıma sorrasında çukur biçinde kapartir.	erinlikte BINA TAŞI dıçıları çukur Taşıyıcı vye uygun • Denir ta • Beranye	AL FIZIBILITE MICY VARIS TAHRIBATI / TAHRIBATSIZ MUAYENE 19 göddenhör va nurruna felgelit; 19 delharin i kila nikayevelterorilarina kjarke yar alan dorasilaran (daran); tonunitar, dukilalari 10 harintarina godinir. 10 delharina yaran dianoca kilarina kyaratarina iliyake yar alan dorasilaran (daran); tonunitar, dukilalari 10 delharina nurruna dianoca kilarina kyaratarina 11 delharina nurruna dianoca kilarina kyaratarina 12 delharina nurruna dianoca kilarina kyaratarina 13 delharina nurruna dianoca kilarina kyaratarina dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina dianoca kilarina kuntura dianoca kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kilarina kuntura dianoca kuntura dianoca kuntura dianoca kuntura dianoca kilarina kuntura dianoca kuntura
15:31	14 : 35	A statement was made about Information was given about Explained how to take samp Image 5 PRESENTATION FILE S YAPISAL FIZIBILITE BINA TAŞTICI YAPIS TAHRIBATI / TAHRIBAT Don'th we often certif Don'the Been (certificate) deligned (aplanticate). (Indicate chargement learning certificate (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate companies (aplanticate). (Indicate). (Indicate companies (aplanticate). (Indic	ut the reinforcement and ples. SHARED SECTIONS SHARED SECTIONS STATE MAYENE Beforn bussness kans; gold by çalsın bir gold dağıldırı. Çalma bulqasındaki (şubukar perlegirilir.) armını bouna qarmını bouna qarmını bouna qarmını sayatı	•
15:35	15:38		mple to be taken for the	plied to the samples taken. core test will be taken from the structural support. It has will be measured by compressive strength tests.







		Image 6 PRESENTATION FILE SHARED SECTIONS_06
		YAPISAL FIZIBILITE **PLACENT HITT
		YAPISAL FIZIBILITE BINA TAŞIYICI YAPISI TAHRIBATSIZ MUAYENE
		BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE Donati numureleri: quedre laborativarianda çeleme dayanım testlerine tabi tutulur, kopma kuvvelfeni belirleri ve raporların. **Nator: Sultun olarak da biliren, taşıraı saternde düseyi yapı elemanlarına verilen sındır. İrgaladı da ya iç alkilerdin oluşan kuvvelfeni (moment, kasma kuvvelfi vib.) temellere, dolaya ile zemine altarındır. **Nitifs: Yoplacida dayene ve kullanım alanı yüklerini düyey tayyıcılarıa (kolon) oktaran yapı elemanlar. **Nitifs: Yoplacida dayene ve kullanım alanı yüklerini düyey tayyıcılarıa (kolon) oktaran yapı elemanlar.
		TAPISAL FIZIBILITE BINA TAŞIYICI YAPISI TAHRIBATSI / TAHRIBATSIZ MUAYENE Nurmuselerin çilarilmoşi: Taypu baren kermila çını kolori doğin Dom çopradı Dori deriliğirde, silmilir kurumuseleri çilarilması: Erotor möskesi çulturir kadire- iygan derile dedirenek veğleri yeçilir müstürün sültürün. Erotor möskesi çulturir kadire- iygan derile darasek veğleri yeçilir müstürün sültürün. Erotor möskesi çildiriri kadire- iygan derile darasek veğleri yeçiliri müstürün sültürün. Erotor möskesi çirirden jürün çüşünliğirde darasek veğleri yeçiliri müstürün sültürün müstürün biliri yüzeyinde ildiren türün biliri yüzeyinde ilçirinde ildiren türün müstürün bilirin yüzeyinde ilçirinde ildiren türün müstürün bilirin yüzeyinde ilçirinde ildiren türün müstürün bilirin yüzeyinde ilçirinde ildiren türün sültürü
15:38	15:40	It was stated that the samples were taken from places that were not exposed to force, the parts damaged by column stripping and the places where concrete samples were taken will be filled with high-strength filling mortars and repaired.
		Image 7 PRESENTATION FILE SHARED SECTIONS_07







ve Enerji Verimliliği Projesi

		YAPISAL FIZIBILITE TAHRIBATLI TEST SONRASI ONARIH Proje kapasırında gerçekleştirline tarbirləti muayenelerin, temin edilen nummelerin, binaya yapısalı hasar vermesi söz konusu değildir: Demir nummeleri kuver etilinda kalmoyan filiz uçlarından vib. noktolardan almındırdadır. Kolon syımrası sonucu tarbir, olan kısımlar ve berin nummesi alınan bölümler yülsek reukrovemelik dolgu hargılan kullanlarak deldurulacok, oranlacelar.
15:40	15:45	General explanations regarding occupational health and safety plans were made within this framework;
		 Matters taken into account within the framework of OHS plans are explained item by item. It was underlined that only authorized persons can access the areas where the renovation works will be carried out, therefore, the access of the building users will be restricted in some periods. It was reminded that work plans should be evaluated within this framework. General OHS rules and precautions to be taken especially for environmental safety were mentioned. It was underlined that it should not be touched while working with the devices and that the technical personnel should show the plugs fed from the residual current circuit lines for the connection of electrical devices. The importance of professional competence was mentioned. For example; It has been stated that Civil Engineers and Construction Technicians will take part in construction equipment tests under their supervision. The environmental impacts of all works and the precautions to be taken are explained to all employees and the issues that stakeholders should pay attention to are explained. It was stated that the wastes will be cleaned by technical experts and employees and will be separated into the regions indicated by the Administration. Projected social impacts related to indoor observation, test and inspection activities are stated in the OHS plans. It has been underlined again that the samples to be taken will not adversely affect the building's structural aspects. Image 8 PRESENTATION FILE SHARED SECTIONS_08







