IN PUBLIC BUILDINGS
EARTHQUAKE RESISTANCE & ENERGY EFFICIENCY PROJECT
(KADEV PROJECT)

BOSPHORUS UNIVERSITY
SARITEPE (KLYOS) CAMPUS

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

SEPTEMBER
2023

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Abbreviations

BOUNBoğaziçi University
BPBanka Procedure
CIMERT .C. Presidential Communication Centre
E&SEnvironmental and Social
Environmental Assessment
EIAEnvironmental Impact
Assessment ESAEnvironmental
and Social Framework
EHSEnvironment , Health and
Safety
ESS Environmental and Social Standards
ESMFEnvironmental and Social
Management Framework ESMPEnvironmental
and Social Management Plan
Ministry of Environment, Urbanisation and Climate Change
WBWorld Bank
dBNoise Abatement and Control
dBCNoise Assessment Measure
EKEDEtiketle Lock Lock Secure
Try GESSolar Power Plant
ILOUInternational Labour
Organization M&E Monitoring
and Evaluation
ITUIstanbul Technical
University OHSOccupational Health
and Safety
KADEVEarthquake Resistance and Energy Efficiency in Public Buildings
PPE PPEPersonal Protective Equipment
ConsultantTümaş & ATLASCert® & Hill Partnership
PIUProject Implementation Unit
PVPhotovoltaic Panel
SGKS Social Security
Institution ŞMComplaint
Mechanism
GDoIIGeneral Directorate of Construction Works

Executive Summary

Earthquake Resistance and Energy Efficiency in Public Buildings (KADEV) Project focuses on seismic retrofitting and energy efficiency in public buildings such as higher education buildings, dormitories, social service institutions, hospitals and government mansions which are under high seismic risk and have low energy efficiency. In this context, this project with reference number WB/CS-DESSUP-01 covers 32 buildings in 11 campuses including Boğaziçi University (BOUN), Marmara University, Istanbul Technical University (ITU), Istanbul University, Sakarya Government House, Kocaeli student dormitories (2 units).

This document provides information about the structural retrofitting and energy efficiency-oriented improvement works of the School of Foreign Languages (YADYOK) A and B Blocks, Social Facility and 1st Student Dormitory buildings located within BOUN Sarıtepe (Kilyos) Campus, and includes the measures to be taken in order to keep the negative environmental and social impacts that may occur during the works at an acceptable level or to eliminate them, and the measures to be taken in occupational health and safety issues. In addition, this Environmental and Social Management Plan (ESMP) provides information about the stakeholder engagement activities to be carried out within the scope of the project and the grievance mechanism (Grievance Mechanism) to be established and sets out the duties and responsibilities of the relevant parties within the scope of the project.

Introduction

This Environmental and Social Management Plan (ESMP) has been prepared within the scope of the Earthquake Resistance and Energy Efficiency in Public Buildings (KADEV) Project to identify the measures to be taken to ensure that the adverse environmental and social impacts and risks that may be caused by the structural retrofitting and energy efficiency-oriented renovation activities to be carried out in three buildings consisting of eight blocks located in Boğaziçi University Sarıtepe (Kilyos) Campus located at Gümüşdere Mahallesi Sarıyer/İstanbul are kept at an acceptable level or eliminated.

This ESMP, which has been prepared primarily in accordance with the Turkish legislation and in addition with the policies, standards and measures of the World Bank (WB), clearly sets out who, when, how often and how the measures to be taken during the project implementation phases will be implemented.

1. General Project and Project Site Information

1.1 Project Description

1.1.1. General Information & Target

The overall objective of the Earthquake Resistance and Energy Efficiency in Public Buildings (KADEV) Project is to retrofit public buildings (education buildings, dormitories, hospitals and administrative buildings), which are inefficient in terms of energy use and have a high earthquake risk, against earthquakes and to ensure energy efficiency.

With the project, it is aimed to determine the behaviour 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 CO_2 emissions, to monitor and control energy consumption, to close the current deficit caused by energy, and to develop the sector and raise awareness by creating a model for making all public buildings in Turkey energy efficient after the project.

KADEV Project provides the retrofitting of existing buildings against earthquakes and making them more efficient, as well as raising social awareness on earthquake and energy efficiency.

Structural retrofitting works include building structural system improvements and additions, as well as activities such as grouting and micro-piling related to ground reinforcement *(limited only to the grounds of the buildings within the scope)*. Energy efficiency oriented works 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, and electricity generation through the installation of solar panels.

Within the scope of the Environmental and Social Standards defined in the World Bank's Environmental and Social Framework (ESF), KADEV Project is considered to have an Environmental Risk Rating of "Medium" since the activities to be carried out will not create irreversible adverse environmental and social impacts and risks, the potential impacts/risks are temporary and reversible, the potential impacts/risks are moderate in terms of magnitude and quality, and the sub-project sites are not in sensitive areas in terms of environmental and social risks and impacts. In addition, they are not expected to have serious negative impacts on human health and the environment.

All of the buildings within the scope of the sub-project subject to this ESMP are located in an isolated area within the BOT Sarıtepe (Kilyos) campus. It is not possible for other buildings/structures outside the university or the district to be directly affected by the project activities in question. In addition, the buildings within the campus, which are currently vacant, will be taken out of use during the construction activities. Therefore, there is no overlap between the project activity schedule and daily activities.

This ESMP has been prepared as a guideline document for KADEV Project in order to eliminate environmental impacts such as waste generation (hazardous, non-hazardous), air and water pollution, public health and safety and occupational health and safety (OHS) impacts and risks, taking into account the World Bank (WB) and National relevant legislation requirements, and if it is not possible to eliminate them completely, to reduce them to an acceptable level.

The project will be implemented by the General Directorate of Construction Works (GDoII) of the Ministry of Environment, Urbanisation and Climate Change (MoEUCC) with WB financing. DGoII will be responsible for the control, management and coordination of the overall implementation of the Project. The consultant company will be responsible for the preparation and implementation of the ESMP and the contractor company will be responsible for the implementation of the ESMP in the field. As a result of the meetings held with Boğaziçi University, the beneficiary institution, the

buildings with Earthquake Performance Report have been evaluated and their location, intended use and Project selection criteria have been assessed.

Considering the three campuses located in Sarıtepe (Kilyos) Campus within the borders of Sarıyer district (3) buildings were prioritised. The three selected buildings consist of eight blocks.

1.1.2 Project Information

Satellite images of the buildings located in Sarıtepe Kilyos Campus within the scope of the project and detailed information about the buildings are given in Figure 1 and Table 1, respectively.

