



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

MINISTRY OF YOUTH AND SPORTS KOCAELİ KARAMÜRSEL GAZANFER BİLGE STUDENT DORMITORY

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

March 2024



Table of Contents

Ex	ecutiv	Summary	5
Int	roduct	ion	6
1	Gen	eral Project and Project Area Information	7
	1.1	Project Description	7
	1.1.1	o	
	1.1.2	Project Information	
	1.1.3	Locations of Campus & Buildings	
2 (E		pliance with Legal Framework and World Bank Environmental and Social I	
,	2.1	National Regulation	13
2	2.2	International Conventions	15
2	2.3	World Bank Environmental and Social Framework (ESF) and Standards	16
3	Acti	vities to be Conducted within the Scope of the Project	17
4	Stak	eholder Engagement and Grievance Mechanism (GM)	24
5	Envi	ronmental and Social Risks & Impacts and Precautions to be Taken	27
6	Envi	ronmental and Social Monitoring Plan	53
7	Duti	es and Responsibilities	64
8	Repo	orting	66
Ar	nex I:	Solid Models of Building Considered within the Scope of the Project	67
Ar	nex II	World Bank (WB) Environmental and Social Standard Summaries	68
Ar	nex II	E: Suggestion & Grievance Form (Internet)	73
Ar	nex IV	7: Suggestion & Grievance Form (Printed)	74
Ar	nex V	Grievance Closeout Form	75
Ar	nex V	I Stakeholder Engagement Meeting Content & Records (Feasibility Studies)	76
Qι	estion	s and Answers	86
Pa	rticipa	nt List and Contact Information	88
		ler Engagement Meeting Presentation	
Ar	nex V	II Stakeholder Engagement Meeting Content & Records (Feasibility Studies)	95
Qι	estion	s and Answers	105
		nt List and Contact Information	
Sta	akeholo	ler Engagement Meeting Presentation	109

Table List

Table 1-1: Building General Information	9
Table 2-1: The Applicability of the World Bank Environmental and Social Standards to the Project	16
Table 3-1: Summary Information About the Activities to be Conducted	17
Table 4-1: CİMER Communication Channels	26
Table 4-2: GM Communication Channels	26
Table 5-1: List of Environmental & Social Effects and Measures to be Taken	27
Table 6-1: Environmental and Social Monitoring Plan	53
Table 7-1: Task Distribution List	64
Table 8-1: Reporting Process Requirement List	66
Figure List	
Figure 1-1: Gazanfer Bilge Student Dormitory Buildings within the Scope of the Project	8
Figure 1-2: Campus Borders and Coordinates	10
Figure 1-3: Gazanfer Bilge Student Dormitory View and Coordinates	11
Figure 1-4: Approach Distances and Major Impact Area of the Buildings Included In The Scope of the P	roject 12
Figure 3-1: Gazanfer Bilge Student Dormitory and Surroundings	17
Figure3-2: Gazanfer Bilge Student Dormitory View	18
Figure 3-3: Traffic Action Plan	20

Rev-04_Revision Date:12.03.2024

Abbreviations

BU Bogazici University
BP Bank Procedure

CİMER Presidency's Communication Center

E&S Environmental and Social EA Environmental Assessment

EIA Environmental Impact Assessment
ESF Environmental and Social Framework
EHS Environment, Health, and Safety
ESS Environmental and Social Standards

ESMF Environmental and Social Management Framework

ESMP Environmental and Social Management Plan

MoEUCC Ministry of Environment, Urbanization, and Climate Change

WB World Bank

dBA Noise Reduction and Control

dBC Noise Rating Measure LOTO Lock Out-Tag Out SPP Solar Power Plant

ILO International Labor OrganizationM&E Monitoring and Evaluation

ITU Istanbul Technical University
OHS Occupational Health and Safety

SREEPB Seismic Resilience Enegy Efficiency Public Buildings

PPE Personal Protective Equipment

Consultant Tümaş & ATLASCert® & Hill Joint Venture

PIU Project Implementation Unit

PV Photovoltaic Panel

SGI Social Security Institution
GM Grievance Mechanism

GDCA General Directorate of Construction Affairs

Executive Summary

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 efforts for the Gazanfer Bilge Student Dormitory building within the Youth and Sports Ministry. It discusses the applicable national and international regulations, outlines measures to mitigate or eliminate potential adverse environmental and social impacts during the projects, and addresses health and safety measures. Additionally, this Environmental and Social Management Plan (ESMP) includes details about stakeholder engagement activities, and the establishment of a Grievance Mechanism (GM), and outlines the responsibilities of relevant parties within the project scope.

Introduction

This Environmental and Social Management Plan (ESMP) has been prepared within the scope of the Seismic Resilience and Energy Efficiency in Public Buildings Project (SREEPB) for the Gazanfer Bilge Dormitory Building located at Gazanfer Bilge Mahallesi, Yaşar Doğu Cd. 57 A, 41500 Karamürsel/Kocaeli. The plan aims to outline the necessary measures to mitigate or eliminate potential adverse environmental and social impacts, as well as risks that may arise from the structural strengthening and energy efficiency-focused renovation activities at the Gazanfer Bilge Dormitory Building. The goal is to ensure that these effects and risks are maintained at an acceptable level or eliminated.

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

1 General Project and Project Area Information

1.1 Project Description

1.1.1 . General Information and Objectives

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

The aim of the project is to determine the behavior of the ground and structural systems of existing public buildings with different uses against earthquakes and to eliminate the risks by structurally 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 "Modarate" level since it is at a modarate level in terms of size and quality and the sub-project sites are not in sensitive areas in terms of environmental, social risks and impacts. They are also not expected to have serious adverse effects on human health and the environment.

The structure covered by this ESMP is located within the boundaries of Karamürsel District, Kocaeli province. Except for the dormitory buildings, other buildings or structures in the district are not directly affected by the project activities. Additionally, the structures within the scope will be temporarily out of use during the construction activities. Therefore, there is no overlap between the project activity schedule and the daily activities of the structures within the scope.

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

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

1.1.2 Project Information

Satellite images of the Gazanfer Bilge Student Dormitory Buildings (A, B, C, D Blocks) within the scope of the project and detailed information about the buildings are given in Figure 1 and Table 1, respectively.

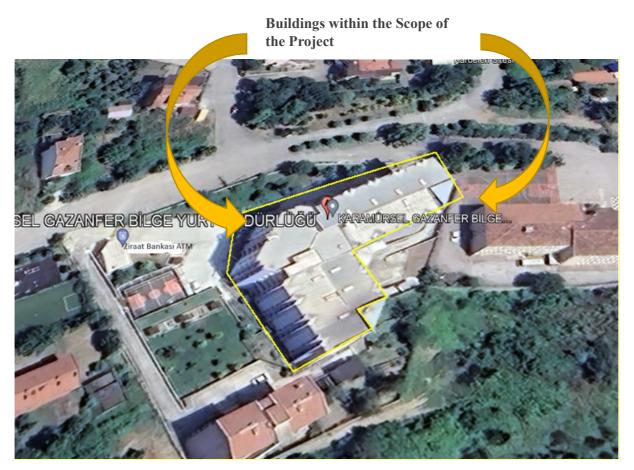


Figure 1-1: Gazanfer Bilge Student Dormitory Buildings within the Scope of the Project

Table 1-1: Building General Information

CAMPUS NAME	Gazanfer Bilge Student Dormitory	
BUILDING NAMES (included in the project)	• Gazenfer Bilge Student Dormitory – (12.647 m²)	
PROVINCE	KOCAELİ	
DISTRICT	KARAMÜRSEL	
NUMBER OF USERS	~800 people/day	
	BUILDING INFORMATION	
CONSTRUCTION AREA	~12.647 m ²	
THE PLANNED W	VORKS TO BE CARRIED OUT IN ALL BUILDINGS INCLUDED IN THE PROJECT	
• Existing load-bearing system reinforcement. • Additional load-bearing system manufacturing • Floor, ceiling, wall and door renovations due to structural strengthening		
ENERGY EFFICIENCY	 Facade and roof thermal insulation Door changes Circulation system motor/pump changes Non-insulated installation elements, thermal insulation installation for heat exchangers Thermal insulation was installed on the heat exchangers in hot water production Changes of pumps in the boiler room Lighting element replacements (one-to-one replacements will be made, electrical installation intervention (line, column line replacement, etc.) will not be conducted.) Self-consumption focused solar power plant facility (on the roof) (to be integrated into the existing supply line) Energy monitoring and automation system facility (to be integrated into the existing electrical system) Replacement of air conditioning unit motors with high-efficiency motors Mechanical automation and energy measurement monitoring system 	

DURATION AND SEASON OF ACTIVITIES

All work to be carried out within the scope of the project will be carried out between the first quarter of 2024 and the fourth quarter of 2024. The Contractor is obliged to complete the works in the buildings within the planned time as stated in the Job Description. At the same time, the Contractor will clearly and in advance inform all stakeholders about the timeline of construction activities before starting any construction work.

EXPECTED NUMBER OF WORKERS

The total estimated number of workers in the buildings is expected to be an average of 80 personnel per day.

1.1.3 Locations of Campus & Buildings

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



No	Latitude	Longitude
1	40.6793	29.5618
2	40.6798	29.5619
3	40.6800	29.5619
4	40.6801	29.5619
5	40.6803	29.5619
6	40.6802	29.5618
7	40.6801	29.5614
8	40.6800	29.5609
9	40.6795	29.5600
10	40.6788	29.5605

Figure 1-2: Campus Borders and Coordinates



NO	Longitude	Latitude
1	29.56172083850010	40.67992953226420
2	2956103145940810	4067969489109860
3	2956102891839280	4067948296524330
4	2956126014923430	4067916463954560
5	2956148772031760	4067928431109900
6	2956144222287960	4067934320297080
7	2956153254845590	4067938377170880
8	295614269472817	4067954603407450
9	2956179967379220	4067974549294300

Figure 1-3: Gazanfer Bilge Student Dormitory View and Coordinates

During the retrofitting and renovation in the buildings, the potential adverse effects that may arise will primarily occur within the building, and due to the absence of the need for soil improvement works, noise and dust generation, increased traffic, parking issues, vibration, and visual effects that may extend outside the building are limited to a distance of 100 m, as shown in Figure 4, affecting the surrounding buildings.

The coordinates and approach boundaries of the buildings within the scope of the project are given in Figure 1.3-1.4.



Figure 1-4: Approach Distances and Major Impact Area of the Buildings Included In The Scope of the Project

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

2.1 National Regulation

The ESMP is primarily prepared in compliance with the legislation of the Republic of Türkiye. The fundamental framework of Turkey's environmental legislation is the Environmental Law (Law No. 2872), published in the Official Gazette dated August 11, 1983, and last revised in the Official Gazette dated December 29, 2022, concerning administrative fines. This law is supported by regulations. Below are the regulations primarily utilized or to be utilized for the assessment and prevention of environmental impacts within the scope of this project

- 1. Waste Management Regulation was published in the Official Gazette dated 2 April 2015 and numbered 29314.
- 2. Regulation on the Control of Packaging Wastes was published in the Official Gazette dated 26 June 2021 and numbered 31523.
- 3. Regulation on the Control of Excavation Soil, Construction and Demolition Wastes was published in the Official Gazette dated 18.03.2004 and numbered 25406, and an amendment was made in the Official Gazette numbered 31623 dated 09 October 2021.
- 4. Air Quality Assessment and Management Regulation was published in the Official Gazette dated 06 June 2008 and numbered 26898.
- 5. Regulation on the Prevention of Risks of Exposure to Biological Agents was published in the Official Gazette dated 15 June 2013 and numbered 28678.
- 6. Zero Waste Regulation was published in the Official Gazette No. 30829 dated 12 July 2019 and an amendment was made in the Official Gazette No. 31623 dated 09 October 2021.
- 7. Regulation on Control of Soil Pollution and Contaminated Sites by Point Sources was published in the Official Gazette No. 27605 dated 8 June 2010 and was last revised in the Official Gazette No. 28704 dated 11 July 2013.
- 8. Water Pollution Control Regulation, published in the Official Gazette dated December 31, 2004, with the latest amendment published in the Official Gazette dated May 12, 2023, with the number 32188.
- 9. Environmental Noise Control Regulation was published in the Official Gazette No. 32029 dated 30 November 2022.
- 10. The Regulation on Noise Emission in the Environment Created by Equipment Used in Open Areas was published in the Official Gazette No. 26392 dated 30 December 2006 and an amendment was made in the Official Gazette No. 30088 dated 06 June 2017.

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

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

- 4. Regulation on Health and Safety Measures in Working with Chemical Substances was published in the Official Gazette No. 28733 dated 12 August 2013.
- 5. Regulation on the Use of Personal Protective Equipment in Workplaces was published in the Official Gazette dated 02 July 2013 and numbered 28695.
- 6. Health and Safety Signs Regulation was published in the Official Gazette No. 28762 dated 11 September 2013.
- 7. The Regulation on the Vocational Training of Those to be Employed in Hazardous and Very Hazardous Class Jobs was published in the Official Gazette dated 13 July 2013 and numbered 28706, and an amendment was made in the Official Gazette dated 11 May 2017 and numbered 30063.
- 8. Dust Fighting Regulation was published in the Official Gazette dated 5 November 2013 and numbered 28812.
- 9. Regulation on Occupational Health and Safety in Construction Works was published in the Official Gazette No. 28786 dated 5 October 2013 and an amendment was made in the Official Gazette No. 30642 dated 31 December 2018.
- 10. Regulation on the Protection of Employees from Noise-Related Risks was published in the Official Gazette No. 28721 dated 28 July 2013.
- 11. The Regulation on the Procedures and Principles of Occupational Health and Safety Training of Employees was published in the Official Gazette No. 28648 dated 15 May 2013 and an amendment was made in the Official Gazette No. 30430 dated 24 May 2018.
- 12. The Regulation on Health and Safety Conditions in the Use of Work Equipment was published in the Official Gazette No. 28628 dated 25 April 2013 and an amendment was made in the Official Gazette No. 31754 dated 18 February 2022.
- 13. The Regulation on the Duties, Powers, Responsibilities and Training of Occupational Safety Experts was published in the Official Gazette dated 29 December 2012 and numbered 28512, and an amendment was made in the Official Gazette dated 6 July 2021 and numbered 31533.
- 14. Regulation on Occupational Hygiene Measurement, Test and Analysis Laboratories was published in the Official Gazette dated 24 January 2017 and numbered 29958.
- 15. Occupational Health and Safety Services Regulation was published in the Official Gazette No. 28512 dated 29 December 2012 and an amendment was made in the Official Gazette No. 31533 dated 6 July 2021.
- 16. Occupational Health and Safety Risk Assessment Regulation was published in the Official Gazette No. 28512 dated 29 December 2012.
- 17. The Regulation on Emergency Situations in Workplaces was published in the Official Gazette No. 28681 dated 18 June 2013 and an amendment was made in the Official Gazette No. 31615 dated 1 October 2021.
- 18. The Regulation on Suspension of Work in Workplaces was published in the Official Gazette No. 28603 dated 30 March 2013 and an amendment was made in the Official Gazette No. 29621 dated 11 February 2016.
- 19. The Regulation on the Duties, Powers, Responsibilities and Training of Workplace Physicians and Other Health Personnel was published in the Official Gazette dated 20 July 2013 and numbered 28713, and an amendment was made in the Official Gazette dated 6 July 2021 and numbered 31533.
- 20. Regulation on Health and Safety Measures in Working with Screened Vehicles was published in the Official Gazette No. 28620 dated 16 April 2013.
- 21. Regulation on the Protection of Employees from Vibration-Related Risks was published in the Official Gazette No. 28743 dated 22 August 2013.
- 22. Regulation on Supporting Occupational Health and Safety Services was published in the Official Gazette No. 28861 dated 24 December 2013.
- 23. Regulation on Occupational Health and Safety Boards was published in the Official Gazette No. 28532 dated 18 January 2013.
- 24. Regulation on Health and Safety Measures to be Taken in Workplace Buildings and Attachments was published in the Official Gazette No. 28710 dated 17 July 2013.

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

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

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

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

2.2 International Conventions

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

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

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

The Environmental and Social Standards (ESS) summarized in Annex II are one of the components of the World Bank Environmental and Social Framework, and they define the requirements for the project owner in terms of identifying and assessing environmental and social risks and impacts associated with projects supported by the World Bank. The applicability of the World Bank Environmental and Social Standards to the SREEPB Project is summarized in Table 2.

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

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

³ None of the activities carried out within the scope of this project will cause land acquisition, any restrictions on land use, or involuntary resettlement. All work will be conducted within existing buildings.

⁴ There will be no interaction with natural resources and/or biodiversity elements as a result of any activity conducted within the scope of the project.