		S SAĞLIĞI GÜVENLĞI Sire işi yapındı ağıları, ive ve nuşuyuz ağılarınının fişir isi aratıla gerekaşıların, a yaşılarının buş yapındı ağılarının güren bardının yaşılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının buş yapındı yağılarının yağ	
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15:45	15:50	 It has been stated that the OHS rules that the contractor companies must comply with and the environmental and social effects/measures are explained in the OHS plan prepared specificand communicated to the relevant employees. In addition to the structural feasibility, it was stated that studies will be carried out on the end of the buildings and various controls and examinations will be carried out in order to under situation of the building before these. Image 9 PRESENTATION FILE SHARED SECTIONS_09 	ally for this project nergy efficiency
		Widered finalem uponies grades is stillight to glored glored grades by a glored glored proper of the best finalem uponies for grades and stilling registers and still registers and stilling registers and stilling registers and stilling registers and sti	Callerin Meller Include National Production College Include National Section College Include College On College Outstanding College On College Outstanding College On College Include College On College Include College On College Include College On College Include College On College







2023

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		Sy SACLICI CIVENUCI We make preference benicheror layer side cannot generally reference to general reference to g
15 : 50	15 : 52	Clarifications were made regarding stakeholder engagement, receiving and evaluating suggestions and complaints, and informing the relevant parties about this process (decisions taken regarding suggestions and complaints, additional measures implemented, etc.)
		 It was explained that suggestions and complaints can be received via digital form, telephone, e-mail addresses and QR codes. It was stated that suggestions and complaints 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 complaint boxes to be established in the building, and the control periods. It was announced that the complaints 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 complaint resolution mechanism.







		Image 10 PRESENTATION FILE SHARED SECTIONS_10					
		ONERI ŞIKAYET SISTEMI Oner ve sişteyeterindir, cerigir on landı naral sicirce cinnen cinnen Cone iye in dağlık cidi, bu bir birtini. Deve el esi indene uyun Cone iye in dağlık cidi, bu birtini. Deve el esi indene uyun Cone iye in dağlık cidi, bu birtini. Deve el esi indene uyun Cone iye in dağlık cidi, bu birtini. Deve el esi indene uyun Cone iye in dağlık cidi, bu birtini. Deve el esi indene uyun Cone iye indene iye iye indene iye iye indene iye iyelini. Deve el esi indene uyun Cone iye indene iye iyelin indene iyelin indene. Deve el esi indene uyun Cone iyelin indene iyelin indene iyelin indene iyelin indene Cone iyelin indene iyelin indene iyelin indene Cone iyelin indene iyelin indene iyelin indene Cone iyelin indene iyelin indene iyelin indene Cone iyelin indene iyelin indene iyelin indene Cone iyelin indene iyelin indene iyelin indene Cone iyelin indene iyelin indene iyelin indene Cone iyelin indene iyelin indene iyelin indene iyelin indene Cone iyelin inde					
15:52	15:56	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

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

ANNEX VI/Table 2 QUESTION & ANSWER LIST

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER
01	-	-	-	-









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: TOPLANTI FOTOĞRAFLARI























Participant List and Contact Information

Annex VI/Table 4 Participant List and Contact Information

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

CONSULTANCY COMPANY PARTICIPANTS

- 1) Fulya Gülbahar (Social Expert)
- 2) Hüseyin Tavaslıoğlu (Energy Systems Engineer)

PROJECT IMPLEMENTATION UNIT PARTICIPANTS

-) 1) Ozan Demirel (Project Implementation Unit Construction Specialist)
- 2) Ganime Güzel (Environmental Expert)
- 3) Semahat Dicle Maybek (Social Expert)
- 4) Tülün Yıldırım (OHS Specialist)
- 5) Zeynep Ünsal (MSc Civil Engineer)
- 6) Giray Şamil Yıldırım (MSc Civil Engineer

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







2023



Stakeholder Engagement Meeting Presentation









KAMU BİNALARINDA DEPREM Dayanımı 8 enerji verimliliği PROJESÍ

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





https://kamuguclendirme.csb.gov.tr

PROJE HEDEFLERI

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

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

hedeflenmiştir.





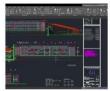








Belirlenen, mutabik kalınan önlemlere ilişkin **proje & ihale dokümanlarının** hazırlanacaktır!













GENEL AŞAMALAR

Proje & ihale dokümanları ile birlikte;

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

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

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

YAPISAL FIZIBILITE

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













YAPISAL FIZIBILITE

ATLASCON' HILL







ZEMIN ETÜDÜ-

Bu kapsamda gerçekleştirilecek test & numune sayıları aşağıdadır;

Kampüs No	No	Kurum	tina Adı	ı	liçe	Yapı Azledi	Toplam Oturum Alam (m²)	Sondaj		Tahmini Sondaj Derinliĝi (m)	Araştırma Çukuru Adedi
	10	Gencilikve Spor Bi-k-nilĝi	Dazonfor Bilgo Oğrend Yazdu	Koczeli	Kamatisci	1	2200	4	2	30	2
	11	Gencilk ve Spor Bokoniği	Kandira Öğrenci Yurcu	Koczeli	Kondra	1	3530	5	2	30	2

İS SAĞLIĞI GÜVENLIĞI

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

- Kizakli sondaj makinesi, komyon morifetti ile sondaj noktalanna ilettileoektir. Söz konusu kamyonlann kullarim, manevralan esnosanda kiinsenin zarar görmemesi igin zarun haller dişinda 20m' den fazla yaktagi Imanus gerelmektedir Komyon ve işi ma kinelerinin azarın kızısının 20 km' dir.
- Sandaj kulesinin kaldırılması esnasında, kule etki alanı içinde bina elemanlarının, ağaç dallarını vb. olmadığından emin olunmalıdır.
- umladığındırın katırının talarındı.

 Sondaj işlemi yapılan alana 20m'den fazla yaklaşılmaması gerekmektedir. Bunun tesisi için çalışma sohası ermiyet şeridi ile ayrılacaktır.
- Sondaj işlemi esnasında gevredeki teknik kadroların tazdan etkilenmemesi için yarım yüz maskesi kullarımı önerilir.
- Sandaj işlemi esnaunda gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle gevredeki bireylerin konsantrasyorlarının alurıssız yönde efkilenmesi muhtemeldir.
- Çalışma sonrasında araştırma çukurları ve sondaj delikleri kapatılacaktır. Bu suretle takılma, düşme riskleri bertaraf edilmiş olacaktır.