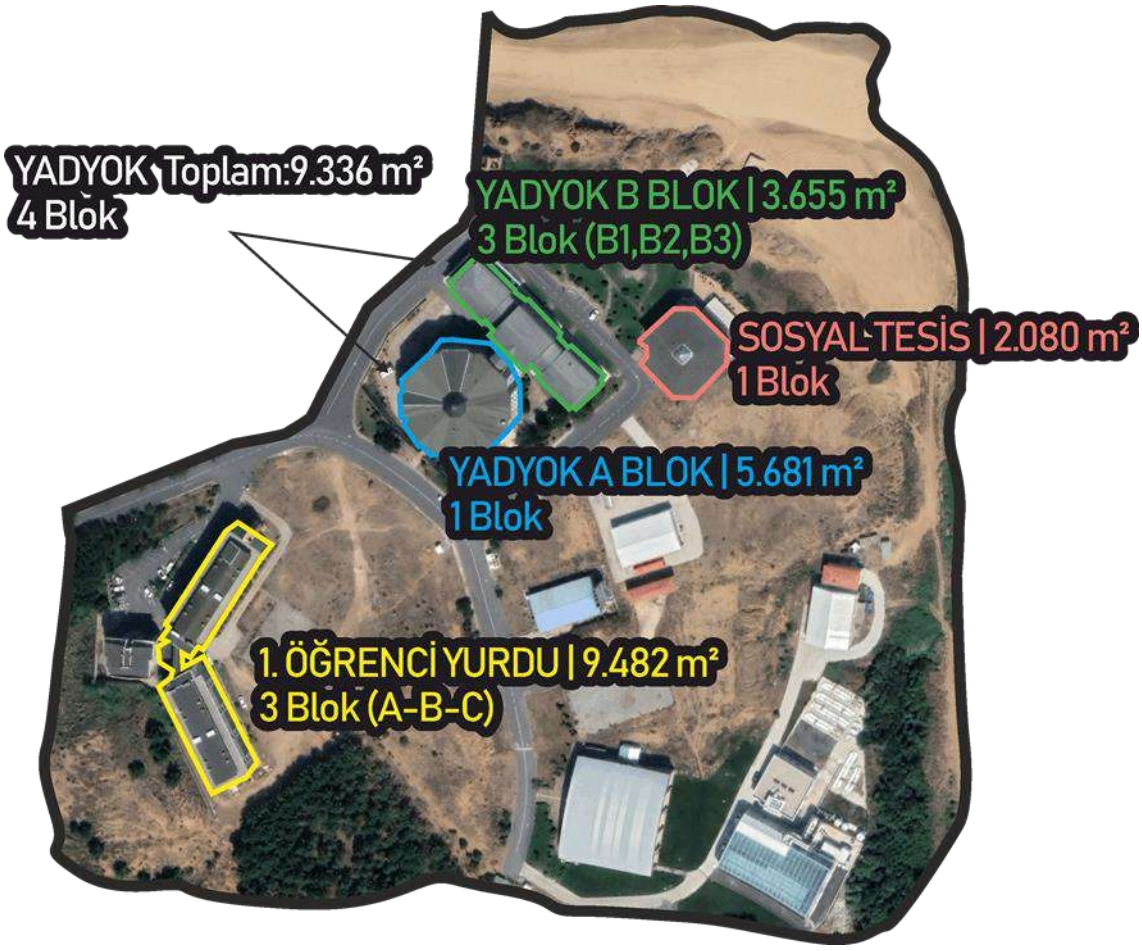


Figure 1: BOUN SARITEPE (KİLYOS) CAMPUS BUILDINGS IN THE SCOPE OF THE PROJECT

Table 1: BUILDING GENERAL INFORMATION

CAMPUS NAME	Boğaziçi University Sarıtepe (Kilyos) Campus
BUILDING NAMES ***(involved in the project)***	• 1st Student Dormitory - (9482m)^2 • Dormitory & Social Facility (2080m)^2 • YADYOK (School of Foreign Languages) A & B BLOCK (9336m)^2
IL	ISTANBUL
PROVINCE	SARIYER
NUMBER OF USERS	~4,500 people
BUILDING INFORMATION	
CONSTRUCTION AREA	~20.900,00m^2

PLANNED PRODUCTIONS IN ALL BUILDINGS INCLUDED IN THE PROJECT	
STRUCTURAL REINFORCEMENT	• Building ground reinforcement (Micro Piling) • Reinforcement of existing structural system • Additional carrier system manufacturing • Floor, ceiling, wall, door renovations due to structural reinforcement activities
ENERGY EFFICIENCY	• Facade and roof thermal insulation • Door replacements • Circulation system motor/pump changes • Non-insulated installation elements, thermal insulation of heat exchangers • Central boiler replacements • Additional heat pump plant (to be integrated into the existing mechanical installation to meet/support the need for internal air conditioning) • Lighting element replacements (one-to-one replacements will be carried out, electrical installation intervention (lineman, column line replacement, etc.) is out of the question) • Self-consumption oriented solar power plant (rooftop) (integrated into the existing supply line) to be done) • Energy monitoring and automation system installation (to be integrated into the existing electricity system)
DURATION AND SEASON OF ACTIVITIES	
All works to be carried out within the scope of the Project will be carried out between the fourth quarter of 2023 and the third quarter of 2024. The Contractor is obliged to complete the works in the buildings as set out in the Terms of Reference within the planned timeframe. At the same time, the Contractor shall clearly and in advance inform all stakeholders about the timetable of construction activities before starting any construction works.	
NUMBER OF WORKERS EXPECTED TO WORK	
It is estimated that the number of employees in the buildings will be 90 personnel/day in total.	

1.1.3 Campus & Building Locations

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

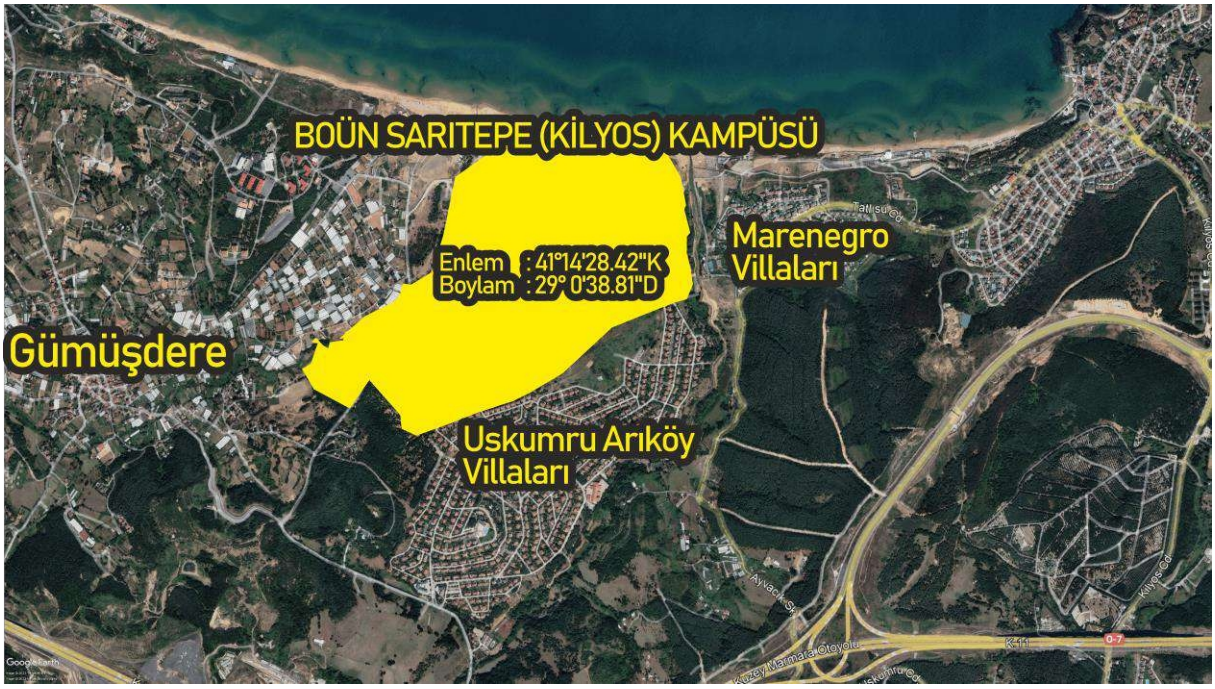


Figure 2: CAMPUS BOUNDARIES AND COORDINATES

The coordinates and approach limits of the buildings within the scope of the Project are given in Figures 3-4-5-6.