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

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

Activities to be Conducted within the Scope of the **Project**

Summary technical information about the structural strengthening and energy efficiency works to be carried out in Gazanfer Bilge Student Dormitory located at Karamürsel/Kocaeli is given in Table 3 below. This ESMP; will be accessible to all stakeholders throughout the life of the project, at construction sites and on the project's website (www.kamuguclendirme.csb.gov.tr). In addition, in order to ensure that stakeholders participate in the meeting with sufficient information about the project before the information meeting, the draft ESMP will be disclosed on the official website of Kocaeli Youth and Sports Provincial Directorate at least 10 days before the meeting. A full-time environmental specialist, social specialist and occupational health and safety (OHS) specialist within the Contractor; an environmental expert, a social expert and an OHS expert will be employed within the Construction Control Consultancy firm. The Consultant, the Contractor and the Ministry's Project Implementation Unit (PIU) will be responsible for recording and answering the questions and opinions regarding environmental, social and OHS issues received by the stakeholders.

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

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





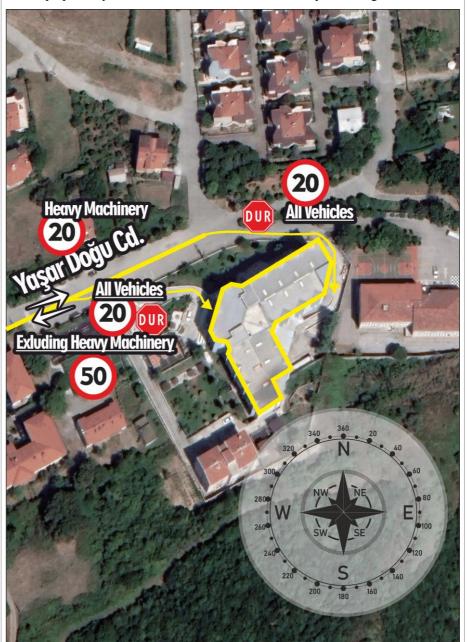
Figure 3-2: Gazanfer Bilge Student Dormitory View

It is expected that the soil around the buildings will be affected by construction activities during the implementation of the project activities (such as scaffolding installation, painting, exterior facade cladding, etc.). Necessary precautions will be taken to prevent hazardous chemicals from contaminating the soil during the work to be carried out in this area. The measures to be taken to manage the possible environmental and social impacts and risks of the project are given in detail in Section 5. No problems are foreseen in transportation to the project area. All infrastructure facilities required for the works, such as electricity, water, sewerage, natural gas and internet, are available.

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

- The project site is located within the boundaries of the Karamürsel district of Kocaeli province, approximately 800 m away from the Sea of Marmara. The majority of the retrofitting and renovation works will be carried out inside the building. However, the prevention of adverse effects on nearby settlements from construction activities in the project area is addressed in this Environmental and Social Management Plan (ESMP).. The area around the activity area is shown in Figure-4. Gazanfer Bilge Student Dormitory Building's major impact area resulting from the operations to be carried out within the scope of seismic retrofitting and energy efficiency includes Gazanfer Bilge Primary School and Secondary School for the Hearing Impaired. In addition, the Lodging building located near the project is expected to be affected by the construction process. Possible problems that may be encountered in waste management, such as the spread of excavation waste outside the construction site, and/or noise, dust, and vibration, may negatively affect those working/living in the buildings in question. Detailed information on the subject and precautions to be taken are included in Section 5. In addition, the Kocaeli Provincial Directorate of Youth and Sports/student dormitory management will be informed at least 7 days before each stage of the construction process (since the dormitory building will be evacuated before the retrofitting works begin, there will be no users in the building while the construction is ongoing). The construction schedule will be kept on-site, in a place where stakeholders can see it, and will be constantly updated throughout the
- The measured distances of the nearby buildings to the Gazanfer Bilge student dormitory are given below.
 - Gazanfer Bilge Hearing Impaired Primary and Secondary School (10 m)
 - Lodgings (10 m)
 - Karamürsel Municipality Grass AstroTurf Facility (40m)
 - Residential Kardelen Site (50 m)
 - Gazi Foundation Gazanfer Bilge Kindergarden 70 m
- Located close to the project area, Gazanfer Bilge Hearing Impaired Primary and Secondary School and the residences within its impact area are considered sensitive receptors, and the measures to be taken within the scope of the project to prevent these sensitive receptors from being affected by possible environmental and social impacts/risks are presented in Section 5 in detail as mentioned above. There is a full-fledged Karamürsel State Hospital 5 km away from the project site. Considering the traffic situation, transportation by car is approximately 8 minutes. This information will be taken into account during the preparation of OHS emergency action plans.

Considering the activity area and its immediate surroundings, it is not foreseen that there will be any problems during the transportation of the materials needed for construction activities. Access roads and rules are specified in the Traffic Action Plan. The traffic action plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the Community Safety and Traffic Management Plan will be prepared by the contractor before the construction process begins.



TRAFFIC ACTION PLAN

Figure 3-3: Traffic Action Plan

SEWAGE SYSTEM, ELECTRICITY, WATER NETWORKS, ETC. INFRASTRUCTUR E USED BY THE PROJECT

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

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

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

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

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

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

STAKEHOLDER ENGAGEMENT PROCESS

NATIONAL LEGISLATION AND PERMITS APPLICABLE TO THE PROJECT ACTIVITY (EG. SPP INSTALLATION ETC.)VB.) out before the field evaluation (determination of the need for structural strengthening, energy audit studies) was held in person on 30.03.2023 and general information was given about the technical details, purpose/targets and stages of the project. (Annex VI)

The first stakeholder participation meeting regarding the feasibility studies carried

STAKEHOLDER ENGAGEMENT PROCESS

Prior to the implementation of prepared and approved projects, a stakeholder briefing meeting was held on 08.03.2024, to provide information on the technical, social, and environmental details of the project by relevant experts, answer any questions from participants, and gather their feedback. The meeting was attended by the management and technical staff of the beneficiary institution, dormitory staff, resident students, the Principal of Gazanfer Bilge School for Hearing Impaired Students, the Director of Gazanfer Bilge Children's Homes, and PUB experts, totaling 42 participants (18 female, 24 male). (Participants and the consulting company's Social Specialist and Energy Systems Engineer attended in person, while 2 Social Specialists, an Environmental Specialist, and an Occupational Health and Safety Specialist from the Project Implementation Unit participated online.) (Annex VI)

Before the information meeting, this Environmental and Social Management Plan (ESMP) was disclosed for a period of 10 days on both the Project' website (kamuguclendirme.csb.gov.tr) and the website of Kocaeli Youth and Sports Provincial Directorate (kocaeli.gsb.gov.tr) to ensure accessibility for stakeholders. The ESMP will remain accessible to all stakeholders throughout the project lifespan, both on relevant websites and at construction sites. Additionally, printed copies of this ESMP were made available for at least 10 days in all buildings involved in the project for stakeholders' access..Details about the Grievance Mechanism established specifically for the project are presented in Section 4.

ISSUES AND CONCERNS RAISED BY BUILDING USERS

Building users at the information meeting regarding the feasibility studies held on 30.03.2023; They were informed about the structural retrofitting and energy efficiency renovation process and asked if they had any concerns, opinions, suggestions and/or questions regarding these possible activities. During and after this period (until the date of preparation of this report), there was no feedback from any stakeholder regarding the project, either written/verbally or through the project Grievance Mechanism.

Whether students and other building users have concerns regarding these studies was expressed during the stakeholder participation meetings held for the ESMP and was recorded in the stakeholder participation meeting minutes, and the opinions/suggestions and concerns of the stakeholders are included in the document.

INSTITUTIONAL CAPACITY DEVELOPMENT

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

4 Stakeholder Engagement and Grievance Mechanism (GM)

Stakeholder Engagement is an inclusive process to be carried out throughout the project lifecycle and supports the establishment of strong, constructive and responsive business relationships that are important for the successful management of the project's environmental and social impacts and risks. The Stakeholder Participation Meeting helps manage stakeholder expectations that will affect the management of risks, possible disputes and project delays by ensuring early, frequent and open communication throughout the life of the project. Therefore, a stakeholder engagement meeting regarding feasibility studies was organized on 30.03.2023, with a total participation of 40 individuals, comprising 19 women and 21 men, where general information about the project's reasons, objectives, and stages was provided (detailed information is given in Annex VI).

This project-specific Environmental and Social Management Plan (ESMP) will be disclosed on the SREEPB Project's (https://kamuguclendirme.csb.gov.tr/) and the official website of Kocaeli Youth and Sports Provincial Directorate (https://kocaeli.gsb.gov.tr/) websites throughout the project lifespan to ensure that all stakeholders are informed about how the project will be conducted on-site and to receive any objections or suggestions. It was also disclosed at the Gazanfer Bilge Dormitory on 23.02.2024. Following the completion of the display period, a Stakeholder Engagement Meeting was held again on 08.03.2024, where relevant experts provided information on the technical, social, and environmental details of the project, answered all questions from participants, and gathered their feedback. The meeting was attended by the management and technical staff of the beneficiary institution, dormitory staff, resident students, the Principal of Gazanfer Bilge School for Hearing Impaired Students, the Director of Gazanfer Bilge Children's Homes, and PIU experts, totaling 42 participants (18 women, 24 men). Details of the Stakeholder Engagement Meeting are provided in Annex VII.

Additionally, the Consultant prepared promotional materials(brochures, posters, etc.) for informational purposes and ensured their distribution to stakeholders.

The Grievance Mechanism, a significant component facilitating Stakeholder Engagement in the project, provides effective access to a procedure for those affected or involved parties to raise grievances. Grievances can be indicators of stakeholder concerns and may escalate if left unidentified and unresolved. Identifying and responding to grievance supports the development of positive relationships among project staff, local communities, and other stakeholders.

The Ministry of Environment, Urbanization, and Climate Change PIU has developed a transparent and comprehensive Grievance Mechanism (GM) specific to the SREEPB Project to receive, evaluate, and resolve grievances/opinions/suggestions that may arise during the activities carried out in public buildings within the scope of the SREEPB Project. This mechanism is designed to assist all relevant stakeholders in conveying their grievances/opinions/suggestions about the activities to the relevant individuals and institutions, thereby strengthening stakeholder participation in the project. The mechanism also enables all employees involved in the project (PIU, Consultant, Contractor) to submit their grievances/suggestions/opinions to the Ministry and the World Bank either anonymously or with open identification. The responsibilities of the Contractor, the consulting firm, and PIU are detailed in the Project Stakeholder Engagement Framework (https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894_paydas-katilim-cercevesimayis-final_20210521122305.pdf). Additionally, all parties involved in the project are obliged to implement the Project's Environmental and Social Management Plan, Stakeholder Engagement Framework, and Labor Management Procedure.

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

<u>a)</u> <u>Contractor Level:</u> Each contractor appointed to carry out construction works will be responsible for receiving, recording, and, if possible, resolving grievances /concerns/opinions/suggestions expressed by any stakeholder (building management, building users, visitors, local communities or beneficiaries, project staff, etc.) in accordance with the Grievance Mechanism Procedure. The contractor will ensure that all personnel involved in the project are aware that they can use the Grievance Mechanism (GM) and that grievances from staff will not be an obstacle to renewing their employment contract in the future.

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

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

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

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

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

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

Table 4-1: CİMER Communication Channels

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

https://giris.turkiye.gov.tr

Help Line : Alo 150

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

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

Table 4-2: GM Communication Channels

Call Center : ALO 181 Phone : 0312 586 4858

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

Grievance : https://kadevoneri.csb.gov.tr/oneri.jsp | Suggestion and grievance boxes installed in

buildings

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

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

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

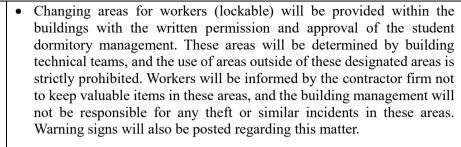
5 Environmental and Social Risks & Impacts and Precautions to be Taken

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

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

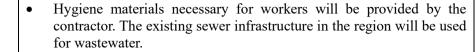
safety in the workplace - Failure to comply with national and defined international occupational health and safety requirements in the workplace;	 In areas where the underground natural gas pipeline passes, the Natural Gas Provider Company is responsible for the necessary work before the start of Phase II (Construction Phase) of the projects. All processes related to the Natural Gas Pipeline will be carried out by the Service Provider Local Distribution Company, and before the Site Handover, all necessary conditions will be created with all checks and tests completed entirely, and the delivery will be made as specified in the projects. For all processes related to the natural gas pipeline, the Property Owner must apply in accordance with the relevant legislation. Therefore, neither the Consulting Firm nor the Contractor will intervene in any way in the natural gas pipeline. The Contractor shall immediately inform the MoEUCC in the event of a significant incident. MoEUCC will report all types of significant incidents (such as accidents, leaks, deaths, etc.) to the World Bank within 48 hours and will submit an incident investigation report along with a corrective action plan to the World Bank within 30 business days. Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in compliance with national laws and regulations and the requirements of the World Bank standards. Health and safety measures and environmental measures related to the restructuring of the public building will be detailed in the project-specific Waste Management Plan and Occupational Health and Safety Plan has been prepared by the consultant. All work will be carried out in accordance with the measures determined in the OHS Plan. The Contractor company will prepare its own OHS plan for the work it will carry out, taking into account the Occupational Health and Safety (OHS) Plan prepared by the Consultant. Before construction work begins, a Risk Assessment study will be conducted for all tasks to be performed. Relevant procedures and plans, 	Consultant PIU Contractor
	including Risk Assessment, safety procedures, training, monitoring, case	Consultant

	T
investigation, and reporting, as well as Emergency Plans, will be included in Health and Safety Plans (Health and Safety Plans, prepared by audit consultants and developed by contractors by adding site-specific risk assessments, procedures, instructions), (including Asbestos Work Requirements and Precautions presented in Annex-8 of the ESMF (https://webdosya.csb.gov.tr/kamuguclendirme/menu/SREEPB-p175894_csyc_final100521mayis_20210510070430.pdf -) such as the Asbestos-Containing Structure Dismantling Procedure.	Contractor
• Proper signage will be used on construction sites to inform workers of basic rules and regulations they should follow.	
• Occupational Health and Safety (OHS) training will be provided to employees, identifying potential risks related to the work site and tasks, and weekly and monthly site safety meetings will be conducted.	
• 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 student dormitory management.	



- Toilet needs for workers will be addressed through building infrastructures with the written permission and approval of the student dormitory management. In case the existing infrastructure cannot be used, WC containers with all necessary hygiene materials will be provided by the contractor. However,
 - Employees will be able to use the toilets allowed/allocated for them in the building. The contractor will inform their employees about which toilets are allowed/allocated based on the number of employees. Monitoring and control regarding this restriction will be the responsibility of the contractor.
 - The contractor will educate their employees on the proper use of these toilets in compliance with hygiene rules, and if any misuse is detected, the cleaning responsibility will be on the contractor.
 - The contractor will provide all necessary materials for hygiene that employees may need.
- The contractor will provide work uniforms that display the project name to easily distinguish the employees.
- Employees are strictly prohibited from engaging in discussions with building technical units and campus users for any reason. In case of any problems related to individuals or activities, employees will immediately report three situations to their supervisor (The responsible supervisor's contact information will be provided to all employees by the contractor). The contractor will document and report such situations

to the consultant. Any decision/action related to this process will be carried out in accordance with the knowledge and approval of the building management.
• If necessary, approval from the building management will be obtained for night work. All activities will be conducted in accordance with both the Occupational Health and Safety Law (Official Gazette dated June 30, 2012, and numbered 28339) and the relevant regulations, as well as the Environmental, Health, and Safety (EHS) Guidelines of the World Bank Group (WBG).
• In the event of any epidemic or pandemic/infectious disease, guidance, guidelines, and recommendations provided by the Ministry of Health, Ministry of Labor and Social Security, and the World Health Organization will be followed. All relevant measures for occupational health and safety for both employees and workplaces will be implemented.
• Entry of third parties without a specific role in the construction site will be prevented.
• The names of personnel who will be on duty at the construction site, along with the necessary training certificates, will be submitted to the Consultant in a list. Employees with appropriate training and personal protective equipment will enter the construction site with identification cards.
• Individuals under the age of 18 will not be allowed to enter the construction site.
Smoking areas on the construction site will be determined by the contractor.
• Eating, drinking, break/rest, toilet, and sink facilities will be provided in designated areas within the building where the work is being carried out, as indicated by technical units. This information will be communicated to the student dormitory management. Workers involved in the project will not leave the allocated areas.