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



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







ATLASCORT HILL











Acil durumlarda çalışanların toplanacağı bölgeler, deprem riski de dikkate alınarak







MESLEKI YETERLILIK

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

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



CEVRESEL ETKILER

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



- Sandaj işlemi esnasında gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bireylerin konsantrasyonlarını olumsuz yanda erkilenmesi muhtemeldir.
- birejenin karauntasponlarının durmuz yarda etilelerinesi muhamideli. Sordiği müllerini karauntasponlarının durmuz yarda etilelerinesi muhamideli. Sordiği müllerini karava
- Sondaj galgmalan esnasında artaya gıkan an klar ve galşanların atklan (İçecek şiyeler, plastik yemek kapları k.), ismifandinirak faydalanısı idarenin göstereceği alanlarda geçic olarak depolanoackiri. Söx konusu ankların ayrıstımlırasıva depolarınsın seygede görev alan galşanların sarumluluğundadır.



SOSYAL ETKILER

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

- Sandaj galişmalarınır, bina dayanımını olumsuz etkilemesi soz konusu değildir.
- Sandaj çalışmalan esnasında bina kullanıcılarının ve diğer paydaşların gürültü vib. etkilerden olumsuz etkilenmemesi için gerekli planlama konusunda saha personellerine yardımcı olmanızı rica ediyoruz.
- etraemenene ign grieser y steinnic variumient curumient van periorienser y steinnic variumient curumient.

 "Inhiribbitz manyswelein va teinit variumient periorient elle til ve günüfliaderien attisiennie cladart. Die darbin Hest vermusyene gladyrmoin en exasenda, fullunari ve dige population regions and arbaicium yaktispramatah missen darbin elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen elle vermusyen vermusyen elle vermusyen vermusyen elle vermusyen
 - Projede görev alan çalışanların, hiç bir koşul ahnda paydaşlar ile tartışmaması hususunda gerekli uyanlar yapılmıştır. Böyle bir durumla karşisiçişilması halinde öneri ve şikayet mekanızmaları yaştasıyla bizlere ulaşmamızı beklyanızı (Önen 8 şikayet susun)
 - Bütün galişanlar ayırımcılik, cirisiyet temelli şiddet konusunda bilgilendirilmiş ve proje kapsamında bu tip dovranişlara hiçbir şart ve koşul altında zirin verilmeyeceği bildirilmiştir. Bu yeklaşıma aylan hareket edenlerin, projede görev almasına ye da gövelerinin devamlığılar anüsode edilmeyecektir.











YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI, TAHRIBATLI / TAHRIBATSIZ MUAYENE

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

AMPLIS NAME	SULCIVIS NAME	PROVINCE	YEAR OF CONSTRUCTION	CONSTRUMENT	BLOCKS SEPERATED BY JOINSTS	NUMBER OF STORIES	COLLECTED	APPROX. NUMBER OF MEMBERS FOR CONCRETE COVER REMOVAL	AFPROX. NUMBER OF MEMBERS FOR REINFORCEMENT DETECTION	OF FOUNDATION OBSERV. PITS
IMSTRY OF YOUTH E. FORTS) [Campus No.5]	Gezanter Bige Cormitory Building	KOCAEJ	2003	13.520,00	ı	29-2-5	68	96	529	3
HINSTRY OF YOUTH & FORTS) (Campus Ross)	Sandra Dormitory Building	KOOKEJ	2007	11340,00	3	984	33	15	200	2
			Total	34360.00			101	141	520	









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

2023











YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Donati ve etriye nedir?

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

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ATLASCOT HILL







YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

BINA TASIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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

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

Numunelerin cıkarılması:

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











YAPISAL FIZIBILITE

Taşıyıcı yapı gözlemleri ve numune tespiti;

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

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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







BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Kolon, kiriş nedir?

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







ATTASCATÉ HILL

YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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













YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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







YAPISAL FIZIBILITE

TAHRIBATLI TEST SONRASI ONARIM

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

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



















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

ATLASCOT HILL

ATLASCON' HILL

ATLASCOT HILL









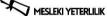
İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR

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



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





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



CEVRESEL ETKILER

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

Kazi, kırını, karet ve onanım hare: hazırlama esnasında görevli olmayan paydaşlar, çalışma noktalarına 5m den fazie yaldışmamalıdır. Bu sırırlıla: çıkıan toz, yülsek gürüllülere uzun süre maruziyet, fırlayan appal/ beten pargalarında netki lemen kinnal atradan kallacaktır.

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

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

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

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

- Kınım, karat, spiral işlemi esnasında gürültü, anlık olarak 105dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bi reylerin karsanıtrasyonlarının olumsuz yönde etkilerimesi muhtermekdir.
- permouseursyen in zonammagontanna ourma, yöndide eftellerinnetia mürtemeldir.
 Kirem ve karart esinasinda ordnya çikan artikaf (alar, siva de betan parçalan /tazkar, demir tazkar, çapadian, parçalan) josevil telenik uzmanlar ve çolişanlar terinden terinden eterinden elektre terinden karartik erinden bölgilerdir. İstina terinden bölgilerdir yayıtıllarık depolanaccıları, Bu çalışındara bölgil ciddi mirtarda atlık çilması bekirinmenletdir.
- oekennementeraur.
 Tieme hargismen kullarınını eirasında çıkan anilan, üretici tarafından beyan edilen şekilde (MSDS-Marterd Safer) Data Sheer (Türkçes Gürenin Bilgi Formu (GBF) alandı adandırdırındıradı;)) sanıflandırıladı okt boğladırındır tarafından gaştelen bölgelere aynıştırılarak depolanacakın. Bu çalışmalara bağlı adalı mi Harda atik girman bellenmenekedir.
- Projede görevlendirilen teknik uzman ve çalışanların, içecek ve yiyecek tüketimlerine bağlı ortaya çıkacak geri dönüştürülebilir atıklarının tamamı, bina içinde tessi edilen geri dönüşüm kutularına atılır.