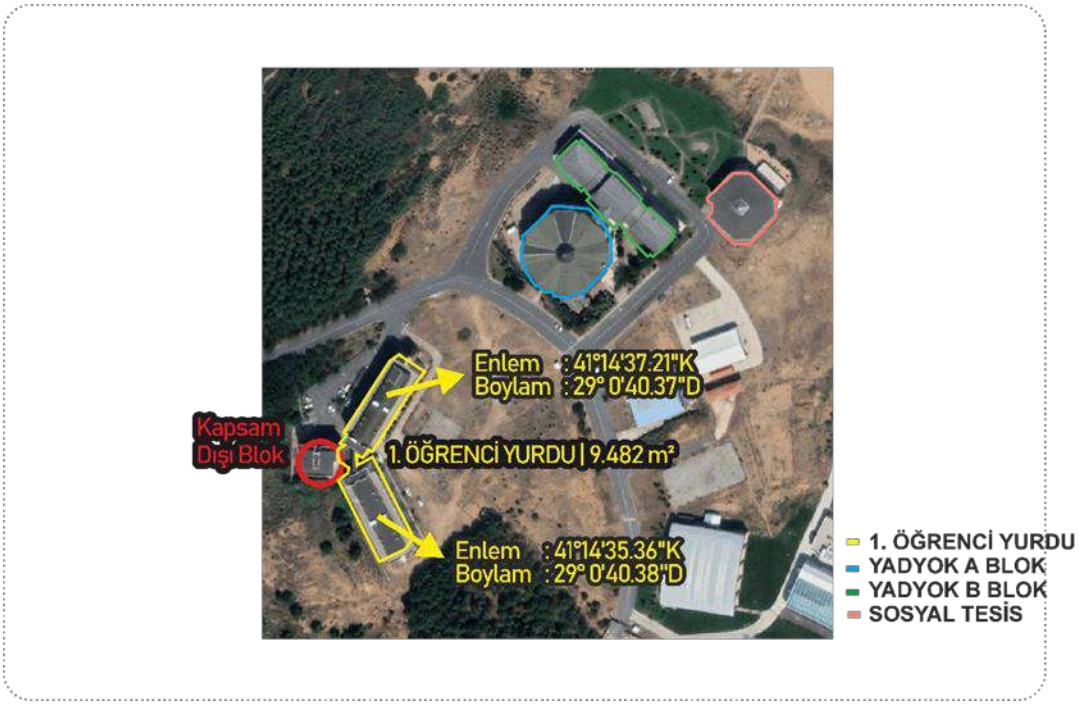


Figure 3: 1st STUDENT DORMITORY BLOCK COORDINATES & OUT OF SCOPE BLOCK

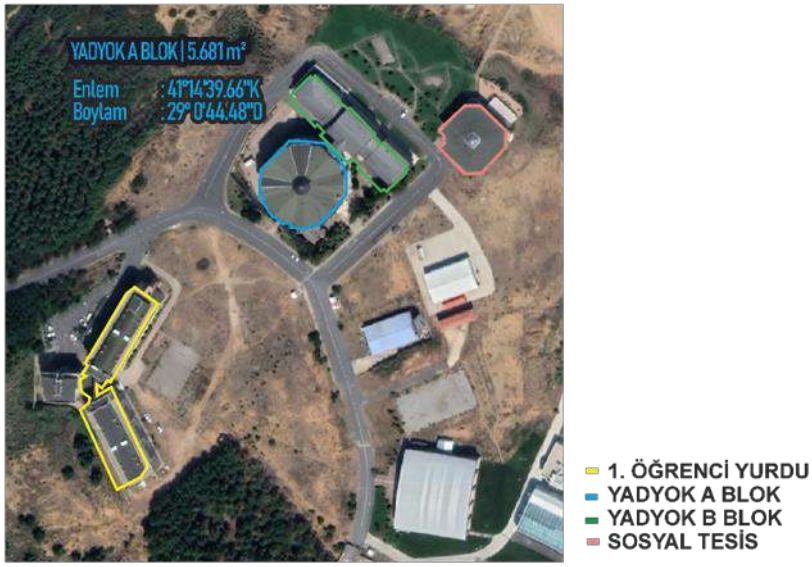


Figure 4: YADYOK A BLOCK COORDINATES

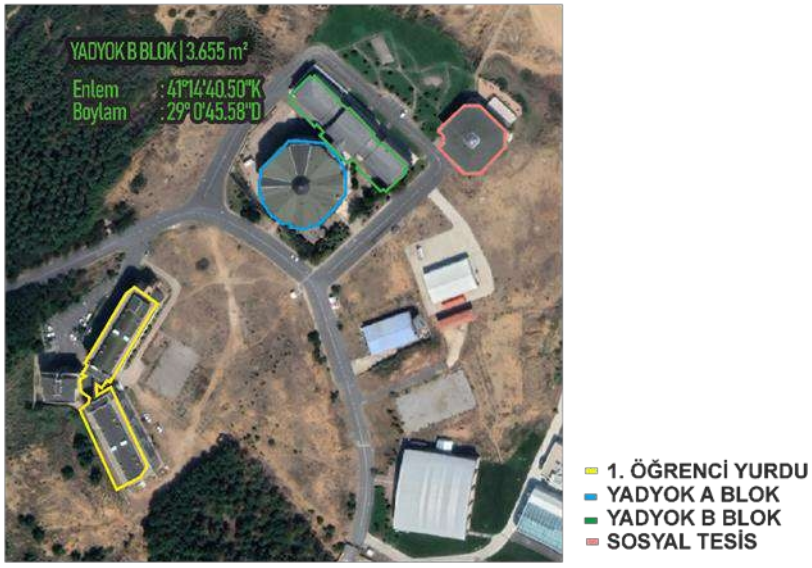


Figure 5: YADYOK B BLOCK COORDINATES

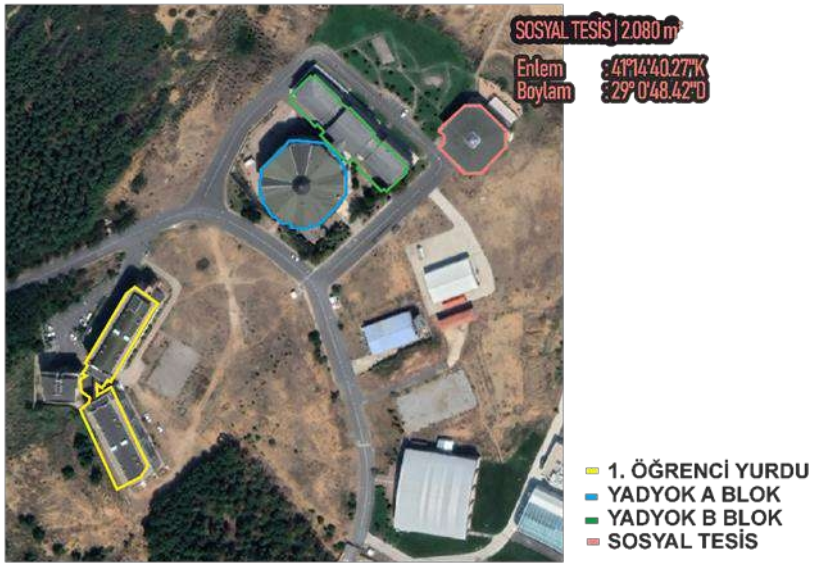


Figure 6: SOCIAL FACILITY COORDINATES

Within the scope of the ground improvement works required for the retrofitting of the buildings within the scope of the project, an impact area of approximately 100 m (the distance it can affect when it moves) was foreseen by considering the movements of the drilling machines and processed on the satellite image in Figure 7. In addition, the possible negative impacts that may occur during the reinforcement construction in the buildings, such as noise and dust generation, traffic increase, parking space shortage, visual impacts, are limited to 160 m and the major impact area is also shown in Figure 7.