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

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

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

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

		 emphasize that all contractor employees should pay attention to these aspects in their relationships and communication with each other. Measures will be taken to prevent the spread of infectious diseases (including sexually transmitted diseases and infections such as HIV) and non-communicable diseases arising from the performance of construction works. In this context, particular attention will be given to the awareness that different groups of the community, especially vulnerable and fragile groups, may be at varying levels of risk. Preventive and mitigating measures will be implemented to address the spread of infectious diseases that may arise from temporary or permanent labor mobility associated with the contract. 	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	b) OHS Possible adverse health effects on workers, facility users, children, and the general public due to asbestos fiber and dust emissions during the removal, transportation, and final disposal of asbestos layers	 The project site will be illuminated throughout the night. No waste will be disposed of in the surrounding area, and this area will be kept clean. Waste must be collected and removed from the construction site. Any broken glass during the process will be immediately cleaned. Work areas will be separated from inhabited areas of the building using physical barriers. All procedures related to asbestos are outlined in Appendix-8 of the Environmental and Social Management Framework document. The work will be carried out in accordance with the requirements of Annex 8 and the Regulation on Health and Safety Measures in Work with Asbestos and other relevant legislation. Additional cleaning will be added to the building's cleaning schedule to eliminate the excess dust and dirt generated by the demolition work. To minimize the risk of misuse, leaks, and accidental human exposure, the storage, transportation, and distribution of hazardous materials will be carried out in accordance with safety guidelines. Old windows and doors will be temporarily stored in a secure location designed to prevent unauthorized access. 	Contractor

	 Regular maintenance will be conducted on vehicles to minimize the risk of accidents due to equipment failure or early breakdowns. Both training sessions and incidents (such as fatalities, lost-time accidents, leaks, fires, etc.) will be documented. In the event of a significant incident, the contractor will immediately inform the MoEUCC. The MoEUCC will report any significant incident (such as accidents, leaks, fatalities, etc.) to the World Bank within 48 hours and submit an incident investigation report, along with a corrective action plan, to the World Bank within 30 working days. 	
	 The contractor will be responsible for the safety of all personnel and individuals within the construction site from the moment construction work commences. 	
	• In the event of any damage occurring during construction work, the Contractor will compensate for all damages incurred by the Beneficiary Institution, Employer, and/or third parties.	
	 During the works, the safety regulations of the Ministry of Labor and Social Security of the Republic of Türkiye and the rules of the Ministry of Health will be taken into consideration. The relevant regulations will be used as a general reference during the construction. 	
c) Safety	• The Contractor will have qualified personnel specifically responsible for safety and protection against accidents on the site. This person will be responsible for the Contractor's entire workforce and labor, as well as the Project Manager, the employer's personnel on the site, equipment, offices, and other facilities. This individual will possess the necessary qualifications for the job, have the authority to give instructions, and be capable of taking all necessary measures to prevent accidents. The Contractor will establish a dedicated team for this purpose.	Contractor
	• The Contractor will take all necessary safety precautions to ensure that the materials and equipment to be used in the spaces where construction will take place are not damaged.	

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

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

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

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

•

Excavation, and Debris Wastes:

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

Waste Batteries and Accumulators:

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

Hazardous Wastes:

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

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

		 Waste that cannot be recycled will be collected in sealed sanitary waste bins, and it will be sent to the sanitary landfills through the Sariyer Municipality's solid waste collection system. Asbestos: If asbestos is present on the project site, it will be clearly marked as a hazardous material. In the case of asbestos being present on the project site, it will be properly stored and sealed to minimize its impact. When asbestos removal is necessary, a wetting agent will be used to keep asbestos dust to a minimum before the removal. The entire procedure to be applied regarding asbestos is included in Annex 8 of the Environmental and Social Management Framework document (https://webdosya.csb.gov.tr/db/kamuguclatma/menu/kadev-p175894 csyc final100521mayis 20210510070430.pdf). The Contractor will act by the content in question. If asbestos material needs to be temporarily stored, the waste should be kept in secure containers and properly labeled. Security measures will be taken to prevent unauthorized removal from the site. Removed asbestos will not be reused and will be disposed of in accordance with national regulations and sent to licensed facilities. Necessary documents for transportation and disposal of the material will be kept at the construction site and will be presented to the MoEUCC and the World Bank if requested. Paints containing toxic components, solvents, or lead-based paints will not be used. 	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency	e) Pollution Prevention	 Site-Specific Pollution Prevention Plans, if necessary, will be reviewed and approved by the PIU. Regular site inspections will be conducted by the PIU and the Consultant to ensure that all construction activities are carried out in 	PIU Consultant Contractor

Improvement in Public Buildings	Demolition and construction activities	compliance with national laws and regulations as well as the requirements of the World Bank ESF.	
	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.	
		• 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.	Yüklenici
		In case of any hazardous substance or hazardous waste leakage, leakage prevention methods will be applied to limit the exposure area.	
		Leak kits will be placed at appropriate points on construction sites.	
		• In the event of any leakage, workers who will respond to such incidents will be identified and trained in emergency response to leaks.	
		Training records will be maintained at construction sites.	

Renovation and 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 ESHP requirements.
- Noise during demolition and construction will be limited to specified periods as determined in the permit.
- During activities, the motor covers of generators, air compressors, and other electrical/mechanical equipment will be closed, and they will be placed as far away from residential areas as possible.
- Throughout the construction phase, the motor covers of generators, air compressors, and other mechanical equipment will be kept closed, and the equipment will be placed as far away as possible from student areas and other buildings on the campus not included in the project but located on the campus. The use of plastic wedges is mandatory for all such equipment to prevent excessive noise due to vibration. This should be considered in the selection of equipment.
- Impact noise resulting from construction activities will not exceed 100 dBC in the LC Max noise indicator as specified in the Environmental Noise Control Regulation. For occupational health and safety, the World Health Organization (WHO) has set exposure levels to noise at 70 dB within a 24-hour period and 85 dB for a 1-hour period to prevent hearing impairment. Additionally, the World Bank Environmental, Health, and Safety Guidelines Table 1.7.1 stipulates that noise levels should not exceed 55 dB between 07:00-22:00 and 45 dB between 22:00-07:00 for residences/educational institutions and public institutions (https://www.ifc.org/content/dam/ifc/doc/2023/ifc-general-ehsguidelines.pdf). This will be taken into account during site inspections.
- Following the start of construction, noise levels will be measured once indoors and outdoors by accredited laboratories during the demolition process and the necessary precautions will be determined as a result of the measurements. If measurements exceed the levels permitted by legislation, 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.

Contractor

Site assessments will be conducted according to the Environmental Noise Guidelines for the WHO European Region.	
• If there is an increase in the noise level during the construction phase, measures will be taken to ensure that machines are not operated simultaneously.	
• The work schedule of works that create high levels of noise will be planned in coordination with people in nearby buildings.	
 Necessary communication will be provided with the public in the nearest settlement in order to determine the impact of noise that will occur during construction works and to take the necessary precautions. 	
Measures such as using new model vehicles as much as possible will be taken to minimize noise levels.	
• The unnecessary use of horns and sirens by vehicles transporting machinery, equipment, materials, and personnel within the scope of the project is prohibited. This rule applies to both within and outside the campus. Contact numbers will be provided on vehicles to address and resolve grievances related to such issues.	

Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	g) Air Quality/Emission:	 Debris will be kept in a controlled area, and water will be sprayed to reduce dust from the debris. (Water will be provided from the campus infrastructure. In case of prolonged water interruptions, water tankers may be used for supply.) Following the start of construction, dust measurement will be carried out once by accredited laboratories indoors and outdoors during the demolition process. The principles for preventing air quality problems occurring during demolition activities will be determined in the Construction Methods (which will be prepared by the contractors and approved by the PIU). Renovation and retrofitting works will mainly take place inside buildings. Dust generated during scraping and stripping operations will be suppressed by continuous water spraying. In case of debris generation, a debris chute will be used after the first floor. The surrounding environment (sidewalks, roads) will be cleared of debris to minimize dust. Open burning of construction materials/waste substances will not be allowed at the construction site. Construction vehicles at the construction site will not be idled for an excessive period. When material needs to be transported, truck tops will be covered. The speed limit for such vehicles within the campus is set at 20 km/h. All vehicles to be used will have exhaust emission permits, and regular maintenance will be conducted on all vehicles or monitored for maintenance. Efforts will be made to minimize the storage or disposal of waste 	Consultant Contractor
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency	h) Water Quality Uncontrolled disposal of wastewater/waste generated at the	 Efforts will be made to minimize the storage or disposal of waste generated on the construction site. Since the campus is 800 m away from the sea, it is not expected to have a negative impact on surface waters. 	Consultant Contractor

T	I		
Improvement in Public Buildings	construction site can affect the coastline.	• Construction vehicles and machinery will only be washed in areas where surface runoff will not contaminate natural surface water bodies.	
		• The disciplined implementation of waste management mentioned in previous sections is necessary.	
		• All hazardous chemicals (including contaminated waste) will be stored in temporary storage areas that meet leakproof requirements.	
	i) Soil Quality	• 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.	
	The mixing of 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.	
		• Contractors will obtain the necessary permits from building authorities to use water from the public network for construction activities. In case of any issues with obtaining permits, water will be brought to the construction sites using tankers.	
Renovation and Retrofitting Works for Seismic Resilience and Energy Efficiency Improvement in Public Buildings	j) Required Resources	• Concrete will be sourced from locally licensed ready-mix concrete facilities.	Contractor
		 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. 	Contractor
		• 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	 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. Trained and visible personnel will actively manage traffic on the construction site to Construction sites will be surrounded by health and safety signs to 	Consultant Contractor Consultant
		 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 	Contractor

will be provided to the building technical units, and approval will be sought.	
 Construction sites will be separated and secured with warning/caution tapes to ensure safety. 	
 All types of vehicles operating during construction will be required to adhere to the specified speed limit. 	
• The surroundings and surroundings of the project site will be arranged with traffic signs and warning signs. The Traffic Action Plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, the security-related measures to be taken will be specified in more detail in the Community Safety and Traffic Management Plan that the Contractor will prepare before starting work.	
• Visibility of the project site will be ensured.	
• Pedestrian paths and vehicle thoroughfares within the site will be separated from each other. These paths will be incorporated into the traffic plan.	
 Local community, building visitors, and users will be informed about potential hazards and risks through warning signs and informational meetings. 	Consultant Contractor
 Users and other stakeholders will be informed about the measures to be taken in case of any outbreak, including the precautions taken, through appropriate media and printed materials and signs in accessible areas for the public (including work areas). 	
• Pedestrian paths and vehicle thoroughfares within the site will be separated from each other. These paths will be incorporated into the traffic plan.	
• Activities that will affect regional traffic will be planned considering peak traffic hours as much as possible. All drivers involved in the project will be informed about road safety, speed limits, traffic rules to be followed during the project, and conditions to be observed.	

		 The weights of all vehicles used in the project will not exceed the limits specified in the relevant legislation. In the event of hazardous chemicals or waste storage on the site, the transfer of these wastes will be carried out by licensed carriers in a manner that does not pose a threat to public health. Special loads will use routes prepared in agreement with the relevant authorities. The specified routes will be programmed to prevent traffic congestion on the roads and will be published in advance to prevent possible inconvenience. All traffic organization will be discussed and planned in coordination 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.). 	Relevant beneficiary institution

		Keeping records related to the Main Design Project and relevant project documents for easy maintenance and renovation of any part of the building.	
Throughout the project lifecycle	(Suggestion, Grievance, Opinion)	 collected at the site level by the responsible employee of the Construction Contractor through the forms provided in Annex III and Annex IV. These grievances will be recorded and submitted to the administration. Grievances will be closed using the Grievance Closure Form provided in Annex V. The site supervisor of the Contractor will be provided with training on the operation of the Grievances Mechanism by the Social Specialist of the Consultant firm. 	
		 Corrective actions will be taken within 15 working days for grievances/opinions/suggestions collected under the project, and if the grievance period exceeds 15 days (the grievance period will not exceed 30 calendar days), this matter should be agreed upon between the Contractor/PIU and the complainant. At the end of the process, the applicant will be informed that the request has been closed. In cases of gender-based violence, sexual abuse, and harassment, proceedings will be conducted in accordance with the principle of confidentiality, taking into account the possibility of retaliation. 	PIU Consultant Contractor
		 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 	

the Administration and/or the World Bank following the process in GM outlined in the Labour Management Procedure for SREEPB Project.	
• The Contractor will announce the contact information specified in this report for the collection of suggestions and grievances using information boards allocated to the outside and inside of the buildings (at least one for each floor).	
• The principles for receiving feedback are explained under the "4. Stakeholder Engagement and Grievance Mechanisms" title of this document.	

6 Environmental and Social Monitoring Plan

Table 6-1: Environmental and Social Monitoring Plan

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Renovation and St	trengthening Worl	ks Site Preparation A	ctivities		
Community Health and Safety Management and Implemented Protective Measures	Around the project site	Visual Inspections Site Inspection Availibility 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
Occupational Health and Safety (OHS) protection measures for construction site workers	Project site and buildings near the project site	Visual Inspections Site Inspection Availibility 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

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
To avoid and minimize safety and health risks for individuals affected by the project	In the building and at the project site	Visual Inspections	At the beginning of the renovation/strengthe ning work and continuously every working day	Preventing Post Activation Potential (PAP) injury due to inhalation of asbestos fibers or other construction dust.	ContractorConsultant
The start and completion time of Renewal/Strength ening works, especially the removal time of existing parts containing asbestos	At the project site	Site Inspection Review of document records Visual Inspections	Every day (In case asbestos is detected)	To avoid environmental, health, and safety risks Compliance with the Regulation on Health and Safety Measures in Asbestos Work	ContractorConsultantAsbestos RemovalSpecialist
Renovation and St	trengthening Cons	truction Works	1	1	1

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	ContractorConsultant
Noise	Project site Buildings near the project site	Visual control of the implementation of established noise abatement measures, including declarations of methods followed Monitoring at the nearest building receiver points with a noise-measuring device Site inspections Measurements to be carried out in case of grievance	Every working day during construction activities	Minimizing noise to avoid negative impact on local communities and the environment Compliance with Environmental Noise Control Regulation	ContractorConsultant

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

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

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

What parameters will be monitored?	Where parameters will be monitored?	How parameters will be monitored?	When parameters will be monitored (measurement frequency)?	Why parameters will be monitored?	Responsibility
Stakeholder engagement	Kocaeli Karamürsel Gazanfer Bilge Student Dormitory Building	Number of Stakeholder Engagement Meeting participants (by gender distribution) Promotional materials related to the project (announcement posters, webcasts, etc. control)	Daily	Fulfillment of grievance mechanism requirements.	PIUContractorConsultant

Grievance Mechanism	Project site • Buildings near the project site	Grievance and Suggestion Forms Grievance Close-out forms Total number of grievances (pending/resolved and broken down by gender distribution) Number of grievances received Number of resolved grievances Grievance Log Availability of announcement posters regarding the Grievance Mechanism (GM) The physical condition of suggestion and grievance boxes	Weekly (During the life of the project)	Environmental Social Management Plan (ESMP) Grievance Mechanism (GM) Stakeholder Engagement Framework (SEF) Stakeholders who are directly or indirectly affected by the project can bring forward their grievances/opinions/suggesti ons regarding project activities, contribute to the project and benefit from the project at the highest level.	ContractorConsultantPIU
------------------------	---	---	---	---	---

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/Retrofitting Works Operation 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	Gazanfer Bilge Student Dormitory
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	Gazanfer Bilge Student Dormitory

7 Duties and Responsibilities

Table 7-1: Task Distribution List

RESPONSIBLE PARTY	RESPONSIBILITY
MoEUCC /PIU	 Implementation and monitoring of the project, and utilization of funds. Employment of at least one full-time Environmental, Social, and Occupational Health and Safety (OHS) expert. Conducting necessary correspondence with official authorities and ensuring follow-ups. Supervising and ensuring compliance of Environment and Social Management Plans (ESMPs) with both national regulations and WB policies specific to the project. Presenting the prepared ESMPs to the WB after relevant checks. Establishment of a Grievance Mechanism. Organizing and conducting project informational meetings. Employment of a suitable expert for the Environmental and Social Monitoring Program. 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,

	agout Training (LOTO), Work Permit System Training, ion of Cultural Assets)
Employing expert. Appointing compreher OHS Plan. Implement attached to Implement documents Updating I during the Preparation account the activities of intervals (of Preparation established) Examination implement relevant surpollution in Occupation construction Preparing Preparing Preparing Applying distribution Establishing	g at least one full-time Environmental and one full-time OHS g an experienced Environmental and OHS Officer for the nsive management and monitoring of the site-specific ESMP and ting laws, regulations, and rules related to ESMP and OHS Plan the tender documents as defined by the Consultant. ting relevant laws and regulations mentioned in the tender appropriately. ESMP and OHS Plan content in coordination with the Consultant implementation of ESMPs and OHS Plan in the field as necessary. In of the OHS Plan for the activities to be carried out, taking into the OHS Plan prepared by the Consultant, Monitoring the field defined in the ESMPs prepared specifically for the project at regular daily, monthly, etc.), In of the Community Safety and Traffic Management Plan the Grievance Mechanism in compliance with GM Procedure of the the ESMP prepared by the Consultant, commitment to the it or preparation of the Contractor ESMP by the contractor and sub-management plans of the ESMP (e.g. Waste Management Plan, Prevention Plan, Community Safety and Traffic Management Plan, pal Health and Safety plan, etc.) and preparation of work-specific con/application methods, the Random Finding Procedure if deemed necessary. ESMP progress reports for MoEUCC.'s review. to the authorized energy distribution company and local gas in company depending on the works to be carried out. The temployee Grievance Mechanism detailed in the Labor tent Procedure before any construction work starts and ensuring its

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

8 Reporting

The details regarding the reporting requirements of the project are presented within the Environmental and Social Management Framework disclosed on the website of the SREEPB Project (https://kamuguclendirme.csb.gov.tr). A summary of this information is provided in Table 7.