SOSYAL ETKILER

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

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





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





ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

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

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

ENERJI VERIMLILIĞI

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







ATLASCON' HILL





ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

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











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

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

Bina topraklama sürekliliği soraulanır. Kacak akım koruma sistemleri ve etkinliği

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

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

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







ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI









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

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



ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

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













CEVRESEL SOSYAL ETKILER

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



- o umuu an enem naz sanau aagaan. Caliymalar ennaundo, kulanio ve diğar paydoyların çoliyma alanların oyaklaymomaları husunundo yapıları uyanları dikote olonok, destakvermende isaa ediyoruz.
- Test, muovene galismalan sonrasi, ga isma sahalarinda herhangi birikrilik olusmasi bekenmemekle birikre, oluşabilecek olası krilik rovotimadan berhavdı adılazektri.
- Ozellike elektrik kai te analtzi ve topraklama algümleri esnasında, birra enerjisi kısa süreleri için kesilebilir (kaçak akırı sisteminin derveye girmesi vi, İbu durundan bir akıılamıcılarını erkilerinemesi için (bilgisoyar verilericin kaybedilmesi isk) yapılaraklıyarı va düzellerinaları uyulması atınamıcı aralı verilerine ili yapılaraklıyarı va düzellerinaları uyulması atınamıcı aralı verilerine ili yapılaraklıyarı va düzellerindeli uyulması aralı verilerin verilerine ili verilerine ili yapında ili verilerine il
- Projede görev alan çalışanlarır hiç bir kaşul altında paydaşlarile terişmamanlırısısı, inda gerekli üyenlar yapılmıştır.
 Böyle bir durumla karşılaşılması halinde önen ve şikoyet mekanizmalan vasınasıyla bizleve ulaşmanızı bekilyaruz.
- BO'an çaişaniar ayı maili, ciniyet temeli şiddet konusunda öligilend ilmişve proje kapsamında bu tip daeranşlara hickir şari ve keşu allı ridatzin verilmişvezeği bi kilintiştir. Bu yaktaşının aylını hareket edenlerin projede görev alımasında görevilenin deven hilişin müsaade edilmişveçektir.



ÖNERI SIKAYET SISTEMI

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

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



ÖNERI ŞIKAYET SISTEMI

Çevre, Şehirci lik ve İklim Değişikliği Bakan iğihin (ÇŞİDB) hem telefon hem de web sitesi aracı iğıyla genet, sem tals ver tilan til verste flere gjenet godarning mit gjestog hen til verste med eved ste stadestyde visjkolofen bir VAIOTT yratem hort var fle by aradım hort vorst zamanda çalışındırı, çözüm ortokları ve daha genes zürmeler için botanlık düzeynde bir şiktiyet meklanizması işlev, gözür. ÇİSIDI tarafından söğlaran tilan çerre ve sehir hizmelfeni ile ilgili sanı, talabı ve skayetler profesyonal ölarak yönetilen ALO 18 çağır mekkezi tarafından yanıtlaramlatdar ya da Ploje Uygulama Birmine letiline-kedir.

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

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





















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

Project Code WB/CS-DESSUP-01 Building Name KOCAELİ KANDIRA KYK DORMITORY

Date 17.04.2024 Start | End

Time 14

START TIME	END TIME	ACTIVITY
14:30	14:33	Meeting kick-off speech
14:33	14:35	Within the framework of the Law on the Protection of Personal Data, general information was provided regarding the meeting recording and the processing of personal data. There are no participants who oppose the meeting recording. • As of 14:35, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.
14:35	14:38	Information was given about the SREEPB project and its objectives.
		Image 7 PRESENTATION FILE SHARED SECTIONS_01







	RAMI DIVIDADE A DESCRIPTION OF THE PROPERTY OF
	Kamu Binalannda Deprem Dayanımı ve Enerji Verimliliği (KADEV) Projesi; yüksek sismik risk altında ve enerji verimliliği düşük yükseköğretim binaları, yurtlar, sosyal hizmet kurumları, hastarıler ve hükümet konsıldarı gibi kamu binalannda sismik güzenlerinlik generimlik gener
14:38 14:41	• The renovations to be carried out for the structural retrofitting identified as a result of the feasibility study have been explained in detail. (Structural system reinforcement, fine works, etc.)







ve Enerji Verimliliği Projesi

Image 8 PRESENTATION FILE SHARED SECTIONS_02	
	Yapım Aşaması Sür irretesinde, yapıdı ajolyardırını va eneği verimliği delek renovasyerlar beldirenmiş ve projekndrilmiştir. Sür kurulur renovasyerları kapıldır ana başıldır. Sür kurulur renovasyerları beldirenmiş ve projekndrilmiştir. Sür kurulur renovasyerları dele directi delektiriliştir. Yapısal Gürfandirme 1. Wasatırınınının dele directi deleşir, izanir indice. 1. Wasatırınının dele directi deleşir izanir deleti. 1. Oran serim directi deletiriliştir. 1. Oran serim directi deletiriliştir. 1. Oran serim directi deletiriliştir. 1. Wasatırının deletiriliştir. 1. Wasatırının deletiriliştir. 1. Wasatırının deletiriliştir. 1. Wasatırının deletiriliştir. 2. Oran serim deletiriliştir. 2. Oran serim deletiriliştir. 3. Wasatırının deletiriliştir. 3. Wasatırının deletiriliştir. 3. Wasatırının deletiriliştir. 4. Wasatırının deletiriliştir. 4. Wasatırının deletiriliştir. 5. Wasatırının deletiriliştir. 5. Wasatırının deletiriliştir. 5. Wasatırının deletiriliştir. 6. Wasatırının deletiriliştir.
Yapısal Güçlendirme Taştıcı Sistem Güçlendirme Güçlendirme perdeler ik kolon martolan yapılasık alsürdaki düvndur jayrellenerek in izi kaltar şisklik, buylavçı kıltın martolan yapılanık testire delprarakın örkülendir yarrelindir. İstinat eleprarakın sökülendir ve Yaydılanın kunum gösterilen alanlardı geççi on ulullara delecidir. Oli	kapı, pencere, çevresinin açılması için subasman betonunun kırılması ve temel içi dolgusunun kazılması gerekmektedir. Bu
delikieri detay projeleri hava kompresorii ile te	









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		Vapisal Güçlendirme Taytır Sistem Gürlendirme Anraj imsatları ile bezerber gürlerime donatorun döçenmesi şirine başlancadır. Donatı numune kontrolleri sonari Phytocol kalişir ile pastaları kanıları ber bezerber gürlerimen donatorun döçenmesi şirine başlancadır. Donatı numune kontrolleri sonari Phytocol kalişir ile pastaları ile kanıları verinisiden kalişir verinisiden kalişiri kanıları kalişiri
14:41	14:45	 The renovations to be carried out for energy efficiency determined as a result of the survey are explained in detail. Solar Power Plants Heating Center Renovation Motor & Pump Replacement LED Conversion Automation System Facade Insulation Terrace Roof Insulation Exterior Door Replacement Image 9 PRESENTATION FILE SHARED SECTIONS_03