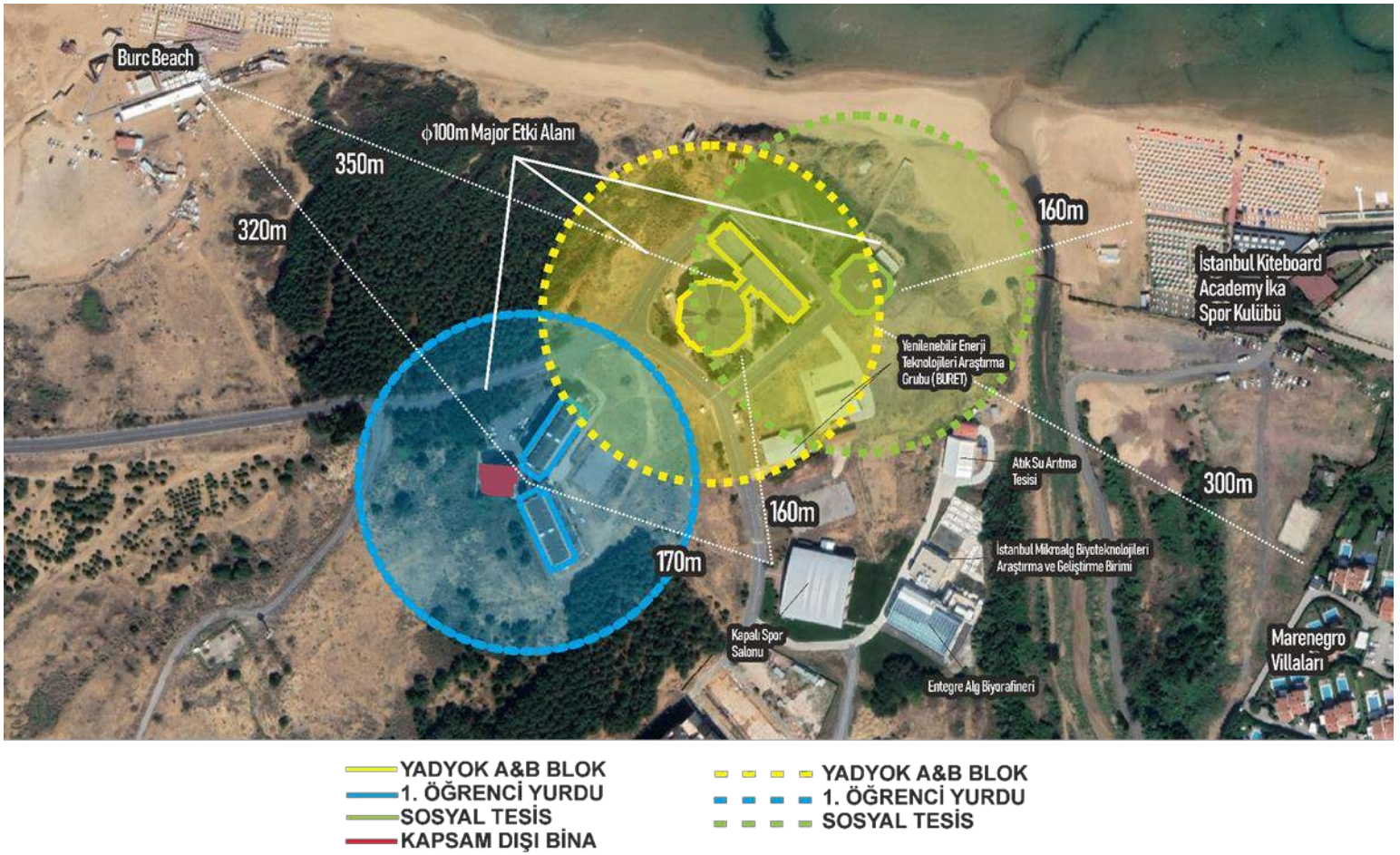


Figure 7: APPROACH DISTANCES AND MAJOR IMPACT AREA OF THE BUILDINGS IN THE PROJECT SCOPE

Solid models of the buildings within the scope of the Project are given in Annex I.

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

2.1 National Legislation

The ESMP has been prepared primarily in accordance with the legislation of the Republic of Turkey. The basic framework of Turkey's environmental legislation is the Environmental Law (No. 2872) published in the Official Gazette dated 11 August 1983 and numbered 18132 and lastly revised in the Official Gazette dated 15.06.2022 and numbered 31867, and is supported by regulations. Below are the regulations that are/will be used primarily 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 Control of Packaging Wastes, Official Gazette dated 26 June 2021 and numbered 31523
   It was published in the Gazette.
3. The 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 amended in the Official Gazette dated 09 October 2021 and numbered 31623.
4. Air Quality Assessment and Management Regulation was published in the Official Gazette dated 06 June 2008 and numbered 26898.
5. Regulation on Prevention of Risks of Exposure to Biological Agents, 15 June 2013
   published in the Official Gazette dated 28678 and numbered 28678.
6. The Zero Waste Regulation was published in the Official Gazette dated 12 July 2019 and numbered 30829 and amended in the Official Gazette dated 09 October 2021 and numbered 31623.
7. The Regulation on the Control of Soil Pollution and Point Source Contaminated Sites was published in the Official Gazette dated 8 June 2010 and numbered 27605 and lastly revised in the Official Gazette dated 11 July 2013 and numbered 28704.
8. The Regulation on Water Pollution Control was published in the Official Gazette dated 31 December 2004 and numbered 25687 and lastly amended in the Official Gazette dated 17 December 2022 and numbered 32046.
9. The Regulation on Environmental Noise Control was published in the Official Gazette dated 30 November 2022 and numbered 32029.
10. The Regulation on Noise Emission in the Environment Generated by Outdoor Equipment was published in the Official Gazette dated 30 December 2006 and numbered 26392 and amended in the Official Gazette dated 06 June 2017 and numbered 30088.

Activities will be carried out in accordance with the Labour Law No. 4857 published in the Official Gazette dated 10 June 2003 and numbered 25134 and the Occupational Health and Safety Law No. 6331 dated 30 June 2012 and the related regulations and related legislation on Occupational Health and Safety issues, whose priority impacts are considered within the scope of the Project. The regulations to be used primarily are stated below.

1. The Regulation on Health and Safety Measures in Working with Asbestos was published in the Official Gazette dated 25 January 2013 and numbered 28539 and amended in the Official Gazette dated 16 January 2014 and numbered 28884,
2. The Regulation on Manual Handling Works was published in the Official Gazette dated 24 July 2013 and numbered 28717.
3. The Regulation on Occupational Health and Safety in Temporary or Fixed Term Work was published in the Official Gazette dated 23 August 2013 and numbered 28744.
4. The Regulation on Health and Safety Measures at Work with Chemical Substances was

published in the Official Gazette dated 12 August 2013 and numbered 28733.