Table 8-1: Reporting Process Requirement List

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

Annex I: Solid Models of Building Considered within the Scope of the Project





GAZANFER BİLGE STUDENT DORMITORY

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

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

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

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

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

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

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

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





Annex III: Suggestion & Grievance Form (Internet)

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

	KAMU BİNALARINDA DEPREM DAYANIMI ve ENERJİ VERİMLİLİĞİ PROJESİ (KADEV)
	ŞİKAYET / 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	SEIS	MIC RESILIENCE	AND ENERGY	'EFFICI	ENCY
REPUBLIC OF TOURIET MINISTRY OF FOURIER URBANIZATION AND CLIMATE CHANGE		IN PUBLIC BI	UILDINGS PRO	JECT	
ORBANIZATION AND CLIMATE CHANGE		(SREE	PB PROJECT)		
		GRIEVANCE	/ SUGGESTION FORM	Л	
		BOGA	ZICI UNIVERSITY		
ID Number					
Name					
Surname					
Province	İstanbul				
Choose the building:	Indoor Swimming Pool	New Geophysics Build	ding 🔲 Indoor Sports H	lall	Superdom (Car park)
Choose the building:	1st Student Dormitory	SFL Block A	SFL Block B	[Social Facility & Dormitory
Your grievance					
Your disability, if any:	Blind	☐ Deaf	Physically disabled	Other	None
For return:	E-mail	Phone	☐ Don't want		
E-mail					
Phone					











Annex V Grievance Closeout Form

The Grievance Closeout Form is presented to your attention below.

Grievance Closing Number		
Description of immediate action required:		
Long-term action description (if necessary):		
Is compensation required?	[]YES []] NO
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.	signed by the complainant after re	eceiving the compensation
Notes:		
History:		
Complainant:		











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

Project

WB/CS-DESSUP-01

Code

-

Date

30.03.2023

Building Name

KOCAELI KARAMÜRSEL GAZANFER BILGE

KYK DORMITORY BUILDING

Start | End Time 10:00 | 11:04

AnnexVII/Table-1: Meeting Agenda

START TIME	END TIME	ACTIVITY
10:00	10:05	Meeting kick-off speech
10:05	10:10	Within the framework of the Law on the Protection of Personal Data, general information was provided regarding the meeting recording and the processing of personal data. There are no participants who oppose the meeting recording.
		 As of 10:10, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.
10:10	10:20	Information was given about the SREEBP project and its objectives.







		Image 1 PRESENTATION FILE SHARED SECTIONS_01
		PROJECT Supplied Search (and production and the state of the state
10:20	10:27	 The general stages of the SREEPB Project have been explained. Information was given about the plans and their contents to be prepared together with the project and tender documents. Environmental and Social Management Plan; It has been explained that it will determine the environmental and social impacts of the project and include the risks and the actions to be taken to eliminate the risks. Occupational Health & Safety Plan It has been stated that the occupational health and safety risks related to the manufacturing stages will be determined and the measures to be taken for their elimination will be defined. Stakeholder Engagement Plan was explained as the documents that will describe the stakeholders who will be directly or indirectly affected by the project and how much information these stakeholders will be informed about the project and project processes, and how feedbacks (suggestions, grievances, etc.) will be collected, examined and answered. The importance of stakeholder engagement was mentioned. It was stated that the details of the communication will be announced at the end of the presentation.







		Image 2 PRESENTATION FILE SHARED SECTIONS_02
		CENEL ASAMALAR Tocalital binolarun mercut durumlan, yerinde yaplon tehnik incelemeler neticesinde behirersechter. Pågssal fiziblike, aregi vermitigi kristiken) - Bina yapusal dorok komto elelisesik, standartlara uygun bispinde numuneler (sonda), konot, galik numunea kib, olimono, numune tell sonacipan va yerinda yapun bispinde numuneler (sonda), konot, galik numunea kib, olimono, numune tell sonacipan va yerinda yapun bispinde numuneler (sonda), konot, galik numunea kib, olimono, numune tell sonacipan va yerinda yapun bispinde palameter (sonda), konot, galik numunea kib, olimono, numunea kib, olimono, numunea kib, olimono, numunea kib, olimono, numunea kib, olimono diretti kibin proja & ihale doktimanlannan hazidanacoktri. - Bina aregi kibinderi kemi elelisene, kibinderini elelisene deligener delista elelisene kibinderin elelisene diskerini et ellisene deligener delista olimono. - Bina aregi kibinderin elelisene diskerini et ellisene deligener delista olimono belirlesen referors deglerier uzerinden kyadianacok, genel enerji performors seviyeleri tannilanacoktri.
		GENEL ASAMALAR Proje & thode doktimantan ile britiste; - (exceed Sograf) destremit Plantan (Projem genreal ve soyol etilerir belirenceit, riskler ve niklerin betrarbit, in hystog ogrificeted yelmet framiliaraccitis) - (is Sogle) & Glavetim Plantan (India or in sogle) ve giverligi nikleri belirenceit, ve betrarti (in alarmas gredere framiliaraccitis) - Payda (Kalah Plantan (Projed) etileri ve dolget etilenceic poydejbur ve siz konzus poydejam proje ve proje uniqueli nikleria belirenceit poydejbur ve siz konzus poydejam proje ve proje uniqueli nikleria belirenceit (lavar, elayate sl.) and topdanaccij, endereceij ve evroplanaccij turf editecellar) **Naziranoscaltur.** **OENEL AŞAMALAR** Covre, Sahrelik ve likim Değşişkiliğ Bakanlığı tardından gerçekleşirilen inde neticesirde belirenen yüklenci firmadası teksi gollen portorn taramının (çovresi soyol sindi ordanacci) ve belirencei (lavar, elayate sl.) and topdanaccij, endereceij ve evroplanaccij turf editecellar) **Naziranoscaltur.** **OENEL AŞAMALAR** Covre, Şahrelik ve likim Değşişkiliğ Bakanlığı tardından gerçekleşirilen inde neticesirde belirenen yüklenci firma (lar) tardından hayata geçirlinen projeterin mişavrilik süreci. **Bir özelek ogornada belirikov ve yüklerid firmadası teksi gollen pizrionn taramının (çovresi soyol indelation) işin ildəri genelatimlerin deği oyn zananda bu plarianı vygularmasına lışlın süreçleri de kapsanacıtındır. **Bir özelek ogornada belirikov ve yüklerid firmadası teksi gollen pizrionn taramının (çovresi soyol indelation) işin ildəri genelatimlerin deği oyn zananda bu plarianı vygularmasına lışlın süreçleri de kapsanacıtındır.
10:27	10:31	 It was explained that the tests and studies to be carried out for the soil survey to be carried out in order to determine the ground condition and these studies will be carried out according to the characteristics of each building. It was stated what stakeholders and employees should do for occupational health and safety. It has been explained that the professional competence of the employees will be questioned. Possible environmental effects related to soil survey, precautions to be taken and considered in this regard were stated. The possible social effects of the ground survey, the precautions to be taken and the things to be considered about it were explained.







2023

Image 3 PRESENTATION FILE SHARED SECTIONS 03 ATLASCORT TITLE ATLASCOT TITLE YAPISAL FIZIBILITE YAPISAL FIZIBILITE ZEMIN ETÜDÜ-ZEMIN ETÜDÜ; Arcstman cylukru (her bir yapı için en az l adet), jeoftalik serim (her bir yapı için en az 2), 30m derinikte sonda) (2-15 ad. aras) ke zemin durumu belirlenecek ve raportanacıldır. Her bir yapı için bu kapsımda gerçekleştirilecek test, sondaj sayılan belirlenriiştir ve bina teknik birrilen ile poylaştiraştır. Bu kapsamda gerçekleştirilecek test & numune sayılan aşağıdadır; ALASCAL BILL ATLASCORT TITLE İŞ SAĞLIĞI GÜVENLIĞI Zemin otüdüne iliştirin risk analizi gerçekleştirilmiş, <u>iş seğliği ve güvenliği planları</u> hazırlarmış ve çalışanlara aktanlmıştır, Paydaşlarmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular sunlardır: İŞ SAĞLIĞI GÜVENLIĞI – ÇALIŞANLAR Çalışarıların tamamı ayağıda belirlini ve kerdlerine tesim edilen lejisel konyucu domanınların daşirini şekilde kıllarımatla yükumüdür. Soz konsuz domanınları uygun şekilde taşımayan/kıllarımayıların çalışarılarının zin verilmeyocedir. Cackle sondiaj makinesi, kompon monferi lie sondia, raktalasma fietileceletr. Siza korusu komponlami kullonim, maraverion anema oka limanini zoaro përmemesi için zame hellorë di prida (20m) den rada pokrajimano generieredeletil filomom per a prodimerem za cella min se samo 20 inti di 1. Sondia (Jusiemi ni Salaminas encanaca, kulle etisi idon kinde de limanini, cilipa dollarmi ib. altradiginalme mon olumentati. Sondia (Jusiemi ni Salaminas encanaca, kulle etisi idon kinde bio elemoriorimi, cilipa dollarmi ib. altradiginalme mon olumentati. Sondia gliemi goplani alana 20 mil etis idon yakiqalmanas gerelimelitedir. Burun tessi için çalama Salamini ilipa serieli kinde ilipa della serieli kinde ilipa se Borot - TSEN 397+AL Kulak Tikaci - TS EN 352-2 Koruyucu Gözlük - TS EN ISO 16321-3 Genel Amaçlı İş Eldiveni - TS EN ISO 2/420 İş Ayakkabısı - TS EN ISO 20347 Sondaj işlemi evnandı gevredelli teirik kadroların tazdan etklenmemesi için yarım yüz maskesi kullarım önenlir. Yanım Yüz Maskesi - TS EN 140 Paraşut Tipi Emniyet Kemen - TS EN 361 (Sadece So Sondaj işlemi esnasında gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle çevredek bireylerin konsantrosyonlarının olumsuz yande etiolenmesi muhtemeldir. Çalışma sonrasında araştırma çukurları ve sondaj delikleri kapatılacaktır. Bu suretle takılma, düşm riskleri bertaraf edilmiş olacaktır.







Kamu Binalarında Deprem Dayanımı

		erji Verimliliği Projesi
		PANGON' HILL
		S SAĞLIĞİ GÜVENLĞİ – ÇALŞANLAR Ad durumlarda çalgardam nolanacağı bölgələr, deprom riski do dikkate oluncuk belikermiş ve variyet planlarında gösterilmişir. Sondoj galşmalanı yeldi Sandeller trasfindan gerçekleştirlecekiri. Sondoj solarından ve elezerilmi, kultarak ve din ve yer ustarın deşti kamarlarında sonda bisanyı hartik, anda kyusu oprava ve runu elma git işlemler yapan kruseki. Sondoj malane ve elezerilmi, kultarak yapan krusekiri. Sondoj malane ve elezerilmi, kultarak yapan krusekiri. Sondoj malane ve elezerilmi, kultarak yapan krusekiri. Sondoj malane ve elezerilmi, kultarak yapan krusekiri. Sondoj malane ve elezerilmi, kultarak yapan krusekiri. Sondoj malane ve elezerilmi, kultarak yapan krusekiri. Sondoj malane ve elezerilmi, kultarak yapan krusekiri. Sondoj galşmalanı yapıldı Sandeller trasfindan gerçekleştirlecekiri. Sondoj galşmalanı yapıldı Sandeller trasfindan gerçekleştirlecekiri.
		CEVRESE ETICIER Zomin attalizare lightin alors genesed athliar va almoss genelon ánlamfar blátin calcandrar subrandar. 4. Sondia glain alors genesed athliar va almoss genelon ánlamfar blátin calcandrar subrandar. 5. Sondia glain anoman grandia milk amb étaith first project en francis particular. 6. Sondia general primit a milk dand étaith first fill surviyalent a laghan formatica plantar de them subrandar. 6. Sondia general primit man de and étaith subrandar subrandar. 6. Sondia gelamadoran nou very seg le moi securative veg le moi securative veg le moi securative de la destructurados de defendant de la sondia de la destructura
10:31	10:34	Detailed information was given about building structural support, destructive and nondestructive testing, and the process was explained. Information was given about determining the material and observations. Image 4 PRESENTATION FILE SHARED SECTIONS_04
		Andrew IIII
		YAPISAL FIZIBILITE BINA TAŞIYICI YAPISI, TAHRIBATSIZ MUAYENE - Bina zarimində oraşımın çukurları oqularak teriləri yapıları olduruk teriləri yapıları oğularak teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları oğuları teriləri yapıları teriləri yapıları oğuları terilə







KADEV	
Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği Projesi	

		YAPISAL FIZIBILITE Bina Taşiyik'ı YaPisi Tahribatsiz Muayene Bina zerimi/fernek kortrolok jerix hernek kolnikgan bir miktor dihro infelocek derinlide yaktapık (ö.5m² yazay olanı) araştıma qukur ayara qukur görnel olarak kontrolla gerix hernek fizibili bir enginek ke kiyanları Aşılan yaktır görnek yapını bir enginek ke kiyanları ayara görnek yapını gördenleri ve runruna foqulit. **Capital FIZIBILITE** Bina Taşiyik'ı YaPisi Tahribatsiz Muayene Taşıyını yapış gördenleri ve runruna foqulit. **Capital Regional yapış gördenleri ve runruna foqulit. **Capital Regional dukulin bir bir suğuyetlerinlerinen işinde ye atlan idorealiları (derine) torunruna dukulinleri ve oraldırı derinek dedinileri edilerinlerinen görde. **Dirit suğuyetlerinlerinen işinde ye atlan idorealiları (derine) torunrun dukulinleri ve oraldırı dedinileri edilerinleri edi
10:34	10: 36	A statement was made about the destructive and nondestructive testing to be done after the soil survey. Information was given about the reinforcement and stirrups. Explained how to take samples. Image 5 PRESENTATION FILE SHARED SECTIONS_05 YAPSAL FIZIBILITE BINA TASIYICI YAPSI TAMBBATI / TAMBBATSI MUAYENE Dordin to other node? 1 Downs Return periodickli quils qualution; (Common periodickli quality qualution; (Common periodickli quality qualution; (Common periodickli quality qualution; (Common periodickli quality qualution; (Common periodickli quality qualution; (Common periodickli quality qualution; (Common periodickli quality qualution; (Common periodickli quality qualution; (Common periodickli quality qualution) Ethips: (Color, long gial trappos sealed periodickli periodickli periodickli quality qualution; (Common periodickli quality qualution) Province first quality quality destruction destruction destruction of the periodic periodic periodic transfer. 1 Province first quality quality destruction destruction destruction destruction. 2 Province first quality quality destruction destruction destruction. 3 Province first quality quality destruction destruction destruction. 4 Province first quality quality destruction destruction. 5 Province first quality quality destruction destruction. 6 Province first quality quality destruction destruction. 6 Province first quality quality destruction destruction. 7 Province first quality quality quality quality quality quality quality quality quality quality. 8 Province first quality q
10:36	10:38	 It was stated that the tensile strength test will be applied to the samples taken. It was explained that the sample to be taken for the core test will be taken from the structural support. It has been explained that the durability of these samples will be measured by compressive strength tests.