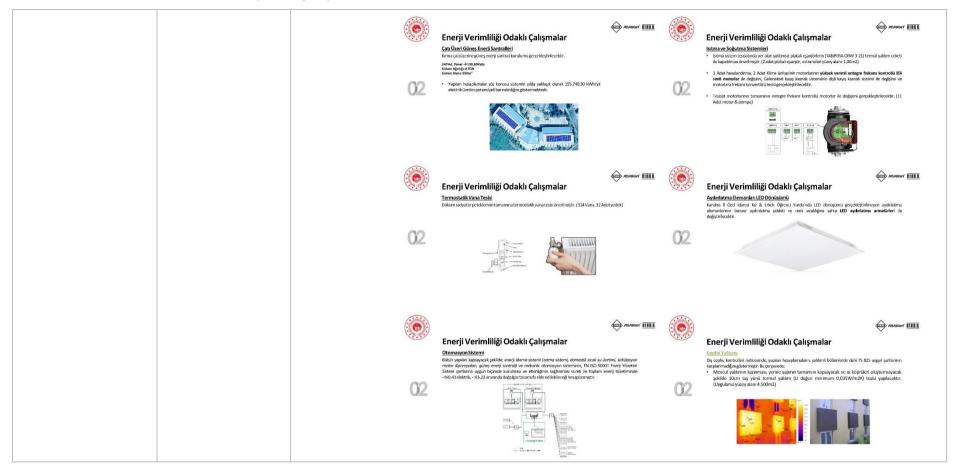








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		Enerji Verimiliiği Odaklı Çalışmalar Catitatur Templemediyen oran reticente girdi segula hosulunlar mocelu tomul yaktımı 13 ES yatılırını İstinative oran pullularininya deverimenteri. Everimili ili odaklı çalışmalar 1. 6ma pullularininya deverimenteri. Everimili ili odaklı çalışmalar 1. 6ma pullularininya deverimili ili odaklı çalışmalar 1. 6ma pullularininya deverimili ili odaklı ili çalışmalar verimili ili odaklı oran ili çalışmalar verimili ili odaklı çalışmalar 1. 6ma pullularininya deverimili ili odaklı ili çalışmalar verimili ili odaklı ili çalışmalar verimili ili odaklı ili çalışmalar 1. 6ma pullularininya deverimili ili odaklı ili çalışmalar verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları verimili ili odaklı ili çalışmaları v
14:45	14:50	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 10 PRESENTATION FILE SHARED SECTIONS_04
		is Sağlığı & Güvenliği Yapım sürecinelijikin şaşağlağına yakarılanındar. Yüklenidifirmanır. • Tarifirmesi harakınan is SAĞLİĞ Güvenliği Akarılanın harakınanın verili delağı büzün çolaraklanın bara indeninde yapılmış akarılanın bara indeninde yapılmış akarılanın baratının verili delağı büzün çolaraklanın bara indeninde yapılmış akarılanın baratının verili delağı büzün çolaraklanın ber ildi delektrili düzünderin delağırılanın indeninde yapılmış akarılanın baratının verili delağı büzün çolaraklanın ber ildi delektrili düzünderin delağırılanın verili delağı büzün çolaraklanın ber ildi delektrili düzünderin delağırılanın verili delektrili düzünderin delağırılanın verili delektrili düzünderin delağırılanın ber ildi delektrili düzünderin delektrili delektrili delektrili düzünderin delektrili delektrili delektrili düzünderin delektrili yapılmış delektrili delektr
		is Sağlığı Güvenliği Calışırlam tamarını ş Adulfa (GVPNI/GI P.ANI içinde belirtleri kişsel koruy.cu domanmları deplini soldir. kullarında yaklarıldır. Siz konusu domanmları uygan yekide taşımıyarı futlarımayarıların optalarıları korullarılarılarıları kullarılarılarılarılarılarılarılarılarılar
14 : 50	14 : 54	 Information was given about the traffic action plan.







		■ Health & Safety Organization was explained. Image 11 PRESENTATION FILE SHARED SECTIONS_05	PUNGON HILL
		Trafik Eylem Planı · Kampüsiçin araç kultamıtlarını ilişkin sınıtari <u>Ssağlık üşüven ildi Planlı içinde belinlimiştir.</u> Sağlık & Güvenlik Organizasyonu	~
		Section of the sectio	
14 : 54	14: 56	The environmental impacts of the work to be carried out are explained.	







Image 12 PRESENTATION FILE SHARED SECTIONS_06 ATLASCOT HILL ATLASCOT! HILL Cevresel Etkiler Proje sahası, Koraeli il Özel İdanısı Kandıra Öğrenci Yurı Müdürlüğü alanı İçerisindedir. Kampus dişində yer alan diğer binaların inşaast süreçlerinden <u>doğrudan et</u>kilenmeleri söz konusu değildir. Faailyet aları çevresi sasıldaş rözlerilmişti. Cevresel Etkiler İnşaat çalışmaları sırasında, bölgede hâlihazırda mevcut olan kanalizasyon, elektrik ve su şebekeleri kullanılacılıktır. Evsel atkkin, beledige hzmetlerinden faystlahnlorisk bestranf edileció, diger atkkar igni sie geçci depolama atariar i odsturuluja isarnif firmisiora bestranfinin yopimisa sajánoralatir. Proje čerelinde herbangi bir akupja firmed alim gelefrene di Amurati (jamallauguri hallameta) tilamisa socioca ularna (Valderia akupja firmed alim gelefrene) darimanti (jamallauguri hallameta) tilamisa socioca ularna (Valderia micasdie vk.) imocca ataripa jirmishalin (jeneratör vk.) degerlendriskosk ve ligiti yönetmeliklere uygun durale geziedelyitelecistir. ATLASCOT! HILL Çevresel Etkiler Çevresel Etkiler Proje kapsamında; Müşavirin, Yüklenici firma personellerine vereceği eğitiriler sonucunda, yüklenici firmanın kurumsal kapasitesinin gelişmesi beklenmektedir. Bu eğitimler aşağıda listelenmiştir. İnşaat, Hafriyat Atıkları: Söküm faaliyetlerisonucunda binaya alt zimmetli malzeme oluşması durumunda bina yönetimine çıkan malzemenin teslim edildiğine dair belge alınacaktır. İnşaut/yıkıntı atıklarının kazanı'ması ve özellikle alt yapı malzemesi olarak yeniden değerlendirinesi öncelikli olarak ele alınacaktır. Hatriyat atıkları ilgili belediyenin atık depolama tesisine gönderilerektir Atıkların sahayakobul deliceğine deir Beledeyeniden resmi yazı alınarak (karıye sunulacaktır. ATLASCON' HILL Çevresel Etkiler ATLASCORT HILL Atık Yönetimi Cevresel Etkiler Atık Yönetimi Oluşacak evsel nitelikli atıklar kaynağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir olanların geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim Santiye sahasında oluşması muhtemel tehlikeli kimyasal madde ve atıkların Çevre Şehircilik ve İklim Değişikliği Bakanlığı çevrimiçi programı Entegre Çevre Bilgi Sistemi (E-ÇBS) üzerinden atık yönetim üzerildirine ili ilininizindi kiranlı berdarat Esiylerini çeviserinlereklir. Geri kazanımı mümkün olmayan atıklar, ağzı kapalı sıhhi çöp bidonlarında biriktirilecek, Yetkili Belediyenin katı atık toplama sistemi aracılığıyla düzenli depolama sahalarına gönderilecektir. Çalışma sahalarında döküntü sızıntı emici ped kitleri hazır bulundurulacıktır. Görevli bütün perso tehlikeli kimyasal sızıntı ve döküntüsüne ilişkin korunma ve acil durum eğitimine tabi tutulacaktır. Ambalaj Atıkları; Kontamine olmamış geri dönüştürülebilir atıkların (plastik, cam, kağıt, vb.) geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir. Ortave büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır. Todiat/inşaxt çalışmalan sırasında sökülen kulanılmış floresan lambalar ruhsatlı tesislerde bertaraf edileciklir. Malasmenin taşınmasına ve bertarafıra ilişkin gerakli belgeler, inpat şantiyesinde tutularak ve istenirse ÇSiD8ve Dünya Bankası'naibraz edilecektir. Tehlikeli maddeler ile kontamine olmuş atıkların tamamı, tehlikeli atık statüsünde değerlendirilecektir.