5. The Regulation on the Use of Personal Protective Equipment in Workplaces was published in the Official Gazette dated 02 July 2013 and numbered 28695.
6. Regulation on Health and Safety Signs, Official Gazette dated 11 September 2013 and numbered 28762
   It was published in the Gazette.
7. The Regulation on the Vocational Training of Those to be Employed in Dangerous and Very Dangerous Classes was published in the Official Gazette dated 13 July 2013 and numbered 28706 and amended in the Official Gazette dated 11 May 2017 and numbered 30063,
8. The Regulation on Combating Dust was published in the Official Gazette dated 5 November 2013 and numbered 28812.
9. The Regulation on Occupational Health and Safety in Construction Works was published in the Official Gazette dated 5 October 2013 and numbered 28786 and amended in the Official Gazette dated 31 December 2018 and numbered 30642.
10. The Regulation on the Protection of Employees from Noise-Related Risks was published in the Official Gazette dated 28 July 2013 and numbered 28721.
11. The Regulation on the Procedures and Principles of Occupational Health and Safety Training of Employees was published in the Official Gazette dated 15 May 2013 and numbered 28648 and amended in the Official Gazette dated 24 May 2018 and numbered 30430.
12. The Regulation on Health and Safety Conditions in the Use of Work Equipment was published in the Official Gazette dated 25 April 2013 and numbered 28628 and amended in the Official Gazette dated 18 February 2022 and numbered 31754.
13. The Regulation on the Duties, Authorities, Responsibilities and Training of Occupational Safety Experts was published in the Official Gazette dated 29 December 2012 and numbered 28512 and amended in the Official Gazette dated 6 July 2021 and numbered 31533.
14. The Regulation on Occupational Hygiene Measurement, Testing and Analysis Laboratories was published in the Official Gazette dated 24 January 2017 and numbered 29958.
15. The Regulation on Occupational Health and Safety Services was published in the Official Gazette dated 29 December 2012 and numbered 28512 and amended in the Official Gazette dated 6 July 2021 and numbered 31533.
16. The Regulation on Occupational Health and Safety Risk Assessment was published in the Official Gazette dated 29 December 2012 and numbered 28512.
17. The Regulation on Emergency Situations in Workplaces was published in the Official Gazette dated 18 June 2013 and numbered 28681 and amended in the Official Gazette dated 1 October 2021 and numbered 31615.
18. The Regulation on Suspension of Work in Workplaces was published in the Official Gazette dated 30 March 2013 and numbered 28603 and amended in the Official Gazette dated 11 February 2016 and numbered 29621.
19. The Regulation on the Duties, Authorities, Responsibilities and Training of Workplace Physicians and Other Health Personnel was published in the Official Gazette dated 20 July 2013 and numbered 28713 and amended in the Official Gazette dated 6 July 2021 and numbered 31533.
20. The Regulation on Health and Safety Precautions in Working with Display Screen Devices was published in the Official Gazette dated 16 April 2013 and numbered 28620.
21. The Regulation on the Protection of Workers from Risks Related to Vibration was published in the Official Gazette dated 22 August 2013 and numbered 28743.
22. The Regulation on Supporting Occupational Health and Safety Services was published in the Official Gazette dated 24 December 2013 and numbered 28861.
23. The Regulation on Occupational Health and Safety Committees was published in the Official Gazette dated 18 January 2013 and numbered 28532.
24. Regulation on Health and Safety Measures to be Taken in Workplace Buildings and Annexes,

17
Published in the Official Gazette dated July 2013 and numbered 28710.

25. The Regulation on the Conditions of Employment of Pregnant or Breastfeeding Women, Breastfeeding Rooms and Childcare Facilities was published in the Official Gazette dated 16 August 2013 and numbered 28737 and amended in the Official Gazette dated 7 September 2019 and numbered 30881.
26. The Regulation on the Conditions of Working Women Employees in Night Shifts was published in the Official Gazette dated 24 July 2013 and numbered 28717 and amended in the Official Gazette dated 19 August 2017 and numbered 30159.

In order to determine the basic insurance rights of all workers during their employment, the Social Insurance and General Health Insurance Law No. 5510 dated 16.06.2006 will be applied.

In addition, the Environmental Impact Assessment (EIA) Regulation published within the scope of Article 10 of the Environmental Law was first published in the Official Gazette dated 7 February 1993 and numbered 21489 and entered into force and was finally revised by being published in the Official Gazette dated 29 July 2022 and numbered 31907. Since the areas where the construction activities will be carried out will be existing buildings belonging to the public, the project is not subject to the EIA regulation.

Significant social and environmental impacts from the Project are likely to affect sensitive receptors[1] located in the vicinity of the Project site. In this context, careful management of ESMPs and OHS activities will be sufficient to minimise environmental and social impacts.

2.2 International Conventions

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

[1] **1.1.3** In the site plans given under the heading **Campus & Location of Buildings** (Figure 7), other buildings around the buildings to be renovated are indicated.

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

The World Bank Environmental and Social Framework[2] (ESF) and related Environmental, Health and Safety (EHS) Guidelines[3] will be complied with in all phases of the Project along with national legislation.

The Environmental and Social Standards (ESS), summarised in Annex II, are one of the components of the World Bank Environmental and Social Framework and set out the requirements for the project proponent in relation to the identification and assessment of environmental and social risks and impacts associated with World Bank supported projects. The applicability of the World Bank Environmental and Social Standards to the KADEV Project is summarised in Table 2.

Table 2: APPLICABILITY OF WORLD BANK ENVIRONMENTAL AND SOCIAL STANDARDS TO THE PROJECT

Environmental and Social Standard	Applicability
ESS1: Assessment and Management of Environmental and Social Risks and Impacts	Yes
ESS2: Labour and Working Conditions	Yes
ESS3: Resource Efficiency and Pollution Prevention and Management	Yes
ESS4: Community Health and Safety	Yes
ESS5: Land Acquisition, Restrictions on Land Use and Involuntary Resettlement	No.[4]
ESS6: Conservation of Biodiversity and Sustainable Management of Living Natural Resources	No.[5]
ESS7: Indigenous Peoples/Sub-Saharan Africa Historically Under-Served Traditional Local Communities	No.[6]
ESS8: Cultural Heritage	Yes
ESS9: Financial Intermediaries	No.[7]
ESS10: Stakeholder Engagement and Information	Yes

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

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

[4] No activities to be carried out within the scope of this project will result in land acquisition, any restrictions on land use and/or involuntary resettlement and all works will be carried out within the existing buildings.

5 There will be no interaction with natural resources and/or biodiversity elements due to any activities to be carried out within the scope of the Project.

[6] There is no indigenous group in Turkey that fulfils the definition given in ESS7.

[7] Since no financial intermediary institution is involved in this project, ESS9 will not be applied in this project.

3. Activities to be carried out within the scope of the Project

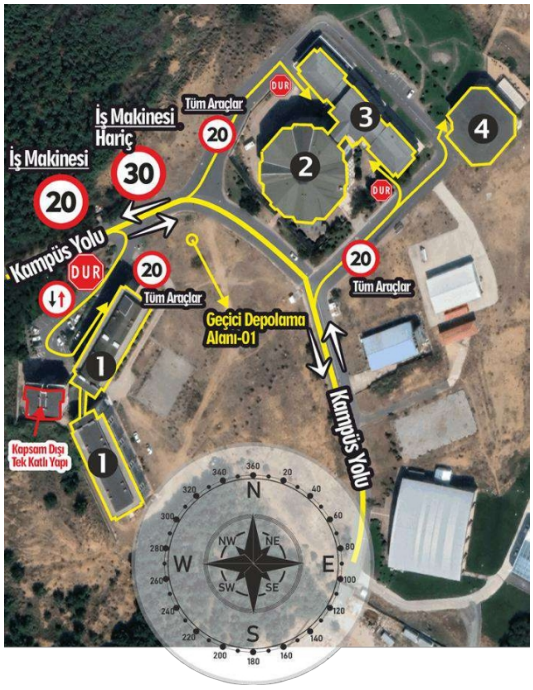
Summary technical information on the structural retrofitting and energy efficiency works to be carried out at Boğaziçi University Sarıtepe (Kilyos) Campus located in Sarıyer/İstanbul is given in Table 3 below. This ESMP will be available to all stakeholders at the construction sites and on the project website (www.kamuguclendirme.csb.gov.tr). It should also be published on the project and Boğaziçi University websites 7 days prior to the Participation Meeting so that stakeholders can review the document with sufficient information about the project prior to the Participation Meeting. The Contractor will employ a full-time environmental and occupational health and safety (OHS) specialist and the Construction Control Consultant will employ an environmental, social and OHS specialist. The Consultant, Contractor and the Project Implementation Unit of the Ministry will be responsible for recording and responding to environmental, social and environmental questions and comments received from stakeholders.