		Image 6 PRESENTATION FILE SHARED SECTIONS_06
		YAPISAL FIZIBILITE BINA TASYYICI YAPISI TAHRIBATSIZ MUAYENE Donoth numericheric oberdate laborothuradrarda gelame dayanım testlerine tabi tutulur, toprna kurwelleri belirlerir ve apportanz. **Notice: Sutur olamak da bilinen, tasyria sidemde dayay yapı elemanicanca verilen isalmi. Vispad adı ve iş çalikalerinden oluğan kurwelları (moment, isasma kurvelt vb.) temolere, dolaya ile zemine aktorirar. **Notice: Sutur olamak da bilinen, tasyria sidemde dayay yapı elemanicanca verilen isalmi. Vispad adı ve iş çalikalerin aldışını kurvelları (moment, isasma kurvelt vb.) temolere, dolaya ile zemine aktorirar. **Notice: Sutur olamak da bilinen, tasyria sidemde dayay yapı elemanicancı verilen isalmi. Vispad adı veye iş çalikalerin dayeş va iş çali
		YAPISAL FIZIBILITE BINA TAŞIYICI YAPISI TAKRIBATLI / TAKRIBATSIZ MUAYENE Numurelerin çikorilmos: Taypo berte hermülu çını kolorindon Nom çapırda Dem demiliğindi, silndirir krumunelerir çikorilmos: 1 forar malanışı çalgırırını Kallırı ve yapır demide darveni ve gilen yapıları nataya uyapın mikarda su seleverinde inderin şilmiren başılırı. 2 torar malanışı qalgırını Kallırı ve yapır demide darveni ve gilen yapıları nataya uyapın mikarda su seleverinde inderin şilmiren başılırı. 3 torar malanışı qalgırını kallırı ve yapır demide darveni ve gilen yapıları nataya uyapın mikarda su seleverinde inderin şilmiren başılırı başılırı yapın başılıklıklırı enuy ve galşılı kullandara muman yarılanın çılmir. 4 torar malanışı yarılanın dağırılanın başılırı başılıyayında İspania sağırını Severe baları numane yarılanın çılmir. 5 torar malanışı yarılanın dağırılanın başılırı yapıyayında İspania sağırının sağırılanın
10:38	10:40	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 **YAPSAL FIZIBILITE** TARBELL ITES TONRASI ONARM Proje lapasarmeta gençeologistrian tainfault musyonelerin, ternin edilen neumonichin. blurays supea hasar vermed size known defaller. - Dearn rampura between individual charger like uplandan st. enclidandan. - Solon systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default. - Valor systems unaccus stripe, olora kandra ve between unaccus default.









	Kamu Binalarında Depr ve Enerji Verimliliğ		
10:40	10:45	General ex	
		- n	
		- I	
		t	
		ϵ	
		• (
		• I	
		S .	
		•	
		•	
		- I	
		• I	
		i	
		_ т	

xplanations 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









10:45	10:53	 It has been stated that the OHS rules that the contractor companies must comply with and the general environmental and social effects/measures are explained in the OHS plan prepared specifically for this project and communicated to the relevant employees. In addition to the structural feasibility, it was stated that studies will be carried out on the energy efficiency of the buildings and various controls and examinations will be carried out in order to understand the current situation of the building before these. Image 9 PRESENTATION FILE SHARED SECTIONS_09
		Wideled foreign synday govern (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search to govern grower (a single) search grower (a single) searc
		ENERI VERIMILIĞI DIRITARGON-MASHITALITON VANV SISTMALIBAN TIXON 1. For the depth in beginder, process on depth the composed of a group of the process of a good of the beginder, process on depth the composed of the compos
		is SACILIA GÜVENLÜ Sies aut ausgi productiven be trife intere. Igkin eit de crazit georgelingriem y, or influence hair interest georgelingriem y, or influence and y influence a
10:53	10:56	Clarifications were made regarding stakeholder engagement, receiving and evaluating suggestions and grievances, and informing the relevant parties about this process (decisions taken regarding suggestions and grievances, additional measures implemented, etc.)







2023

		 It was explained that suggestions and grievances can be received via digital form, telephone, e-mail addresses and QR codes. It was stated that suggestions and grievances can be conveyed by specifying the building name with the call line 181. Printed feedback forms were introduced, information was given about the suggestion and grievance boxes to be established in the building, and the control periods. It was announced that the grievances about gender-based violence (harassment, abuse, etc.) and gender-based discrimination, which were made within the scope of the project, will also be evaluated within the scope of the grievance resolution mechanism. Image 10 PRESENTATION FILE SHARED SECTIONS_10
		ONERI ŞIKAYET SISTEMI Oner we significate individu (respir to ordine of some of care
10:56	11:04	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

AnnexVII/Table-2: Questions & Answers

	NAME SURNAME	QUESTION	NAME SURNAME	ANSWER	
01	Participant 1	Do you have any information about the previous works done in our building	Ganime Güzel	It was stated that it will be shared with the consultant and they will be re-evaluated.	

AnnexVII/Table-3: Meeting Images























Participant List and Contact Information

AnnexVII/Table-4: Participant List

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)
- 7) Koray Demirkaya(Progress Compensation Expert)

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











Stakeholder Engagement Meeting Presentation









KAMU BİNALARINDA DEPREM DAYANIMI & ENERJİ VERİMLİLİĞI PROJESİ

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 çıkarma ve enerji tasarrufunu iyileştirmeye odaklarmıştır. Bu çerçevede binaların;

- Yapsal olarak güçlendirlinesi,
 Enetji performarslarının artırlınas,
 Yerinde yenlenebilir 8. sürdürülebilir enerji üretmi,
 Enerji yörnüm sistemirin retarik alı yapsa (la birlikte (Bina enerji takip ve kontrol sistemi,
 Enerji yörnüm sistemirin retarik alı yapsa (la birlikte (Bina enerji takip ve kontrol sistemi,
- bina otomasyon sistemi vb.) kurulması ve etkirliğinin sağlanması, Proje kapsamında, paydaşlar seviyesinde farkındalık sağlanması,

hedeflenmiştir











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













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









ALIASCON, HILL

ATLASCORT HILL



YAPISAL FIZIBILITE



ATLASCOR! HILL

ATLASCOT HILL



Araştıma çukuru (her bir yapı için en az 1 adet), jeofizik serim (her bir yapı için en az 2), 50m dörtlikte sondaj (2.15 ad. araş) liv zemin durumu belifonocok ve raportonacoltir. Her bir yapı için bu kapsamda gerçekleştinlecek test, sondaj sayılan belirlerimiştir ve bina teknik birinleri le poylaştılmıştır.





YAPISAL FIZIBILITE

ZEMIN ETÜDÜ;

GENEL AŞAMALAR

Proje & ihale dokümanları ile birlikte;

Bu kapsamda gerçekleştirilecek test & numune sayıları aşağıdadır;



Cevresel Sasyal Yönetim Planları (Projenin çevresel ve sasyal etkileri belirlenecek, riskler ve risklerin bertarafı için hayata geçirilecek eylemler tanımlanacaklır)

bertrant (n) töyata geyirseke iyetmet tanımanacası)
§ Saglış & Germelli Palanılı (malat qamaların alişlin) iş aglışlı ve girverliği risklen belirlenecek
ve bertrant işin olurması gereken olurluk tanımlaracaksı;)
Paydaş (Kalılın Balanı (Projende nikek ve doloşlı eliklenecek poydaşlar ve siz konusu
poydaşların proje ve prosi süreşleri hakında ne kodar nasıl bişlirenlirlerlerleri (gert bişlirlerin) (konsi glavny'tık) nasıl sışlarında ili elektriklerin (konsi glavny'tık) nasıl sışlarında ili elektriklerin (konsi glavny'tık) nasıl sışlarında ili elektriklerin (konsi glavny'tık) nasıl sışlarında ili elektriklerin (konsi glavny'tık) nasıl sışlarında ili elektriklerin (konsi glavny'tık) nasıl sışlarında ili elektriklerin (konsi glavny'tık) nasıl sışlarında ili elektriklerin (konsi gili elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektriklerin (konsi elektrikle



İS SAĞLIĞI GÜVENLIĞI

GENEL ASAMALAR

Zemin etüdüne ilişkin risk analizi gerçekleştirilmiş, <u>is soğlığı ve güvenliği planlan</u> hazırlanmış ve çalışanlara alişkin dikkat etmeleri gereken konular şunlardır.



- Kazakli sondaj makinesi, komyon marifeti ile sondaj noktalanna iletilecektir. Söz konusu kamyonlann kullanım, monevarian esnosında kimsenin zarar görmemesi için zarun haller diginda 20m' den fazla yaklasılmaması geretimektediri. Kamyon ve iş makinlerinin azamı hız sının 20 im' dir.
- Sondaj kulesinin kaldırılması esnasında, kule etki alanı içinde bina elemanlarının, ağaç dallarını vb. olmadığından emin olunmalıdır. Sandaj işlemi yapılan alana 20m'den fazla yaklaşılmaması gerekmektedir. Bunun tesisi için çalışma sahas emriyet şerdi ile ayrılacaktır.
- Sandaj işlemi esnasında gevredeki teknik kadraların tazdan etkilenmemesi için yarım yüz maskesi kullarırını önerilir.
- Sondaj işlemi esnasında gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bireylerin konsantrasyonlarının olumsuz yönde etkilenmesi muhtemeldir.
- Çalışma sonrasında araştırma çukurları ve sondaj delikleri kapatılacaktır. Bu suretle takılma, düşme riskleri bertaraf edilmiş olacaktır.



İŞ SAĞLIĞI CÜVENLIĞI – ÇALIŞANLAR Çalşanların tamam aşağıda belirtilen ve kendilenre teslim edilen kişisel koruyucu dananımlar dispiliri şekilda kullarmadış vükümlüdür. Söz korusu dananımları uygun şekildə taşımışanı kullarımayanların aqılşımalanına izin verilmeyesektir.



- Kulak Tikaci TS EN 352-2
- Konwacu Gözlük TS EN ISO 16321-3
- Cenel Amagli Iş Eldiveni TS EN ISO 21420
- İş Ayakkabıs TS EN ISO 20347
 Yanım Yüz Maskesi TS EN 140
- Paraşüt Tipi Emniyet Kemeri TS EN 361 (Sadece S





İŞ SAĞLIĞI GÜVENLIĞI – ÇALIŞANLAR

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







ATLASCOT' HILL

MESLEKI YETERLILIK

Sondaj çalışmaları yetkili <u>Sondörler</u> tarafından gerçekleştirilecektir.

 Sandör: Sondaj makina va akipmanlarını kullanarak yar altı va yar üştünün dağişik katmanlarında sandaj. lokasyon hazırlığı, sondaj kuyusu oçma ve numune alma gibi işlemleri yapan kmsedir.

Sandaj makinesi taşımada kullanılan kamyonlar, <u>C sınıfı ehliyet sahibi şoförler</u> tarafından kullanılacaktır,



CEVRESEL ETKILER

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



- Sandaj işlemi esnasında gürültü anlık olarak 95dB seviyelerine ulaşabilmektedir. Bu nedenle çevredeki bireylerin konsantrasyonlarının olumsuz yönde etkilenmesi muhtemeldir.

- breylern korsontrogorilornan okurroz, yande etillermesi muhlemaldir.
 Sordigi moltresi, kamyorui marozt ve yağı lernü enerevindi tepraği seyarin serileri elektrilik etil rosanda tepraği seyarin yazılında kamyorul marozt ve yağı lernü enerevindi tepraği seyarin serileri elektrilik etil rosanda kamyorul kamyoru
- Sondaj çalşımalan əsnasında ortaya çıkan ahklar ve çalşanların atkları (içecek şiyeler, jolastik yemek kapları k), isinfiandininal kaydalarıla idərenin gastereceği olanlarda geçici olarak depolarınacıktır. Söx konusu ahkların ayrıştınlırlası ve depolarınası projede görev olan çalqarıların surumluluğundadır.









2023



ALVacous, HILL











SOSYAL ETKILER

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

- Sandaj galişmalanını, İsna dayanının olunsuz etrilemes saz konusu değildir.
 Sandaj galişmalan esnasında bina kullanıalanın ve diğer paydaşların günüli vix. etrilemen olunsuz etrilemenensi işin gerekli planlama konusunda saha penanallerine yardınıcı olmanızı nica ediyoruz.



- Technical communicación con portenia communicación con performente por yearnación mantante nos designoss. Technical communicación de la communicación del communicación de la communicación del la commu
- Projede görev alan çalışarıların, hiç bir koşul ahnıda paydaşlar ile tartışmaması hususunda gerekli uyanlar yapılmıştır. Böyle bir durumla kuşışlaşılması halinde oneri ve şikayet mekanızmalan yastasıyla bizlere ulaşmamızı beklyoruz, (Onen 8 şikayet susun).
- ungunanıcı parayeruz, içirinin a şirayırd süröci j Buttun çalışınları ayırımcılık, cineyet temelli şiddet konusunda bilgilendirilmiş ve proje kapsamında bu tip dovumşların hiçbir yart ve icəşil altırıda izin verilmeyeceği bildirilmiştir. Bu yaklaşıma aykın hareket edenlerin, projede görev almasına ya da görevlerinin devamlılığına müsoode 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.

CAMPUS NAME	BUILDING NAME	PROVINCE	YEAR OF CONSTRUCTION	CONSTRUCTED AREA	BLOCKS SEPERATED BY JOINSTS	NUMBER OF Stories	COLLECTED	MEMBERS FOR CONCRETE COVER REMOVAL	OF MEMBERS FOR REINFORCEMENT DETECTION	GFFOUNDATION OBSERV. PITS
VINISTRY OF YOUTH E. SFORTS) [Campus No.5]	Gezarfer Bige Cornitory Building	KOOKEJ	2005	18.520,00	ı	29-2-5	68	96	529	3
VINISTRYOF YOUTH & SPORTS) (Campus Notic)	Sandra Dormitory Building	KOOKEJ	2007	11340,00	3	84242	33	15	200	2
			Total	34,860,00			101	141	520	5











ATLASCON' HILL

YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Bina zenin/homel kontrolü için; temel kalınlığırın bir miktar altına inilocek derinlikte yaklaşık (0.5m² yüzey alanı) araştırma çukuru açıkr. Aplan çukur gössel olarak kontrol oldinek temel hip, yapısı, bileşenin kontrol oldir və projeler ile iyaşlanın. Açılan çukur və gözlemlet gösteri mahiyette resimler çekilir. Araştırma sonrasında çukur uygun biçimdə kapartılar.





BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Taşıyıcı yapı gözlemleri ve numune tespiti;

- Demir taşsit cihazları ile bira taşırıcı elemanlarının içirdə yar alan donatiların (demir); konumlan, düzilimleri və aralıkan beliforminyə çalışlar.
 Batan və damir murumusi almacı beliformir.
- Numune etiketleri doldurulur ve numune alınacak vüzevlerin vanına ilistirilir

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

kopma kuvvetleri belirlenir ve raporlanır.





YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Danati ve etriye nedir?

- Donatı: Beton içerisindeki çelik çubuklardır. (Beton basınca kaışı çok iyi çalışan bir malzeme olmasına rağmen, çokme dayanımı çok düşüktür. Çekme bölgesindeki gerilmeleri kaışılamak üzere, bu bölgeye çelik çubuklar yerleştirilir.)
- Etriye: Kolon, kiris gibi taşıyıcı sistem elemanlarının; boyuna donatılarını saran, inşaat çeliğinin bükülmesiyle elde edilen bir sargı donatısıdır.







BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Numunelerin çıkarılması;

- Donati kontrollü için belirlenen yüzeyler üzerindeki; boya, alçı, sıva ve beton katmanlar, kırıcı marifeti ile kaldırılır, sıyrılır. Bu suratle kontrol adilecek demirler ortaya çıkanlır.
- Çıkarılan donatı (etriye ve boyuna donatı) üzerindeki beton kalıntılar ve paş, uygun boyutta metal firçalar kullarılarak temizlerir.
- Donati capian tespir edilir, davanim testi icin numune filiz baslanndan vb. spiral tas marifeti ile demir cubuklar kesilir.















BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Kolon, kiriş nedir?

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





Donati numuneleri; akredite laboratuvarlarda çekme dayanım testlerine tabi tutulur,









ATLASCORT HILL

Paydaş Katılımı Toplantı Raporu



YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

Numunelerin çıkarılması;

- Taşıyıcı betan kontrolü için <u>kolanlardan</u> 10cm çapında 10cm derinliğinde, silindirik numunelerin çıkanlması: Karot makinesi; numune alinacak noktaya hedeflenerek uygun çapta dübel / vida kullanılarak sabitlerir.
- Karot makinesi çaliştirilir. Makine uygun devirde dönerek ve işlem yapılan noktaya uygun miktarda su aktararak delme işlemine başlar.
- 100-150mm derinliğe ulaşıldığında cihaz yatağı üzerinden karot ucu geri çeklir ve cihaz kapalı konuma
- e Krant maknesi yerirden çıkanlır. De'gi başluğuna uygun böyüklüre murç ve çeliç kullanlarak numune kişesine vurularak, numunenin başlant yüzeyinden kopması saşlanır. Serbest kalan numune yerinden çıkanlır.







ATLASCON' HILL

İŞ SAĞLIĞI GÜVENLIĞI

Bina içi yapısal gözlem, test ve muayene çalşmalarına ilişkin risk analizi gerçekleştirilmiş, iş sağlığı və güvorliği planları hazırlarmış və çalışmalara aktarlımıştır. Paydaşlarmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır.