14:56	14:58	■ 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		
		Paydagiammas a katamak is tedelijamis hususta punkarit; - Sie konsus uplamis harina dagramma nobuma odelimos kolonosu dajbidr. - Litajorichimos ve monsuoyon jadagiamis nobuma odelimos paydajiam pilipma sakalatna - Litajorichimos ve monsuoyon sakan sakama veriligen paydajiam pilipma sakalatna - Gijicrosimi ve Ne Reconogen pilipmalimi nomano, olama alahatursiagenda di cacellemeke, göredi penanderi tardina gerçekieri inferita nosa, alakan sakama tala talan sakama tal		
		Sosyal Etkiler Proci again mids. Majorini riklenici persondi ne verecegli ejdimier sonucunda yüllenidi firmanın kurumsalı majorini soli kirili persondi filolokumiğir. - (perresi ve Songa Etkiler - (perresi ve Songa E		
14:58	15:01	 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 		







		Yikherid frankens spraken iş sağığı ya gönetliğ kuralına in gard çonorud noqul elder, riskenirin kuralınan ild pala içinka spikermeşter no iğişi kirin çiderinin kediran ildiği kuralın il
15:01	15:05	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 Sikayet Sistemi
15:05	15:15	Participants' questions were received and answered. CLOSING speech was made and the meeting was ended.











Questions and Answers

Tablo 3 QUESTIONS & ANSWERS LIST

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER
01	Participant 1	When will the retrofitting start? How many months will it take?	Ganime Güzel	It was said that information would be provided as a result of the meeting between the dormitory administration and the Ministry administration.
02	Participant 2	Can students stay in one block while retrofitting is being done?	Tülün Yıldırım	It has been stated that the entire building will be required to be evacuated and that all buildings will be evacuated as it will be dangerous once the demolition work begins.
03	Participant 3	Will items be removed?	Orhan Kenan Sülahi	It is stated that the items will be removed or taken under protection
04	Participant 4	How long do you anticipate the project will take?	Orhan Kenan Sülahi	It was said that it could be 6-8 months on average, depending on the work plan given by the contractor
05	Participant 5	How resistant to earthquake is our building?	Orhan Kenan Sülahi	It was stated that studies were carried out before the project started, that they could be shared if desired, and that the performance of the building in terms of reinforcement was not too bad.









Paydaş Katılımı Toplantı Raporu

2023

06	Participant 6	Will we be able to complete the school year?	Ganime Güzel	It has been stated that students are currently staying in the dormitory, that a tender can be held when the dormitory is vacated, that since the dormitories are in use, the administrations will jointly decide on the tender process, and that it is necessary to prepare a work schedule as a priority.
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Table 2 MEETING NOTES & GENERAL EVALUATION

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









Table 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) Bedri Özdemir (Social Expert)
- 5) Cuma Baz (Occupational Health and Safety Consultant)
- 6) 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





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KAMU BİNALARINDA DEPREM DAYAMIMI & ENERJİ VERİMLİLİĞI PROJESİ

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





https://kamuguclendirme.csb.gov.tr

Bu sunum; KOCAELİ KANDIRA İL ÖZEL İDARESİ KIZ & ERKEK ÖĞRENCİ YURT BİNASI (11.883,57 m²) yapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmaları hakkında bilgi verecektir.

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.









Etüt neticesinde; yapısal güçlendirme ve enerji verimliliği odaklı re





Enerji Verimliliği

- Gephere çatı termolyalitm
 Gapi dağlalmani
 Sirküleyer sistem motor/p





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















Enerji Verimliliği Odaklı Çalışmalar



Enerji Verimliliği Odaklı Çalışmalar

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Kırma çatı üzerine güneş enerji santrali kurulumu gerçekleştirilecektir.



Isıtma ve Soğutma Sistemleri

- İsitma sistem tesisatında yer alan yalıtımsız plakalı eşanjörlerin (TANPERA ORW 3-21) termal yalıtım ceketi ile kapatılması önerilmiştir. (2 adet plakalı eşanjör, ısı transferi yüzey alanı: 1,06m2)
- 1 Adet havalandırma, 2 Adet Klima ünitesinin motorlarının yüksek verimli entegre frekans kontrollü IE4 anıfı motorlar ile değişimi, Geleneksel kayış kasnak sisteminin dişli kayış kasnak sistemi ile değişimi ve motorlara frekanskonvertörü tesisi gerçekleştirilecektir.
- Tesisat motorlarının tamamının entegre frekans kontrollü motorlar ile değişimi gerçekleştirilecektir. (11





Enerji Verimliliği Odaklı Çalışmalar

Döküm radyatör peteklerinin tamamına termostatik vana tesisi önerilmiştir. (314 Vana, 32 Adet yedek)









Enerji Verimliliği Odaklı Çalışmalar

Aydınlatma Elemanları LED Dönüşümü

Kandıra İl Özel İdaresi Kız & Erkek Öğrenci Yurdu'nda LED dönüşümü gerçekleştirilmeyen aydınlatma elemanlarının benzer aydınlatma şiddeti ve renk sıcaklığına sahip LED aydınlatma armatürleri ile değiştirilecektir.