Table 3 SUMMARY INFORMATION RELATED TO THE STUDIES TO BE CARRIED OUT

FIELDWORK	
DEFINITION OF GEOGRAPHICAL, PHYSICAL, BIOLOGICAL, GEOLOGICAL, HYDROGRAPHIC AND SOCIO-ECONOMIC CONTEXT	As a result of the ground investigations, liquefaction risk was encountered. In order to eliminate this risk, the soils of the buildings within the scope of the project will be reinforced by soil injection. During this process, sealing piles will be driven at a depth of (2-5m) from points close to the building facade, and after the piles are processed, concrete will be poured into the voids in the building ground, so that the injection methodology will be applied at a certain angle from the points determined around the building. In this way, the injection of pressurised cement grout into the ground at the base of the foundations from the perimeter of the structure (through the curtain formed by piles) by horizontal drilling under the foundation will be prevented from finding a path in the ground and spreading to the environment and will remain in the area at the base of the foundations, filling the voids and increasing the bearing capacity of the ground. This process is not expected to adversely affect underground biodiversity (underground nesting species) and plant roots (construction distance, depth, drilling width, concrete formula). If there are trees in the vicinity of the drilling application, the trees in question will be relocated. In this context, the surroundings of the buildings in question evaluated and risky areas were marked.  **Figure 8: RISKY VEGETATION SURROUNDING THE BUILDING OF THE 1st STUDENT DORMITORY**  **Figure 9: RISKY PLANT CULTURE SURROUNDING YADYOK A BLOCK**

	Soil surrounds the area where the Project activities will be carried out. Necessary measures will be taken to prevent contamination of soil with hazardous chemicals during the works to be carried out in this area. Measures to be taken regarding the unfavourable conditions that may occur are detailed in Section 5. is explained. No problems are foreseen in access to the project area and

	All infrastructure facilities such as electricity, water, sewerage, natural gas, internet, etc. required for studies can be accessed.
NEAREST SENSITIVE RECEPTORS SUCH AS HOSPITALS, HEALTH UNITS, PUBLIC BUILDINGS, HOUSES AND DISTANCE	The project site is located within the Sarıtepe Campus of Boğaziçi University. Other buildings located outside the campus are not directly affected by the construction processes. • The BOUN Renewable Energy Technologies Research Group (BURET) building, which is located within the major impact area of the YADYOK and Social Facility, and the Lodging building, which is located next to the student dormitories and excluded from the scope of the project, are also expected to be affected by the construction process. Detailed information on the subject and measures to be taken are provided in Section 5. In addition, at least 7 days prior to each stage of the construction process, the university management (there are no users since the buildings have been evacuated) will be informed prior to the works. The construction schedule will be kept on site, in a place visible to stakeholders, and updated throughout the project. • The measured distances of the buildings outside the university to the buildings within the scope of the project are given below. ▪ Istanbul Kiteboarding Ac. IKA Sport Kl. - 160-200m ▪ Marenegro Villas - 300-350m ▪ Burc Beach - 320-350m Due to its close proximity to the Project area, Istanbul Kiteboard in particular is likely to be affected by potential environmental and social risks/impacts (dust, noise, public health and safety, etc.) that may arise from Project activities. Measures to be taken to control, mitigate and/or eliminate potential environmental and social risks/impacts that may arise from Project activities are presented in detail in Section 5. • Istanbul Kiteboarding Ac, IKA Sports Club, Marenegro Villas and Burc Beach, which are located in close proximity to the Project area, are considered to be sensitive receptors and the measures to be taken to ensure that these sensitive receptors are not affected by potential environmental and social risks/impacts within the scope of the Project are presented in Section 5. There are no other sensitive receptors in the immediate vicinity of the Project area. The nearest full-fledged hospital to the Project site is Sarıyer Hamidiye Etfal Research Hospital. The hospital is located approximately 17 km from the project site (16.4 km via 1st Avenue and 17.6 km via Kilyos Sarıyer road). Considering the traffic situation, it will take approximately 30 minutes by car. This information will be taken into consideration during the preparation of OHS emergency action plans.

TRAFFIC ACTION PLAN	The satellite image of Boğaziçi University Sarıtepe Campus is given under the heading "1.1.3 Campus & Building Locations". When the satellite image in question is evaluated, it is not foreseen that there will be a problem in the transportation of the materials needed for construction activities. Access routes and rules are specified in the Traffic Action Plan.  **Figure 10: TRAFFIC ACTION PLAN**
INFRASTRUCTURE USED BY THE PROJECT SUCH AS SEWERAGE SYSTEM, ELECTRICITY, WATER NETWORK ETC.	During the construction w o r k s , the existing sewerage, electricity and water networks in the area will be used. Domestic wastes will be disposed of by making use of municipal services, while temporary storage areas will be established for other wastes and disposal by licensed companies will be ensured. In the event that any infrastructure service procurement is required for the project (overflow due to blockage in sewerage lines (Vidanjör service procurement), long-term power outage (mobile generator), long-term water outage (dust control with water tanker, etc.), existing infrastructure facilities will be evaluated and carried out in accordance with the relevant regulations.

NATIONAL LEGISLATION AND PERMITS APPLICABLE TO THE PROJECT ACTIVITY (E.G. INSTALLATION OF GES ETC.)	Existing Building Permits will be used for GES plant unlicensed electricity generation application. Documents to be taken for Unlicensed Electricity Generation are not limited to the following; • Documents required for Authorised Electricity Distribution Company-Call Letter, ▪ Unlicensed production connection application form, ▪ Fixed non-roaming subscriber number, ▪ Application of the fee Related Network operator receipt of deposit to the account, ▪ Single Line Diagram showing the technical specifications of the facility to be installed, ▪ SPP Technical Evaluation Form prepared by the General Directorate of Renewable Energy, staff programme ▪ Approved coordinated application sketch, ▪ Certificate of occupancy for roof type applications, • SPP Static Projects (rooftop SPP plants)-University Approval • "Connection Opinion" and "Call Letter for Connection Agreement" letters to be received from the relevant distribution company • System Basic Information Form • Technical projects and calculations • District Municipality-GES Conformity Letter (according to Zoning Regulations) Within the scope of the "Regulation on Unlicensed Electricity Generation in the Electricity Market", the application to the authorised energy distribution company for the installation of photovoltaic panels was initiated by the Consultant.
STAKEHOLDER ENGAGEMENT PROCESS	
STAKEHOLDER ENGAGEMENT PROCESS	The first stakeholder engagement meeting regarding the feasibility studies conducted prior to the field assessment (determination of the need for structural strengthening, energy audit studies) was held face-to-face on 09.03.2023 and general information was given about the reasons, purpose/objectives and stages of the project. (Annex VII) Before the implementation of the prepared and approved projects, a stakeholder information meeting will be organised again in order to provide information on the technical, social and environmental details of the project by the relevant experts, to answer any questions of the participants about the project and to receive their opinions. The meeting will be held after the approval of the draft version of this ESMP with the participation of the contractor, beneficiary institution management and technical units, building users and consultants. Prior to the information meeting, this ESMP will be made available to stakeholders by being published on both the project and Boğaziçi University's website for 7 days. In addition, a hard copy of this ESMP will be available to stakeholders in all buildings involved in the project for at least 7 days. An information meeting will be held within 5 working days following the completion of the 7-day suspension period of the ESMP in order to share project-specific information and present this ESMP to stakeholders. Details on the Grievance Mechanism established for the Project are presented in Section 4.