- Kazı, İsrim, karat ve onarım hara hazırlama esnasında görevli olmayan paydaşlar, çalgıma noktalarına Sim den fazla yaldığımamaldır. Bu surellar, çikan faz, yalasık gürülülere uzun süre maruziyet, firlayan gapal/ beran payçalarından etil leirme ihimal ortdan kallacadırı.
- Çalışmalara eşlik edecek bina teknik kadrolanını/çalışanlanını; kazı, karat ve kınım işlemlerini yakından takip etmemesi, bu çalışmalar esnasında taz maskesi, konyucu gözlük ve baret kullanmalan gerekmektedi.
- Çalışmalara eşlik eden teknik kadrolar; uzatma ve diğer elektrikli ekipmanlara temas etmemelidir.
- Çalışmalara eşik eden teknik kodrolar; elektrikli cihazların bağlana bilmesi için, kaçak akırın korumalı hatlardan besienen uygun prizler soçmelidir.
- Çalışma sonrasında araştırma çukurları, sıyırma işlemi yapıla kelenlar ve beton numunesi alınan bölgeler tamir edilecektir.





ATLASCOT HILL

YAPISAL FIZIBILITE

BINA TAŞIYICI YAPISI TAHRIBATLI / TAHRIBATSIZ MUAYENE

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



YAPISAL FIZIBILITE

TAHRIBATI I TEST SONRASI ONARIM

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

- Demir numuneler kuvvet altında kalmayan filiz uçlarından vb. noktalardan alınmaktadır
- Kolon syirmasi sonucu tahrip olan kisimlar ve beton numunesi alinan bölümler yüksek mukavemetli dolgu harçları kullanılarak doldurulacak, onanlacaktır.









İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR

Çalşarıların tamamı aşağıda belirtilen ve kendilerine teelim edilen kişsel konyucu donanımları disiplinli şekilde kullarımakla yükümlüdür. Söz konusu donanımları uygun şekilde taşımayan/kullarımayarıların çalşmalarına izin verilmeyecektir.



- Kulak Tikacı TS EN 352-2
 Konuyucu Gözlük TS EN ISO 16321-3 Genel Amoçlı İş Eldiveni - TS EN ISO 21420
- Is Avakkabıs TS EN ISO 20347
- Yanm Yüz Maskesi TS EN 140



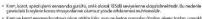


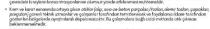
- Sahada gerçekleştirilen yapısal dayanım testlerinin tamamı İnşaat Mühendisleri tarafından ya da gözetiminde (tekniker, teknisyen) gerçekleştirilmektedir.
- Rölöve çalışmaları Mirnar, Makine Mühendisi ve Elektrik Mühendisleri tarafından gerçekleştirileçektir.



ÇEVRESEL ETKILER

Bina içi gözlem, test ve muayene çalışmalarına ilişkin olası çevresel etkiler ve alınması gereke önlemlər, bütün çalışanlara aktarılmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat otmolori gereken konular sunlardır:





- cecemintententum.

 Tamir hardjannin kullanımı errasında çıkan antları, üretici tarafından beyan edilen şekilde (MSOS-Material Safety Data Shear (Türkçesi Gürenih Belgi Formu (GBF) olandı adlandırimcitadı;)] sınıflandırlacı ve faydolancı idare tarafından gösterlen bölçelere ayrıştırlarak depolanacıkın. Bu galışmaları bağlı edili mi tarafı etki çilması belkinmeneletedir.
- Projede görevlendirilen tehnik uzman ve çalışanların, içecek ve yiyecek tüketimlerine bağlı ortaya çıkacak gen dönüştürülebilir attıklarının tamamı, bina içinde tessi edilen gen dönüşüm kutularına atlır.



SOSYAL ETKILER

Bina içi gözlem, test ve muayene çalışmalanına ilişkin öngörülen sosyal etkiler, İSO planlarında bolitiliniştir. Söz konusu etkilor ve alınıması gerokan önlemler bürün çalışanlara bildirilmiştir. Bunun yarında paydaşlanımza aktarındı istediğimiz, hussafış yurladırı;

- Bina içinde gerçekleştirilen tahribatlı muayenelerin ve alınan numunelerin; bina dayanımını olumsuz etkilemesi söz konusu değildir.
- Test ve numune temini esnasında; bina kullanıcılarının ve diğer paydaşların gürülü vb. etkilerden alumsuz etkilenmemesi için gerekli planlama konusunda, saha personellerine yardımcı olmanızı rica ediyoruz.
- Teknik uzmanlanmuzn ve galişarılanmuzn, gevresel ettik ve gürültülerden ettiklermesi classder. Çalışmalar esrasında, tullarıcı ve diğer paydatların çalışma alanlarına yaklaşmuzmdan hususunda yapıları uyanları dikkate alarıcık destek vermenizi isca ediyoruz.
- Test, muayene galışmaları sonrası; galışma sahalarında gerekli düzenlemeler, görevli personeller tarafındar gerçekleştirilecektir. Bu konuya ilişkin şilkayetlerinizi lütten bize bildirin.
- Projekte göver den çolişanların hiş bir koyul ahnda paydaşiar ile tartışmaması hususunda gerekli uyanlar yapılmıştır. Söye'ra drumı'na korşidirma birlinde öneri ve şikayer mekanizmaları vastrasıyla bizlere ulaşmamızı bidiyanuz. (Önen 6. şikayer sureci)
- Bütün çalışanlar ayrımalık, cinsiyet temelli şiddet konusunda bilgilendirilmiş ve proje kapsamında bu tip darvanışlara hiçbir şart ve koşul altında izin verilmeyeceği bilainliniştir. Bu yaklaşıma aykın hareket edeni projede görve almasına ya da görvelerini davamılılığın arvisacade adilmeyecektir.





ATLASCOT HILL

Yüklenici firmaların uymaları gereken iş sağlığı ve güvenliği kuralları ile genel çevresel sosyal etkiler/önlemler; bu proje özelinde hazırlanan İSG planı içinde açıklanmıştır ve ilgili bütün çalısanlara tebliğ edilmiştir.

























ENERJI VERIMLILIĞI

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

- Bina cephesi, cephe bileşenleri (kapı, pencere) ve çatı. Sirkülasvan matarları ve pompaları
- Merkezi cebri havalandırma sistemler
- Merkezi iklimlendirme sistemleri (soğutma ve Isitma)
- Sicak kullanım suvu üretimi.
- Yerinde sürdürülebilir elektrik üretimi.

- Enerji yönetim ve izleme sistemleri





ENERJI VERIMLILIĞI ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

- Bira diş cephe biləşenləri, pencere ve kapılar ile çerçeveleri, çatı tipi ve bileşenleri termal yalıtım becerisi çerçevesinde incelenir. Bunun için Mexcut cephe ve çar yalıtım katmanları ve sil geçirgenlik katsayılan belirlerir, termal kamercilar ile si koçaldını teşpil edilir.
- Her bir elektrik motoru kontrol edilir. Verim sınıfı, irnal yılı, vibrasyon, çekilen akım ve güç, frekarıs 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 belirlenir.
- Her bir merkezi kazan ünitesi performans testlerine tabi tutulur. Baca gazı analizi ile yarıma verimi belirlerir. Kazan termal kayıplan, anlık tüketim verileri, kapalı çevrim akışkan sıcaklık ve debi verileri tespit edilir.













ENERJI VERIMLILIĞI

ENERUI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

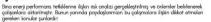
- İç ortam aydınlatma seviyeleri ölçülür ve standart şartları ile kıyaslarır. Aydınlatma elemanlarının tipleri, güç koynakları vb. veriler dıkkate alınarak aydınlatmanın toplam tüketim içindeki payi belirlenmeye çalışılır.
- İç ortam hava kalitesi verileri; örneklem metodu ile anlık olarak ölçülür. Karbondioksit oranı, sıcaklık ve nem değerleri listelenir. Konfor şartlarına ilişkin. standartlar le kıvaslanır.
- Bina iç ortam sıcaklık değişimleri data logger' 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 sorgularır.
- İklimlendirme, aydınlatma ve motor pompa elemanlarının işletme metotları incelenir. Otomasyon imkanları balirlenir.

ENERJI VERIMLILIĞI

ENERJI PERFORMANSINI ETKILEYEN YAPI VE SISTEMLERIN TETKIKI

- Bina elektrik sistemi, kesintisiz güç kaynakları vb. yapılarla birlikte incelenir. Asgari 24 saat enerji kalife analizi gerçekleştirilir. Bu surelle bina elektrik sistemi, harmonik bazulma seviyelerini içerecek mahiyette gözlerir.
- Bina topraklama sürekliği sorgulanır. Kaçak akım koruma sistemleri ve etkinliği doğarlandırılır. Şalt akipmarkan termal açıdan sorgulanır, bu suretle problemli şalt ekipmanları ve linye hatları belirlenmeye çalışılır.
- · 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 lokasyonlannın hava koşulları, çevre ve yer altı patansiyel isi kaynakları sorgularır, Mevcut tesisat bileşenleri dikkate alınarak isi pompası vb. imkanlar değerlendirilir.

İŞ SAĞLIĞI GÜVENLIĞI





- Elektrik sistemine ve büyük elektrikli cihazlara (ohller grupları vb.) test problan yerleştinlecek ve uzun süreli gözlemler yapılacakiri. Saz konusu pancılara yerlesiz işilerin yaklaşması tehlikeli dir. Bu nedenle saz konusu pancıların bulunduğu olanlar kildiremlediri. Ölşümlerin tamamına bina teknik personel/personelleri eşlik etmeli; cihazların devreye alınması, devreden çıkanlırması, arhazı konuna mahfazakırının açılması vib. uygulamaları bizzari yetkili bina teknik personelleri gerçekleştirmildir.
- Bina teknik personelleri; havalandırma üniteleri vb. cihazlara gövenli erişim yolları (çatı üzeri vb.) belirlemeli ve görevli teknik personelleri yönlendirmelidir.
- Bina teknik personelleri; anzalı ve riskli cihazlar konusunda görevli teknik personelleri uyarmalıdır. Bu aşamada tahriba tirmuayenevb. durum söz konusu değildir. Teste tabi t testlerden dolayı zarar görmesi, tahrip olması söz konusu değildir.











ve Enerii Verimliliği Projesi

Paydaş Katılımı Toplantı Raporu



ATLASCOT' HILL





CEVRESEL SOSYAL ETKILER

Enerji verimilliği perspektifinde gerçekleştirilen gözlem, test ve muayene çalışmalanna ilişkin olumsuz bir çevresel etki beklemmemektedir. Ancak teknik uzmanların içecek ve yiyeceklerinden kaynaklanan ambalaj abıkları geri dönüşüm ilkesi çerçevesinde değerlendirilir. Bunun yanında öngördüğümüz sosyal

- - Çelişmalar esnasında, kullanıcı ve eliğer paydeğların çelişma alanlarıncı yaklaşmemaları hususunda yapıları uyanlar diklete olcoli, destak vermenizi rica ediyoruz.
 - Test, muoyene çalışmaları sorraşı çolisma sahalarında herhongi binkirtlik oluşması beklemmerrekle binkne, oluşabilecek alca krilik kovalmından bentovat adılacılatır.
 - one is risk to other dan between deliceder. O callele de held is the analyse to goodstoon of planner servande, bras energis ken save engri kerieb in facqui adem streams deverge garnesse; (b), b), da undan to relationed or net file menning an light good verifieration selection of the servander of the selection of the servander of the selection of the selecti







ATLASCON' HILL

ÖNERI ŞIKAYET SISTEMI

ATLASCON' HILL

Öneri ve şikayetlerinizin: jeçriği ne olusa olsun, nasi koleme alınısa alırsın bizim için değeri öldüğunu bilmenizi istyonz. Genel erlik ikelere uşgun letreceğiriz cıneri ve şikayetleriniziden adayo olumuş, herbarqışı bir durumla karşıkaynıyacışığınız, eleştirineyəceğirizi gararti eckyonz. Öneri ve şikayetlerinizi harqışı yörtlerile iletinenizi deril (matbu, mat, internet formları ya da telefori) hepsi oynı şəkilde değerlerdiliri, tamarını şizli 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, Şehroci kive İlâm Değşikliği Bakanı İşhını (ÇŞİDB) hem terifon hem de veb sitesi aracı İşiyla vəriyi bolan bir AloB iyardını hartı varia. Bu yardını hartı oyru zamanda çalişarılan, çezim ortakları ve dalcı geriş zürmeri eri pro ostarlık kizeyinde bir şiriyleri melantıması işeri görür. ÇŞBB tararindarı sağı oran türn çevre və şeinir tiraməferi isi İşli sanı, taba və şkayetter porlegonel cürci yörnifları ALO İBI çəği merketi xarafıladırı dalarılanın delirinin eletinelerileri.

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

: Alc 181 : 0312 586 4858 : ytgmtudev@csb.gov.tr : https://kndevonert.csb.gov.tr/onert.jsp







(Bu e/Jem igh deilt teleforunutala QR kari sygulamaei chraita: Sar konsus uygulamayatsa, herhangi bir internet rangs, a deir cubulgunayilayat famu organ adicsiw yasatalisnini.)

















Annex VII Stakeholder Engagement Meeting Content & Records (ESMP)

Project

WB/CS-DESSUP-01 Code

8.03.2024 Date

KOCAELİ KARAMÜRSEL GAZANFER BİLGE **Building Name**

KYK DORMITORY BUILDING

Start | End Time 14:00 | 15:23

AnnexVII/Table-1: Meeting Agenda

	0 0	
START TIME	END TIME	ACTIVITY
11:00	11:03	Meeting kick-off speech
11:03	11:05	Within the framework of the Law on the Protection of Personal Data, general information was provided regarding the meeting recording and the processing of personal data. There are no participants who oppose the meeting recording. • As of 11:05, the entire meeting was recorded in *.mp4 video format and *.m4a audio file format. In addition, meeting messages are recorded in *.txt format.
11:05	11:08	Information was given about the SREEPB project and its objectives. Image 7 PRESENTATION FILE SHARED SECTIONS_01 **COLD PROJECT OF THE SHARED SECTIONS_01 **COLD PROJECT OF THE SHARED SECTIONS_01 **COLD PROJECT OF THE SHARED SECTIONS OF THE SHARED SE







			PRINCENT TITLE
		sismik risk altır hizmet kurum Bu sunum; B OÜ	nalarında Deprem Dayanımı ve Enerji Verimilliği (KADEV) Projest; yüksek kaltında ve enerji verimiliği düşük yükseköğretim binaları, yurtlar, sosyal urumları, hastaneler ve bükümet konaktan gibi kamu binalarında sismik güçlendirme ve enerji verimiliğine odaklarınıştır. BDÜN Uçaksavar Kampüsünde yer alan <u>SUPERDORMI</u> (19.700m²) yapısal e ve enerji verimiliği odaklı iyıleştirme çalışmaları hakkında bilgi verecektir.
11:15	11:20	The renovations to be carried out for the structural st (Structural system reinforcement, fine works, etc.) Image 8 PRESENTATION FILE SHARED SECTIONS_02	
		CANADAM ASSESSMENT OF THE PROPERTY OF THE PROP	Yapum Aşaması Fait neticenirde, yapud giçlendime ve eneşi verimliği delele removayorlar belefenneği ve projekrelefelmiştir. Siz krossusereveyeyeyler, apşağışdara başışdar harlande belefelmiştir. Yapusal Güçlendime • Monalizayesire verimliği delene belefelmiştir. Yapusal Güçlendime • Monalizayesire verimliği delene belefelmiştir. Oli Enerji Verimliği • Operational aktive • Operational a
		Yapisal Güçlendirme Taştıc Sistem Güçlendirme Göçendirme perdesel ve kolon mavadon yedekek aksisrdalı dusadar işurelmerek en ist ist görendirme perdesel ve kolon mavadon yedekek aksisrdalı dusadar işurelmerek en ist ist görendir. Olan yelem örecel azer görme sidi bir matası virtifive, tegilin, deletik ve meksink sedirel delymanları söklelerektir ve Fıydaklarıcı ik gözen makanlarıla geleçeldir.	rındıran; kapı, pencere, çevresinin açılması için subasman betonunun kırılması ve temel içi dolgusunun kazılması gerekmektedir. Bu
		01	61