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Enerji Verimliliği Odaklı Çalışmalar

Otomasyon Sistemi

Bütün yapıları kapsayacak şekilde; enerji irleme sistemi (ısıtma sistemi, domestik sıcak su üretimi, sirkülasyon motor &pompalan, güneş enerji santral) ve mekanik otomasyon sisteminin. EN ISO 50001 Enerji Yönetim Sitan şarlarına üygün bişinde kurulması ve etkiriliğinin sağlarıması sureti ile toplam enerji tüketiminde -360,43 elektris, -96,52 corannda doğlağar tasarını'de de delibelizedi Şebasplanmıştı.





Enerji Verimliliği Odaklı Çalışmalar

Dış cephe kontrolleri neticesinde; yapılan hesaplamaların, yalıtımlı bölümlerde dahi TS 825 asgari şartlarının

Usç cepre kontrolen netecende; yapısın hesapamalanı, yalatınlı boumerdir dalı 13 825 siganı şarlanını karşılamındiğingistemiğir. Buçerçende;

Mecul yalıtının kazımısı, yerine yapının tamamını kapsayacak ve isi köprüleri oluşturmayacak şekide 10cm taş yünü termal yalıtını (U değeri minimum 0,035W/m2K) tesisi yapılacaktır. (Uygulamayüzey aları 4500m2)

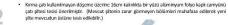






Enerji Verimliliği Odaklı Çalışmalar

Yerinde yapılan inceleme neticesinde çatıda yapılan hesaplamalar meycut termal yalıtımın TS 825 sartlarını karşılamadığını ortaya koymaktadır. Bu çerçevede







Enerji Verimliliği Odaklı Çalışmalar

Tek camlı ve yalıtımsır olduğu tespit edilen 1,6 ve 8 numaralı kapıların 4x16x4 çift camlı ve termal yalıtımlı kapılarıle değişimi sağlanacaktır. (11m2 uygulama alanı)













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Yapılan hesaplamalar söz konusu sistemin yılda yaklaşık olarak 155.740,30 kWh/yıl elektrik üretim potansiyeli barındırdığını göstermektedir.













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Enerji Verimliliği Odaklı Çalışmalar

Yapılan hesaplamalar neticesinde Kocaeli Kandıra İl Özel İdaresi Kandıra Öğrenci Yurt Müdürlüğü Kız & Erkek Öğrenci Yurdu özelinde belirlenen önlem senaryolarının hayata geçirilmesi ile toplam enerji tüketiminde 26,55% oranında tasarruf elde edilebilecek, yaklaşık 175,44 ton/yıl sera gazı emisyonu engellenebilecektir. Söz konusu renovasyonlar ve yenilenen sistemlerin FN ISO 50001 Enerii Yönetim Sistem sartlarına uygun bicimde işletilmesi ile yıllık 195.162,45 kWh elektrik, 305.300,12 kWh doğalgaz tasarrufu sağlanabilecektir. Söz konusu tasarrufun maddi boyutu yaklaşık 1.191.697,73b/yıl seviyesindedir.



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 başlayacaktı

Paydaşlanmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

Mobil vinc, kompresör vb. iş makinelerinin tamamının periyodik muayene raporlarının temin edilmiş olması ve makineler içinde haze hulundurulması zarurlafı. Sök komusu makineler, yetkili operatörler tarafından kullarılabilir. Operatörler yetki belgelerini hazer bulundurmalı ve saha kontrolleri, denetimleri exasanda yetkilili Suzmaniamınınlatejleri doğurlusunula beyon edebilmelidir.

İş Sağlığı Güvenliği

- Sahada kullarıları her türlü elektrikli cihaz/ekipmanın elektrik açdan gürenli öklüğunu gösterir PAT testleri yapılmış olmalıdır. Söz konusu ekipmanların tamamında cihaz üzerlerinde uygunluğu gösterir etiketler 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 kullanmalıldır.
- Bütün çalışanların, «Ternel İSG Eğitimini», «Risk Analizi Eğitimini» almış olması zaruridir.
 Yüksekte calışacak personellerin «Yüksekte Calışma Eğitimin» almış olması zaruridir.
- Bütün çalışanların «EKED Etiketle Kilitle Emniyete Al Dene Eğitimini» almış olmasızaruridir.
- $\bullet \quad \text{Calişanların } \\ \text{ of SAĞLIĞI GÜVENLİĞİ PLANI* içinde belirtilen diğer ligili eğitimleri çalışma öncesinde alması zarurldir.} \\$ iş iskelelerinin TS EN 12811-1 standart şardırını karşılarınsa esastır. Söz konusu iş iskelelerinde çalışazak bütün personellerin yüksekte çalşma eğitimi almış olmalan, paraşüt tipi emniyet kemeri ve düşme engelleyici ekipmanları kullanmaları zanıridir.
- Kampüs içinde İŞ SAĞLIĞI GÜVENLIĞİ PLANI içinde belirtilen «TRAFİKEYLEM PLANINA» uygun hareket edilmelidir.
- Yüklenici firma; bu çalışma sahası özelinde acil durum eylem planları geliştirmeli ve bütün çalışanlarını kapsar mahiyette tatbikatlar gerçekleştirmelidir.









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





Kampüs için araç kullanımlarına ilişkin sınırlar İŞ SAĞLIĞI GÜVENLİĞİ PLANI içinde belirtilmiştir.





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



- KulakTikacı-TSEN 352-2
- Koruvucu Gözlük TS EN ISO 16321-3
- Genel Amaçlı İş Eldiveni TS EN ISO 21420
- İs Avakkabısı TS FM ISO 20347
- Yarım Yüz Maskesi TS EN 140

Sağlık & Güvenlik Organizasyonu

DESTEN SALISAN 180 CONSASSASSION



Paraşüt Tipi Emniyet Kemeri - TS EN 361 (Sadece yüksekte çalışanı)

INTER HEX NI SORLINGULAR



Çevresel Etkiler

Proje sahası; Kocaeli İl Özel İdaresi Kandıra Öğrenci Yurt Müdürlüğü alanı içerisindedir. Kumpüs dışında yer alan diğer binalanın inşaat süreçlerinden doğrudan etkilenmeleri sür konusu değildir. Faaliyet alanı çevresi aşağıda gösteriniştir.