ISSUES AND CONCERNS RAISED BY BUILDING USERS	Building users were informed about the structural retrofitting and energy efficiency renovation process during the Phase 1 stakeholder engagement meeting and were asked if they had any concerns, opinions, suggestions and/or questions regarding these potential activities. At this time and afterwards (up to the date of this report), no feedback was received from any stakeholder in writing/verbally or through the project Grievance Mechanism. Whether students and other building users have concerns about these studies will be expressed during stakeholder participation meetings and will be recorded with stakeholder participation meeting minutes. This document may be revised in the light of additional data obtained as a result of this meeting.
INSTITUTIONAL CAPACITY BUILDING	
EDUCATION	Within the scope of the Project, it is expected that the institutional capacity of the contractor company will be improved as a result of the trainings to be provided by the Consultant to the Contractor's personnel. These trainings are listed below. • Environmental and Social Impacts • Waste Management • Response to Environmental Emergencies • Energy Efficiency • Stakeholder Engagement/Information Activities • Complaint Mechanism (CC) • Gender Equality / Gender Based Violence/Sexual Exploitation/Sexual Assault/Sexual Harassment • Code of Conduct • Protection of Historical Heritage • OHS Plan Implementation and Monitoring Training • Tagout and Lockout Training • Work Permit System Training

4. Stakeholder Engagement and Grievance Mechanisms (CC)

Stakeholder Engagement is an inclusive process that will be conducted throughout the project lifecycle and supports the establishment of strong, constructive and responsive working relationships that are important for the successful management of the project's environmental and social impacts and risks. The Stakeholder Engagement Meeting ensures early, frequent and open communication throughout the project lifecycle, helping to manage stakeholder expectations that will influence the management of risks, potential conflicts and project delays. For this reason, stakeholder information meetings were organised for feasibility studies prior to the site assessment (determination of the need for structural reinforcement, energy audit studies) and general information was provided on the reasons, purpose/objectives and phases of the project (Annex VII). Before the implementation of the prepared and approved projects, a stakeholder participation meeting will be organised again in order to provide information on the technical, social and environmental details of the project by the relevant experts, to answer all kinds of questions of the participants about the project and to receive their opinions. The meeting will be held within 5 working days after the approval and publication of the draft version of this ESMP with the participation of the consultant firm, beneficiary organisation management and technical units, building users and PIU.

This ESMP will be suspended in the building where the work is carried out for seven (7) days in order for all stakeholders to be informed about how the project process will be carried out in the field and to receive any objections and suggestions. Boğaziçi University will publish the approved ESMP on its website. Following the completion of the suspension process, a Stakeholder Information Meeting will be organised. In addition, the Consultant will prepare information and promotional materials (brochures, posters, etc.) to be shared with stakeholders during the meeting and throughout the project and will be responsible for the delivery of these materials to stakeholders.

This ESMP will be published on the KADEV Project's website (https://kamuguclendirme.csb.gov.tr/) throughout the life of the project.

Information on the stakeholder engagement meetings held during the feasibility phase is given in Annex VII.

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

The Ministry of Environment, Urbanisation and Climate Change has identified several alternative methods for collecting complaints and suggestions institutionally.

The PIU of the Ministry of Environment, Urbanisation and Climate Change has developed a transparent and comprehensive CC specifically for KADEV Project before the Project implementation starts in order to receive, evaluate and resolve the grievances/opinions/suggestions that may arise during the activities to be carried out in public buildings within the scope of KADEV Project. The CC will help all relevant stakeholders to convey their complaints/opinions/suggestions about the activities to be carried out to the relevant persons and institutions and will strengthen the participation of stakeholders in the project. This mechanism also enables all employees (PIU, Consultant, Contractor) working within the scope of the project to submit their complaints/suggestions/suggestions to the Ministry and the World Bank anonymously or with clear identity. Duties and responsibilities of the contractor, consultant and PIU, Project Stakeholder Participation Framework (https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894_paydas-katilim-cercevesi-mayis-final_20210521122305.pdf) document in detail. In addition, all parties involved in the project are obliged to implement the Project's Environmental Social Management Plan, Stakeholder Engagement Framework and Labour Management Procedure.

Within the scope of KADEV Project, complaints will be handled at more than one level;

a) Contractor level;
b) Counsellor level;

c) MoEU Provincial Directorates level;
d) At national level at the level of the Project Implementation Unit (PIU) of the MoEU.

a) **Contractor Level:** Each contractor appointed to carry out the construction works shall be responsible for receiving, recording and, where possible, resolving any complaints/concerns/opinions/advice raised by any stakeholder *(public building management, building users, visitors, local communities or beneficiaries, project staff, etc.)* in accordance with the Grievance Mechanism Procedure. The Contractor shall guarantee to all personnel involved in the Project that they can use the Grievance Mechanism (GRM) and that any grievances raised by the personnel shall not constitute an obstacle to the renewal of their employment contract in the future.
Under the heading *"Grievance Mechanism for Employees"* of KADEV Project Labour Management Procedures, all steps regarding the transmission of employees' complaints/opinions/suggestions are explained in detail. All employees will be able to use this mechanism with their open identity or anonymously.

If the Contractor cannot resolve the complaints/concerns/opinions/recommendations due to the construction works carried out within the scope of KADEV Project, it is obliged to direct these applications to the relevant persons/institutions in accordance with the Grievance Mechanism Procedure of the project.

Contractors shall also report their records, including resolved and unresolved complaints/concerns/opinions/recommendations, to the Consultant on a weekly basis. The Contractor is obliged to resolve complaints within 15 calendar days at the latest.

b) **Consultant Level** Contractor at the level of handle Any grievances/concerns/opinions/recommendations that cannot be addressed will be handled by the social expert of the Consultant Company, who is the Construction Supervisor. The Project Manager will issue a status report in accordance with the Grievance Resolution Mechanism Procedure, reminding the contractor of its responsibilities and ensuring that the necessary measures are taken to resolve the issue and ensure that the necessary corrective actions are implemented.

The Consultant shall guarantee to all personnel involved in the Project that they can use the CC and that complaints from the personnel will not constitute an obstacle for the renewal of their employment contract in the future. If the Project Manager is unable to resolve the grievances/concerns/suggestions/recommendations, he/she is obliged to refer them to the Ministry of Environment, Urbanisation and Climate Change. The consultant company is obliged to resolve the complaints within 15 calendar days at the latest.

The Consultant shall submit a weekly report to the Ministry of Environment, Urbanisation and Climate Change on both the complaints/concerns/opinions/recommendations received directly and those communicated by the contractor.

c) **Provincial Directorates of Environment, Urbanisation and Climate Change Level:** Provincial Directorate of Environment, Urbanisation and Climate Change will be responsible for the complaints/concerns/opinions/suggestions received regarding the activities carried out within the scope of KADEV Project to the extent possible.

The Directorates shall also immediately forward all complaints/concerns/opinions/suggestions received to the Administration, whether or not they resolve the matters received.

d) **MoEU Level:** Within the scope of KADEV Project, MoEU is responsible for collecting, recording and resolving all grievances/concerns/opinions/suggestions raised by stakeholders through the levels mentioned above. The MoEU is responsible for resolving the collected complaint/concern/opinion/suggestion within 15 calendar days and informing the complainant/concern/opinion/suggestion about the outcome. However, this period may be extended to 30 calendar days for complaints requiring detailed investigation.

For complaints on gender-based violence and sexual exploitation and harassment, it is recommended

to use the web-based complaint system given in Annex IV for confidentiality. In order to ensure confidentiality, an authorised staff member will have access to the web-based complaint system.

The Ministry of Environment, Urbanisation and Climate Change has identified several alternative methods for collecting complaints and suggestions institutionally.