		Yapısal Güçlendirme Tatıtı Sistem Güçlendirme Krını ve kalı işimleri sınamılandıktan sonra mevut. kolon, kiri, ve temelere anları çıbululan çıdakır. Arkını delkleri delyari yerilerindel ölçülere uşunı darak del cirinaslışdarları mevut elenuriları delk açılmas, deliğin hava kompresodi ile temelerinesle, epoki yapıştırınının delk çertine sılalması ve örceden harıfanarıa arkını demirinin delk iç errine sulaması yeşindeyeyelir. Oli
		Yapısal Güçlendirme Taptro Sistem Güldendirme Ankarı malatalını ile beraker güçlendirme donatorun döçenmed şierine başlınacaları. Donatı numune korrolleri sornarı Piyevod kaşıları kapatlulak bir biri kit döçerminden soğul edilerine haşların delikteri veya kip ağıd diderine haşların mar delen hunder, ormade prediden soğul everilerine "rendeğinden verileren betor" (since agregalı). Oli Vapısal Güçlendirme Napısal Güçlendirme Napısal Güçlendirme Napısal Büçlendirm
11:20	11:23	 The renovations to be carried out for energy efficiency determined as a result of the audit are explained in detail. Solar Power Plants Heating Center Renovation Motor & Pump Replacement LED Conversion Automation System Facade Insulation Terrace Roof Insulation Door Replacement







2023

Image 3 PRESENTATION FILE SHARED SECTIONS 03 ATLASCORT ! ATLASCOT! HILL Enerii Verimliliği Odaklı Çalışmalar Enerji Verimliliği Odaklı Calısmalar Çatı Üzeri Güneş Enerji Santralleri Domestik sıcak su üretiminde kullanılan SWEP MARKA GL13 MODEL plakalı eşanjörlere (1,1 m2 uygulama alanı) ve termal arodan yalıtırsızı olduğu tespit edilen 62 adet satma tesisat elemanna termal yalıtım ceketi Kırma çatı üzeri solar paneller ile elektrik üretimi sağlanacaktır. (180 Ad. Panel | 98,10 kW., Üretim Kapasitesi) Yapılan hesaplamalar söz konusu sistemin yılda yaklaşık olarak 117.921.40 kWh/yil elektrik üretim potansiyeli barındırdığır ATLASCORT HILL ATLASCOT! TITLE Enerji Verimliliği Odaklı Çalışmalar Enerji Verimliliği Odaklı Çalışmalar Motor & Pompa Değişimi Termostatik Vana Tesisi Proje kapsamına giren tüm yapların radyatör peteklerinin tamamına köşe tipi termostatik vana tesisi örserilmektedir. (202-42/2016/redek) motors a Vompau Luegsem. Temies su hindror motor & pompalan harry tesisat (üzerinde yer alan 11 adet motor & pompalarn IL4 sinfl yüksek verimilenteger firekamiskentröllümetor & pompa sistemferili değiştirlifecektik Motor ve tarihi sistemin IR4 sinfl yüksek verimili motori, yük kipen kannak sistemi ile değiştirlimesi ve her bir motora firekamis kontrol ülmesi tesis edilecektir. Adı druumdaki hasalandırına & kilma ülne motor & pompalanın tananının IL4 sinin enteger ferakan kontrolli motor & pompalanın tananının IL4 sinin ilden enteger ferakan kontrolli motor & pompalanın tananının IL4 sinin ilden enteger ferakan kontrolli motor & pompalanın tananının IL4 sinin ilden enteger ferakan kontrolli motor & pompalanın tananının IL4 sinin ilden enteger ferakan kontrolli motor & pompalanın tananının IL4 sinin ilden enteger ferakan kontrolli motor & pompalanın tananının IL4 sinin ilden enteger ferakan kontrolli motora ilden etile enteger ferakan kontrolli motora ilden etile entere ilden etile 02 . Åtıl durumdaki havalandırma ve klima ünite motorlarının IE4 sırıfı motorlar ile değişimi yapılıp, bütün motorlara pano tipi frekans konvertörütesis edilecektir. Ünite mekanik tahrik sisteminin dişli kayış kasnak sistemleri ile değişimi sağlanacaktır. VILVADORAL, BILLE ATLASCOT TILL Enerji Verimliliği Odaklı Çalışmalar Enerji Verimliliği Odaklı Çalışmalar Aydınlatma Elemanları LED Dönüşümü LED dönüşümü henüz gerçekieştirilmemiş E27 duylu dairesel armatürlerin, 800lm dairesel (downlight) sıva üstü LED uydınlatma armatürleri ile değiştirilecektir. Otomasyon Sistemi <u>Stomasyon sistem</u> (Karamidos Gauges Bigs Yurdu'na; Delayli Eneji Yönetiin Salemi fastma äistemi, domestik sook su ürelini, shikilasyon motor Rpompotori, günej enegi sonroli ye makanik otomasyon istominin, DN DS 00001. Enerji Yönetim Solem şaritismin sygan biçinde kurul'masi ve etkiniğinin sağlarması suretli ile toplam enerji tületimirde -NQ 27 elektrik, -413, 90 ora nanda oloğlağıta tarandı alda edilebi lesigi hasapiamıştır. 02







		(6)	© support IIII		ANAGOR HILL
		02	Enerji Verimliliği Odaklı Çalışmalar Çeşbe Yaltımı De çeşbe hostrolleri neticesinde; yuşulun hesaplumular ile 15 825 sagari şartlarının karşılarmadığırı götermiştir. Bu çurşevede 10cm kalınlığında Us0,035Vm1/K şartın sağlayan taş yönü çeşbe kaplarmas tesisi önerlimiştir. (Veşulların yüzey alan: 5,140m2)	02	Enerji Verimliliği Odaklı Çalışmalar Çat Yalıtmı Verinde yapılan inceleme neticesinde çatda yapılan hesaplamlar mevcut termal yalınına TS 825 şartların kaşılamandığın ortaya toymalatdır. Bu çerçevede billürininyan isma çatı arası mevcut mineral kaplamıların süzürmesi veyerine, biriyili alinininyan hayla şalır armıyınığı qatı atrası (ilem kalınlıkta, 0,035 s esi iletineniği < 0,043w/im.k) olan) serilmesi (1,900m2) onerilmiştir.
		02	Enerji Verimliliği Odaklı Çalışmalar Kapı Değişimi 12,3,4,5,5,7 və 10'numaralıkapları tarmalyatını alüninyun enevell Asi fist çitt camiı kapları le değiştirilerektir. (35 m.)	02	Enerji Verimliliği Odaklı Çalışmalar Yaplan hesaplamalar neticesinde belirlenen önlem senanyolarının hayata geçirlmesi ile toplam enerji tuletirininde 34,23% oranında tasarınıf elde eldibelibecik, volasiyi, 2834,9 kmoryl sen gala meloyonu engelinenbelecitür. Siz komusu renovayorlar ve yenilenen sistemlerin EN SO 30001. Enerji Yonethin Settem sartlama ugun içinde gleşilelmi sir yelli 14,143,973 Kolivih elektrik. 1,106,043,21 kVM doğaylar tusurulu sağıranıblecikir. Siz konusu tazarındun middi boyuru yaklaşık 1,782,124,18 6/yil senyesindedir.
11:23	11:26	 The issues taken into acco It was underlined that only the access of building user 		xplained in the areas with the areas with the the the the the the the the the t	item by item. where renovation works will be carried out, and therefore t work plans should be evaluated within this framework.







	 The environmental impacts of all studies and the precautions to be taken were conveyed to all employees and the issues that stakeholders should pay attention to were explained.
	Image 9 PRESENTATION FILE SHARED SECTIONS_04
	⇒ ransour HIII
	is Sağlığı & Güvenliği Topum sercine lişkin iş sağlığı ke değunlur harafınmışır. Yükenidifirmanır. Tarıfırmıca harafınmışır. Yükenidifirmanır. Tarıfırmıca harafınmışır. Yükenidifirmanır. Tarıfırmıca harafınmışır. Yükenidifirmanır. Tarıfırmıca harafınmışır. Yükenidifirmanır. Tarıfırmıca harafınmışır. Yükenidifirmanır. Tarıfırmıca harafınmışır. Yükenidifirmin in tarifirmin harafınmışın perindi. Sağlığı değunlur harafınmışın perindi. Tarıfırmıca harafınmışır. Yükenidifirmin in tarif
	is Sağlığı Güvenliği Calquahen armanış SALIGI GIVPBLIŞ RANI içnde belirilen lişide koruycu dorumları depini yelde kullarındak yarandır. Se konsus donumları urgan yelde taymayar/ullarmayarin calquali yarandır. Se konsus donumları urgan yelde taymayar/ullarmayarin calquali yarandır. Se konsus donumları urgan yelde taymayar/ullarmayarin calquali yarandır. - Baret 7:511.9974AL - Kali Rano 1-1501.932-2 - Kali Rano 1-1501.932-2 - Kali Rano 1-1501.932-2 - Geral Amanığı Edmen 1-1518/90/21420 - Bareyil Tipi Emeryet Kemsil - TS IN 96/(Sadeceyiliselde çalqınıpersonaller)
: 26 14 11:	Information was given about the traffic action plan.







		 Health & Safety Organization was explained.
		Image 10 PRESENTATION FILE SHARED SECTIONS_05
		Trafik Eylem Plan: Nampdiskyn arraş kulturumlarıra ilşisin zuntar ilş SAĞLUŞ GDVEN KÜPLAN kinde bekirtimiştir. Sağlık & Güvenlik Organizasyonu Sağlık & Güvenlik Organizasyonu
11:28	11:32	■ The environmental impacts of the work to be carried out are explained. Image 11 PRESENTATION FILE SHARED SECTIONS_06
		Cevresel Etkiler Project whose Canamire Rigin Offered Yurda alars speniardeder. Extraors depicts and objects for a special and the special an







2023

			AUTOGOLA, HITT		PILAGORY TITLE
		Çevresel Etkiler inşat çılışmalın ərranda, bölgede hálhuarda mevezt olun karalizayon, elektrik külindecidir. Food atkir, bildiye hürmetlerinden faydalanlarak bertural edilerek, diğer atklar için isi elektrik bildiye hürmetlerinden faydalanlarak bertural edilerek, diğer atklar için isi alayap hirmet aların geremised durumutalı (lanalizayon halfardık tilarına sonul alayap hirmet aların geremised durumutalı (lanalizayon halfardık tilarına sonul alayap hirmet aların geremised delektrik dilerek işini işini bildir. Bildir işini işin	gețici depolama ide herhangi bir tasma (Viclaniör	Çevresel Etkiler Proje kaparındır, Müşəvin, Yükenici firma personellerine vereceği eğilmler sonusun firmanı kunmul deplorinen geliynesi beldenmektedir. Bu eğilmler syağıkla istedermişti Alah Yoreside Çevresel Ald Dunamian Teşkil - Şilayer Meksanırmas (JM)	du, yüklenici
		Cevresel Etkiler AtkYönetimi Inpast, Hafrirot Atkkan: - Sökarn faulsyeleri sorosuundu biraya alt rimmetti malteme oluşması durumunda bir malarımın reletim edildiğine dar halqı almasılatı. - İnpastlyiknit akklarımı İszami'nası ve özdilikle alt yapı malarımcı olunuk yerid Atkların sahaya kabul edileceğine dair Belediyesinden resmi yazı alınarak ilarıyes su	en degerlendirilmesi isine gönderilecektir.	Çevresel Etkiler Alak Konetmi Tehikeli Alakiar;	ni (perindre depotarian konteny-reder di depotamb on divorante
11:32	11 : 34	nounced that the works will not a red that work areas should not be	-	e building strength.	







		Image 7 PRESENTATION FILE SHARED SECTIONS_07
		Sosyal Etkiler Paydagianmaa aktarmak istediğimis hususlar gunlardır; - 55k konusu qalışmaların, <u>Bina dayanman olarmas efidemesi</u> yak lonnusu değirir. - 60kingindirin ve renazionen çalışmaların bilana cerileğir paydağının pilyana sahabarın yaktaymanların hasusunda yakınların qalışmaların daktası kari ole değir paydağının pilyana sahabarın yaktaymanların hasusunda yakınların qalışmaların daktası kari ole deşirin delikere kerile elektrik el
		Sosyal Etkiler Proje kapsamela. Majaverini n'alkeni oj persondi ne vereogii ejdimi er serucunda y úleieni firmann kurumsal kapsato lamondo lodermetikori. En ujigi mire rapjosi fieldermijor. Covered ver Sorgi Etkiler Covered ver Sorgi Etkiler Covered ver Sorgi Etkiler Covered ver Sorgi Etkiler Covered ver Sorgi Etkiler Covered ver Sorgi Etkiler Covered ver Sorgi Etkiler Tovise transportation (SMI) Covered transportation (SMI) Tovise transportation (SMI) Tovise transportation Tovise transportation Tovise transportation
11:34	11:36	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 White finding upwate points 1,000 to get the project of the







11 : 36	11 : 41	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
		Öneri Şikayet Sistemi Ora in şikayet dinimi kipriği no okrası oldarı, rasıl kadının alırıma alırıma alırım bozuni için deşiri oldağını biliminin ilinderi. Gira işi seşiri oldağını biliminin ilinderi. Gira işi seşiri oldağını biliminin ilinderi. Gira işi seşiri oldağını biliminin ilinderi. Gira işi seşiri oldağını biliminin ilinderi. Gira işi seşiri oldağını biliminin ilinderi. Gira işi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını biliminin ilinderi. İşi seşiri oldağını ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri ilinderi. İşi seşiri
11:41	12:08	Participants' questions were received and answered. CLOSING speech was made and the meeting was ended.
		ligi ve arlayışınız için teşekkür ederizl









Questions and Answers

AnnexVII/Table-2 QUESTION & ANSWER LIST

	NAME	QUESTION	NAME	ANSWER
	SURNAME		SURNAME	
01	Participant 1	The wall breaking process is being done for the 3rd time. Doesn't breaking it from the same place cause damage to the building? The closing process was poorly done, why was so much damage done to the building?	Yaşar Yasin Pınarbaşı	It has been stated that according to the earthquake regulations, a sample was taken once, not from the same place, and the area where the sample was taken was filled with high-strength mortar. It has also been mentioned that since reinforcement will be done, this damage can be overlooked.
02	Participant 2	The ESMPs were hung up, but not a single student read them. They were just hung up, pictures were taken, and that was it.	Dicle Maybek	It has been stated that the ESMPs were hung up in the building, disclosed on our website, and also on the Kocaeli Provincial Youth website, and that this meeting was held. It has also been indicated that suggestions are welcome.
03	Participant 3	Grievance boxes are not serving any purpose. No complaints related to the project are coming in.	Dicle Maybek	Students could even make a suggestion about the colour of the walls. If this was not possible in the dormitory, a meeting with the consultant company will be organised.
04	Participant 4	When will the project start? When will it finish? Will the summer break be enough? Will the building be vacated? Where will the students go?	Yaşar Yasin Pınarbaşı Ganime Güzel	It has been mentioned that the building will be evacuated during the works, the construction process will take at least 7-8 months, and with the acceptance phase, it could last up to 1 year. It was also stated that the place where the students will go is within the scope of the Provincial Directorate, and they will provide information about it.
05	Participant 5	There are lodgements. Will the hot water reach the lodgements?	Hüseyin Tavaslıoğlu	It has been mentioned that the boilers are in good condition and there will be no problems on the dormitory side.
06	Participant 6	Will the garden, green areas be damaged? Will trees be cut down?	Ganime Güzel	It was stated that space is needed to set up scaffolding, and other than that, there will be no damage. If there is any damage, twice the number of trees will be planted.
07	Participant 7	It's been 13 months since the earthquake. Why is it being done now?	Hüseyin Tavaslıoğlu	It was stated that the project started 4 months before the earthquake. It was stated that the project started in 2021, preliminary work was done, and the signing date was December 26, 2022.
08	Participant 8	Where will the students stay? The inconvenience will be significant.	Ganime Güzel Tülün Yıldırım	The Ministry of Youth and Sports has been informed, and they will do what is necessary, and it was emphasized that nobody can stay in the building during the retrofitting.









2023

09	Participant 9	There was a major earthquake in 1999. But	Hüseyin Tavaslıoğlu	Since the latest regulation is from 2018, it was stated that the project
		the building was constructed in 2004. Why		will be carried out in compliance with the regulation.
		is there a need for reinforcement?		

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.









AnnexVII/Table-3: Meeting Images















Participant List and Contact Information

AnnexVII/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) Semahat Dicle Maybek (Social Expert)
- 2) Tülün Yıldırım (OHS Specialist)
- 3) Ganime Güzel (Environmental Expert)
- 4) Bedri Özdemir (Social Expert)

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





ATLASCORT' HITT





ATLASCOT! HILL

ATLASCOT' HILL

KAMU BİNALARINDA DEPREM DAYAMIMI & ENERJİ VERİMLİLİĞI PROJESİ

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

https://kamuguclendirme.csb.gov.tr



Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği (KADEV) Projesi; yüksek sismik risk altında ve enerji verimliliği düşük yükseköğretim binaları, yurtlar, sosyal hizmet kurumları, hastaneler ve hükümet konakları gibi kamu binalarında sismik güçlendirme ve enerji verimliliğine odaklanmıştır. Bu sunum; Karamürsel-Gazanfer Bilge Öğrenci Yurdu (12.647m²) yapısal güçlendirme

ve enerji verimliliği odaklı iyileştirme çalışmaları hakkında bilgi verecektir.