Cevresel Etkiler



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

Eved atköar, belediye hörmetlerinden taykölanlarak bertaraf edilecik, diğer atköar için ise geçizi depolama alarları oluşturuluş ilarak firmalarıcı bertarafının yapimusı sağlarıcısızır. Proje cederde herharigi bir harredi alırını, uzun sürel elektrik isusanlık indeli ilerardişi, uzun sürel sis kesinlek ile bir herike ile toli müzadele ko) mexcut alapşırı inkinları (jenesitör kı). değerlendirlecek ve ilgili yönetmeliklere uygun darak geçireleçirilericidir.



















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Çevresel Etkiler



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Çevresel Etkiler



- Çevresel ve Sosyal Etkiler
 Atık Yönetimi



Çevresel Etkiler

Atık Yönetimi

İnşaat, Hafriyat Atıkları:

- Söküm faaliyetleri sonucunda binaya ait zimmetli malzeme oluşması durumunda bina yönetir malzemenin teslim edildiğine dair belge alınacaktır.
- İnşaat/yıkıntı atıklarının kazanılması ve özellikle alt yapı malzemesi olarak yeniden değerlendirilmesi öncelliki olarak ele alınacaktır. Hafriyat atıklan iğin blediyerin atık depolama tesisine gönderilecektir. Atıkların sahayakabıl delleceğine dalı Belediyesinden resmi yazı alınarak iklarıye sunulucaktır.

Atık Yönetimi





- Proje sahsanda tehiliedi atkkinn gegici olarak depolannasi durumunda aisklar, sağlam, sadiması, emniyetli ve ukuslararası kabul görmüş standartara uygan lonteynerlerde ve proje alanı içeririnde mahatara deliciek, konteynerlerin üzerinde tehilidə alat ilasmerine yer verilecik ve depolanan madderin atık ibodu, miktan, keriği, özelililerin, konuna koyulları ve depolama tarihi konteynerleri zerirrede belirindekir iterilidi. medeleri azırılı de geçici olarık depolamlarılı (reçer depolara alarılını yaktırılı gerin burgindun mesusular oygun olarık birlerinde kolmisinden iden belirilerede veriliyene dek onuna danlar bidirleredekir).
- Zararlı maddelerin saklandığı konteynerler ve atık yağlar toprağa dökülme ve sırıntıyı önlemek için sızdırmaz beton alanlara verleştir lecektir.
- Zehirli iceriğe sahio boyalar, eritici madde (solvent) va da kursun bazlı kirmyasallar kullanılmavacaktır.



Çevresel Etkiler

Atık Yönetimi

Tehlikeli Atıklar:





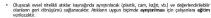
- Şantiye sahasında oluşması muhtemel tehlikeli kimyasal madde ve atkıların Çevre Şehircilik ve iklim Değişikliği Bakanlığı çevrimiçi programı Entegre Çevre Bigi Sistemi (E-ÇBS) üzerinden attik yönetimi uygularması kullarılarıak ilsarısık bertaraf tesislerine göndenlecektir.
- Çalışma sahalarında döküntü sızıntı emici ped kitleri hazır bulundurulacaktır. Görevli bütün personeller tehlikeli kimyasal sızıntı ve döküntüsüne ilişkin korunma ve acil durum eğitimine tabi tutulacaktır.
- Orta ve büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır.
- Tadilat/inşaat çalışmaları sırasında sökülen kullanılmış floresan lambalar ruhsatlı teislerde bertaraf edilecektir. Malzemenin taşınmasına ve bertarafına ilişkin gerekli belgeler, inşaat şantiyesinde tutularak ve istenisire ÇİDBve Dünya Bankas'nai biraz edilecektir.



Çevresel Etkiler

Atık Yönetimi

Evsel Atıklar:



Geri kazanımı mümkün olmayan attidar, ağzı kapalı sihhi çöp bidonlarında biriktirilecek, Yetkili Belediyenin katı attik toplama sistemi aracılığıyla düzenli depolama sahalarına gönderilecektir.

Ambalaj Atıklarç

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



Sosyal Etkiler

Paydaşlarımıza aktarmak istediğimiz hususlar şunlardır;

- Söz konusu çalışmaların, <u>bina dayanımını olumsuz etkilemesi</u> söz konusu değildir.
- Güçlendirme ve renovasyon çalışmaları esnasında, kullarıcı ve diğer paydaşların çalışma sahalarına yaklaşma maları hususunda yapıları uyarıları di kkate alarak destek vermenizi rica ediyoruz.



yadıyılında ini karalında yadının iyanın unukaralın oluksevi kerin edir. Ölüğürdi mer kerinde ili düşeri derinde ili değirdi.

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İli diğirdi değird

Bütün çalışanlarayırıncılık, cinsiyet temelli şiddet konusunda bilgilendi illecektir ve proje kapsamında bu tip davranışlara hiçbir şart ve koşul altında izin verilmeyeceği bil dirilmiştir. Bu yaklaşıma ayları hareket ederilerin projicle görre vilmanına ya ka görevlerinin devamlığına 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.

- Çevresel ve Sosyal Etkiler

 - Coverses ve bosya Exister
 Paydaş Katılım/Bilglendirme Faaliyetleri
 Sikayet Mekanitması (ŞM)
 Cimiyet Eşitliği / Graiyet Temelli Şiddet/Cinsel Sömürü/Cinsel Saldın/Cinsel Taciz

 - Davranış Kuralları
 Tarihi Mirasın Korunması

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.







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









Öneri Şikayet Sistemi

Gens Sebratik vs. Nam Delgsäß Behanfginn (SGISD) hen belön hen de veib sted antalgsån erjällich im Vär 0.11 yndern hat vantr. De jaren hat an an zamen de problem ordsten ve detta gare jarmeter ich belandt düreyhde bir sikkelt mekantomas lijeha gört. GSID standfans sägären in han oven ve sehr harmet in beljä son, tilek ve sägsetter protesyonel darak jörtellen AD. 181 yağın merkeci tarafından yanıtarmaktadır ya da Proje Uyakama Birinni coliminatiodir.

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







ATLASCON' PILLE İlgi ve anlayışınız için teşekkür ederiz!