Etüt neticesinde; yapısal güçlendirme ve enerji verimliliği odaklı re





Enerji Verimliliği



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 çubuldan çakdır. 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











Yapısal Güçlendirme



Enerji Verimliliği Odaklı Çalışmalar



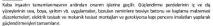
Enerji Verimliliği Odaklı Çalışmalar

ATLASCOT' HITT

ATLASCOT! HILL

ATLASCOT! HILL

ince işler









Çatı Üzeri Güneş Enerji Santralleri Kırma çatı üzeri solar paneller ile elektrik üretimi sağlanacaktır. (180 Ad. Panel | 98,10 kW_p Üretim Kapasitesi)



Yapılan hesaplamalar söz konusu sistemin yılda yaklaşık olarak 117.921,40 kWh/yıl elektrik üretim potansiyeli barındırdığını göstermektedir.

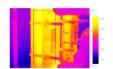


ATLASCORT' HILL

ATLASCORT' HILL

Domestik sıcak su üretiminde kullanılan SWEP MARKA GL13 MODEL plakalı eşanjörlere (1,1 m2 uygulama alanı) ve termal açıdan yalıtımsız olduğu tespit edilen 62 adet ısıtma tesisat elem









Enerji Verimliliği Odaklı Çalışmalar

Motor & Pompa Değişimi

Termis su hörfort ventor & pompular hart, tesisst üserinde yer alan 11 adet motor & pompuların 164 sınfi yüksek verimli integer firskanı kontrolik motor & pompu a sistemlerin değiştirilinesidir. Motor ve tahri körnerin irli 64 sini yüksek verimli motorta (gili kayış kasınak kistemi ik değiştirilinesi ve her bir motora rifesire kontrol üntels tesis edikecitir. Adıl ünumlak havalanları ik kilma üntre motor & pompulanı tamamının 164 anılın enteger lerkanı kontrolik mötor & pompulasi istemlerinle değiştirilinesi ve her bir mammının 164 anılın enteger lerkanı kontrolik mötor & pompulasi istemlerinle değiştirilinesi ve her bir mammının 164 anılın enteger lerkanı kontrolik mötor & pompulasi istemlerinle değiştirilinesi ve her bir kamamının 164 anılın enteger lerkanı kontrolik mötor & pompulasi istemlerinle değiştirilinesi ve her bir kamamının 164 anılın enteger lerkanı kontrolik mötor & pompulasi istemlerinle değiştirilesi ve kamamının 164 anılın enter kamamının 164 anılın ente



Âtıl durumdaki havalandırma ve klima ünite motorlarının IE4 sınıfı motorlar ile değişimi yapılıp, bütün motorlara pano tipi frekans konvertörü tesis edilecektir.

Ünite mekanik tahrik sisteminin dişli kayış kasnak sistemleri ile değişimi sağlanacaktır.





Enerji Verimliliği Odaklı Çalışmalar

Termostatik Vana Tesisi

Proje kapsamına giren türn yapıların radyatör peteklerinin tamamına köşe tipi termostatik vana tesisi önerilmektedir. (2024/2 (20%) Yedek)









Enerji Verimliliği Odaklı Çalışmalar

Aydınlatma Elemanları LED Dönüşümü

LED dönüşümü henüz gerçekleştirilmemiş E27 duylu dairesel armatürlerin, 800lm dairesel (downlight) sıva üstü LED aydınlatma armatürleri ile değiştirilecektir.





Enerji Verimliliği Odaklı Çalışmalar

Karamürsel-Gazanfer Rilee Yurdu'na: Detaylı Enerii Yönetim Sistemi (isatma sistemi damestik sıcak su üretimi varianiuseesaaanie nige ruud na, beavja erieji roiteanii soeria gazina saarin, bornesiak soon sa breum, siriililasyon motor &pompalari, güneş enerji sontroll) ve mekanik otomasyon sisteminii, EN ISO 50001. Enerji Yönetim Sistem şartlarına uygun biçinde kurulmas ve etkinliğinin sağlanması sureti ile toplam enerji tüketiminde -%0,27 elektrik, -%3,90 oranında doğalgaz tasarrufu elde edilebileceği hesaplanmıştır.







Enerji Verimliliği Odaklı Çalışmalar

Dis cephe kontrolleri neticesinde; yapılan hesaplamalar ile TS 825 asgari sartlarının karşılanmadığını Day Ceptier kontroller i reaccessari, yapani nesapaninan ne 13 az.5 asgari yattarimi karyaannatagini göstemiştir. Bu çerçevede 10cm kalınlığında Us0,035Wm2/K şartını sağlayan taş yünü cephe kaplaması tesisi önerlimiştir. (Uygulama yüzey alanı: 5.140m2)









Enerji Verimliliği Odaklı Çalışmalar

Verinde yapıları inceleme neticesinde çatıda yapıları hesaplamalar mevcut termal yalınımı TS 825 şartlarını karşılamadiğini ortaya koşmaktadır. Bu çerçevede kullarılmayan kırma çatı arası mevcut mineria kaplamalarını sökülmesi veyerine, bir yüzü altımıyısını folyo kapıl camyünü çatı sitesi (Bern kalınlıkta, 0,035 s sılı iletlenliği < 0,040w/(m.k) olan) serilmesi (1900m2) önerilmiştir













02







ATLASCORT' HITT





ATLASCOT! HILL

ATLASCOT' HILL

Enerji Verimliliği Odaklı Çalışmalar



Enerji Verimliliği Odaklı Çalışmalar

Yapılan hesaplamalar neticesinde belirlenen önlem senaryolarının hayata geçirilmesi ile toplam enerji tüketiminde 34,23% oranında tasarruf elde edilebilecek, yaklaşık 284,94 ton/yıl sera gazı emisyonu engellenebilecektir. Söz konusu renovasyonlar ve yenilenen sistemlerin EN ISO 50001 Enerji Yönetim Sistem şartlarına uygun biçimde işletilmesi ile yıllık **144.097,06 kWh elektrik, 1.106.043,21 kWh doğalgaz** tasarrufu sağlanabilecektir. Söz konusu tasarrufun maddi boyutu yaklaşık 1.782.124,18 ₺/yıl seviyesindedir.

İş Sağlığı & Güvenliği

Yapım sürecine ilişkin, iş sağlığı ve güvenliği planları hazırlanmıştır. Yüklenici firmanın; Tarafımızca hazırlanan İŞ SAĞLIĞİ GÜVENLIĞİ PLANI doğrultusunda, sorumlu olduğu bütün çalışmaları



kapsar mahiyette İS SAĞLIĞI GÜVENLIĞİ PLANI ve Risk Analizini hazırlaması ve Müsavir onavına sunması zaruridir. Ancak söz konusu plan, analizlerin uygun görülmesi sonrasında çalışmalar başlayacaktır Paydaşlanmızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

Mobil vinc, kompresör vib. iş makinderinin tamamının perkyodik muayene raporlarının temin edilmiş olması ve makindele içinde bazır bulundurulması zarurldir. Sök komuzu makinder, yetkili operatörler tarafından kullanılabilir. Operatörler yetki belgelerini hazır bulundurmalı ve saha kontrolleri, denetimleri exsusanda yetkilili Sü uzmanlarınını telepleri doğrultusunda beyon edebilmelidir.



İş Sağlığı Güvenliği

- Sahada kullarıları her türlü elektrikli cihaz/ekipmanın elektrik açdan görenli okluğunu gösterir PAT testleri yapılmış olmaldır. Söz konusu ekipmanların tamamında cihaz üzerlerinde uygurluğu gösterir etiketler yer almalıdır.
- $Ancak uygun \textbf{\textit{Mesleki Yeterlilik Belgesine}} sahip çalışanların sahaya girmelerine izin verilecektir.$
- $\bullet \ \ \text{B\"{u}t\'{u}n çalışanları görevleri çerçevesinde uygun$ **kişisel koruyucu ekipmanlara**sahip olmalı ve etkin olarak kullanmalıdır.Bütün çalışanların, «Ternel İSG Eğitimini», «Risk Analizi Eğitimini» almış olması zaruridir.
- Yüksekte çalışacak personellerin «Yüksekte Çalışma Eğitimi» almış olması zaruridir.
 Bütün çalışanların «EKED Etiketle Kliftle Emniyete Al Dene Eğitimini» almış olması zaruridir.
- Çalışanların «İŞ SAĞLIĞI GÜVENLİĞİ PLANI» içinde belirtilen diğer ilgili eğitimleri çalışma öncesinde alması zarurldir.
- İş iskelelerinin TS EN 12811-1 standart şartlarını karşılarınsı esastır. Söz konusu iş iskelelerinde çalşacak bütün personellerin yüksekte çalşma eğitimi almış olmalan, paraşüt tipi emniyet kemeri ve düşme engelleyici ekipmanları
- Kampüs içinde İŞ SAĞLIĞI GÜVENLİĞİ PLANI içinde belirtilen «TRAFİK EYLEM PLANINA» uygun hareket edilmelidir.
- Yüklenici firma; bu çalışma sahası özelinde acil durum eylem planları geliştirmeli ve bütün çalışanlarını kapsar mahiyette tatbiladlar gerçekleştirmelidir.



İş Sağlığı Güvenliği

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



- Baret TS EN 397+A1
- Kulak Tikacı TS EN 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
 - Paraşüt Tipi Emniyet Kemeri TS EN 361 (Sadece yüksekte çalışanı)



İş Sağlığı Güvenliği

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





Trafik Eylem Planı





Sağlık & Güvenlik Organizasyonu





Çevresel Etkiler

Proje sahası, **Karamikrsel- Gazanfer Bilge Öğrenci Yurdu alanı İçerisindedir.** Kampüs dışında yer alan diğer binalam inşast süreçlerinden <u>doğrudan</u> etkilenmeleri söc konusu değildir. Pasifyet alanı çevresi aşabda göttərimiştir.





















ATLASCOT! HILL





Çevresel Etkiler



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

Çevresel Etkiler



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

- Çevresel ve Sosyal Etkiler

Çevresel Etkiler



Atık Yönetimi İnşaat, Hafriyat Atıkları

- İnşaat/yılıntı atıklarının kazanılması ve özellikle alit yapı malzemesi olarak yeniden değerlendirilmesi öncelliki darak ele alınacaktır. Hafriyat atıldan liğifi belediyenin atık depolama tesisine gönderlecektir. Atıkların sahayakabu edileceğilen dali Belediyevinden resmiyaz alınarak (darqves sundacaktır.



Çevresel Etkiler



Atık Yönetimi

Tehlikeli Atıklar:





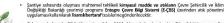
- Proje sahasında tellekir ilektirin geçil ölenik depolarınsa durumunda atıları salakır, salamı, salmını, emnyedili ve ulunlaranısı kalalı gürnüş sahadıratı yayın kortiyaverlerin de yor ile ileçili engilerinde mahafazı edilecek, kortiyarelerin üzerinde ethilikeli atık ilaserine yer verilecek ve depolanısı matokeni atılak kodu, miktar, keşili (koellikelir, konuma koyallanı ve depolanısı tartik korteylerinde edilerin yöklerid filmen barqılından mevasatı uygur olarak Deversile klarasından ibi olarak belilimencek ve milyolerisek klarasından ballıklırıladı.
- Zararlı maddelerin saldandığı konteynerler ve atık yağlar toprağa dökülme ve sırıntıyı önlemek için sızdırmaz beton alanlara yerleştirilecektir.
- Zehirli içeriğe sahip boyalar, eritici madde (solvent) ya da kurşun bazlı kimyasallar kullanılmayacaktır.

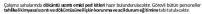


Çevresel Etkiler

Atık Yönetimi

Tehlikeli Atıklar;





- Orta ve büyük ölçekli çevresel kazaların oluşması halinde, kaza araştırması yapılacak ve raporlanacaktır.
- Tadilat/inşaat çalışmaları sırasında sökülen kullanılmış floresan lambalar ruhsatlı tesislerde bertaraf edilecektir. Malzemenin taşınmasına ve bertarafına ilişkin gerekli belgeler, inşaat şantiyesinde tutularak ve istenine ÇİDBVe Düriya Bankası'nalizar edilecektir.



Çevresel Etkiler

Atık Yönetimi

Evsel Atıklar:



- Oluşacak evsel nitelikli atıklar kayrağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir olarıların geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verileceklir.
- Gerl kazanımı mümkün olmayan attiklar, ağzı kapalı sıhhi çöp bidonlarında biriktirilecek, Yetkili Belediyenin katı attık toplama sistemi aracılığıyla düzenli depola ma sahalarına göndenlecektir.

Ambalaj Atıkları;

- 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;

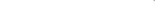
- Söz konusu çalışmaların, bina dayanımını olumsuz etkilemesi söz konusu değildir.
- Güçlendirme ve renovasyon çalışmaları esnasında, kullanıcı ve diğer paydaşların çalışma sahalarına yaklaşma maları hususunda yapıları uyarıları di kkate alarak destek vermenizi rica ediyoruz.
- yanagırısınanı masununu yapının uranı uranı ara kesine kerrenizi inde bulyoruz.

 Güçlendirme ve Renovasyon çalışmaları sonrası; çalışma sahalarında gerekli düzenlemeler, görevli personeller tarafında ngerçekleştirilecektir. Bu konuya ilişkin şikayetlerindi kirfen bize bildirin.



- Projede görev alan çalışanların, hiç bir koşul altında paydaşlar ile tartışmaması hususunda gerekli uyanlar yapılacaktır. Böyle bir drurunla karşılaşılması halinde öneri ve şikayet mekanitmaları vasıtasıyla bizlere ulaşmanızı bekliyoruz. (Olen il şikayet sürin.)
- Bütün çalışanlarayırıncılık, cinsiyet temelli şiddet konusunda bilgilendirilecektir ve proje kapsamında bu tip davranışlara hiçbir şart ve koşul altında izin verilmeyeceği bil dirilmiştir. Bu yakdaşıma ayları hareket ederilerin projede görev almanınaya ak oğrevlerinin devamlılığına müsade edil meyecektir.





Sosyal Etkiler

Proje kapsamında, Müşəvini Yüklenici personeline vereceği eğitimler sonucunda yüklenici firmanın kurumsal kapsılısının gelişimcəl beklermektecir. Bu eğitimler aşağıda listelenmiştir. Çevresel ve Sonyal Etikler



- Paydas Katılım/Bilgilendirme Faaliyetleri
- Şikayet Mekanizması (ŞM)
 Cinsiyet Eşitliği / Cinsiyet Ternelli Şiddet/Cinsel Sömürü/Cinsel Saldırı/Cinsel Taciz
- · Dayrans Kurallan
- Tarihi Mirasın Korunması





ATLASCOT! HILL

Yüklenici firmaların uymaları gereken iş sağlığı ve güvenliği kuralları ile genel çevrese sosval etkiler/önlemler; bu prole özelinde hazırlanan İSG PLANI ve CEVRESEL ve SOSYAL YÖNETİM PLANI içinde açıklarmıştır.





















Öneri Şikayet Sistemi



Oneri ve şikayetlerinizin; içeriği ne olursa olsun, nasıl kaleme alınırsa alınsın bizin için değeri olduğunu bilmenizi istiyoruz. Genel etik likelere ulyunı iletozoğiniz önen ve şikayetlerinizeln dalayı olumsuz herharagi bir ulurunla karşılaşmayacağınızı, eleştilmeyeceğinizi garanti ediyoruz. Öneri ve şikayetlerinizi hangi yörtemle iletirsezi *keltir (şikayetkutular)*, mail, internet formları, yüz yüze sözlü ya da telefori) heysi ayrı şeklide değerendirik, iramanı gizi bilgi statibisindedir, sıraslızız kınut urafından

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



Öneri Şikayet Sistemi

Cents, Sjehrcilik ver liktin Doğuğuğu Bakarılığırın (ÇGIDE) hen telefori herni de sele sitele urasılığıyla erişilektin tür Yulfa'tı yardım hati varidi. Bu yardım hati vayın zamanda çülişilərilir, örürir. CSIDB barafındın sağlaman tim cevre ve şelirir harmidiri ile ilgili soru, talaçı ve şikayetler yardır. GSIDB barafındın sağlaman tim cevre ve şelirir harmidiri ile ilgili soru, talaçı ve şikayetler profesyonel darak yönellen ALO 181 çağın merkezi tarafından yerillerimlektidir ye de Proje Uygulama Birimin cildimidistokir.

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

: Alo 181 : 0312 586 4858 : yigmkadev@csb.gow.tr : https://kadevoneri.cs





ATLASCHT HILL İlgi ve anlayışınız için teşekkür ederiz!