The channels for submitting complaints and suggestions to the Administration, particularly the national complaint mechanism such as the Communication Centre of the Presidency of the Republic of Turkey (CİMER), are given below:

Table 4: CC Communication Channels

Call Centre : ALO 181 Telephone031 2 586 4858 E-mail : yigmkadev@csb.gov.tr Grievance: https://kadevoneri.csb.gov.tr/oneri.jsp | Suggestion and complaint boxes in buildings

These communication channels are tried to be introduced with wall posters (hung on the walls where the suggestion & grievance boxes are located) and project brochures distributed in all buildings. In addition, all employees working in the project will be obliged to inform the stakeholders around them about the suggestion and complaint mechanisms. All employees will be informed about this issue before the work. This Subject. Regarding Details Stakeholder Participation Frame (SEP) (https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894_paydas-katilim-cercevesi- mayis-final_20210521122305.pdf).

The Construction Contractor will be responsible for receiving, recording and resolving grievances/comments/suggestions during the renovation of public buildings. Each contractor appointed to carry out the construction works shall define a system for receiving, recording and resolving grievances/comments/suggestions received by the public building management and employees, visitors and beneficiaries regarding the construction works. The contractor shall record the complaints/opinions/suggestions through the Grievance and Suggestion Form and Grievance Closure Form given in Annex V and Annex VI. Verbal complaints/opinions/suggestions shall be recorded by the responsible personnel of the Contractor by filling in the Complaint and Suggestion Form. The Contractor is obliged to send the recorded complaints to the Project Manager at the beginning of each week. The Project Manager is obliged to notify the complaints/suggestions/requests to the MoEU on a weekly basis.
Records of grievances/opinions/suggestions will be regularly shared with the World Bank (WB) by the MoEU. In addition, individuals or communities who believe that they have been adversely affected by WB-supported projects may submit their grievances to the MoEU through the Grievance Mechanism (GRM) available at the project level or to the WB through the WB's Grievance Redress Service (GRS) (https://www.worldbank.org/en/projects- operations/products-and-services/grievance-redress-service).

Project-affected stakeholders may also submit their grievances to the WB Independent Review Panel. This panel determines whether the complainants or communities have suffered or may suffer harm as a result of violations of one or more of the WB's performance criteria. The Panel may communicate its concerns about complaints received directly to the WB. At this stage, the WB has the opportunity to respond to the complaints. For information on how to submit complaints to the WB Inspection Panel, please visit www.inspectionpanel.org.

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

Table 2 LIST OF ENVIRONMENTAL & SOCIAL IMPACTS AND MEASURES TO BE TAKEN

APPLICATION/CONSTRUCTION PHASE	RISK & IMPACTS	PRECAUTIONS	RESPONSIBLE
Renovation and retrofitting works to improve earthquake resistance and energy efficiency in public buildings	***a) OHS*** Potential adverse safety and health impacts for workers, local population and employees due to - Possible injuries that employees may be exposed to due to working at height, working with hazardous materials, electrical tools, etc;	• Local building and environmental control authorities and communities will be informed of the activities to be undertaken. • The public will be informed through stakeholder engagement, appropriate notifications in the media and/or public places. • All legally required permits for construction and/or improvement shall be obtained. • Regular field supervision will be carried out by the Project Implementation Unit (PIU) and the Consultant to ensure and monitor that all construction activities to be implemented are carried out in accordance with national laws and regulations and the requirements of World Bank standards. • Detailed information and analyses on occupational health and safety can be found in the Occupational Health and Safety Plan prepared for the same campus.	Project Implementation Unit (PIU) Consultant
		• The Contractor shall immediately notify the MoEU in the event of a major incident. The MoEU shall notify the World Bank within 48 hours of any major incident (such as accidents, leaks, fatalities) and take corrective action.	Consult ant PUB Contractor

	- Compliance with national and defined international occupational health and safety requirements in the workplace non-compliance;	send an incident investigation report with the plan to the World Bank within 30 working days. • Regular site supervision will be carried out by the PIU and the Consultant to ensure and monitor that all construction activities to be implemented are carried out in accordance with national laws and regulations and the requirements of World Bank standards. • Health and safety measures and environmental measures for the reconstruction of the public building will be detailed in the project specific Waste Management Plan and Occupational Health and Safety Management Plan. • The Contractor shall prepare its own OHS plan for the works to be carried out by taking into account the Occupational Health and Safety (OHS) Plan prepared by the Consultant.	Consultant PUB Contractor

		• Prior to the start of construction works, a Risk Assessment will be carried out for all works to be carried out. Relevant procedures and plans: Health and Safety Plans including risk assessment, safety procedures, training, monitoring, monitoring, incident investigation and reporting, Emergency Plans (Health and Safety Plans will be prepared by the Audit consultants and will be prepared by the contractors by adding site specific risk assessments, procedures, instructions will be developed), (ESMF's In Annex 8 (https://webdosya.csb.gov.tr/dbamuguclendirme/menu/kadev- p175894_csyc_final100521--may_20210510070430.pdf-), including the Requirements and Precautions for Working with Asbestos, shall be made available together with relevant procedures such as the Procedure for the Removal of Asbestos-Containing Structures. • Appropriate signage on construction sites will inform workers about the basic rules and regulations to be followed. • Occupational Health and Safety (OHS) trainings will be provided to employees, indicating the potential risks related to the work site and the work to be performed, and weekly and monthly site occupational safety meetings will be held. • The Contractor formally agrees that all works will be carried out in a safe and disciplined manner designed to minimise impacts on residents and the environment. • The Contractor shall assign a personnel/responsible/expert with relevant certificates and experience responsible for occupational health and safety. • The Contractor shall provide a safe working environment for the workers and provide personal protective equipment (PPE) (such as hard hats at all times and masks and safety glasses, safety belts and safety boots where necessary) in accordance with international best practices and Turkish Legislation prior to construction activities.	Consultant Contractor

		• A suitable environment for employees to rest between work will be provided by the contractor company *(number of employees, rest hours)* in consultation with the building management and with permission. • Employees; eating places will be established in areas determined by the building technical units under the written permission and approval of the University management. • Changing areas (lockable) for employees will be provided inside the building with the written permission and approval of the University administration. These areas will be determined by the technical staff of the building and the use of areas outside these areas is strictly prohibited. The employees will be informed by the contractor company that the employees should not keep their valuables in these areas and that the building management bears no responsibility for any negativities such as theft etc. that may occur in the said area. The issue in question will also be announced with warning signs. • The toilet needs of the employees will be met from the building infrastructures under the written permission and approval of the university management. If the existing infrastructure cannot be used, WC containers will be arranged by the contractor for the use of the workers, and the containers will contain all materials for hygiene. However ▪ Employees will be able to use the toilets allowed/allocated to them in the building. The contractor company will inform its employees about the permitted/allocated toilets in line with the number of employees. Follow-up and control regarding this restriction will be under the responsibility of the contractor company. ▪ The contractor will warn the employees of the contractor company about the use of the toilets in accordance with the hygiene rules, and if the use outside the rules is detected, the cleaning responsibility will belong to the contractor company.	

		▪ All kinds of materials that employees will need for hygiene will be provided by the contractor company. • The contractor shall provide work clothes showing the project name so that employees can be easily distinguished. • It is strictly forbidden for employees to enter into discussions with building technical units and campus users for any reason. In case of individual or activity-related problems, the employee will immediately report the situation to his/her manager (The responsible manager and contact information will be notified to all employees by the contractor company). The contractor company will record such situations and forward them to the consultant. Any decision/action regarding this process will be carried out in line with the knowledge and approval of the building management. • Where applicable, approval for night work will be obtained from the building management. All activities will be implemented in line with both the Occupational Health and Safety Law (Official Gazette No. 28339 dated 30 June 2012) and related regulations as well as the World Bank Group (WBG) Environment, Health and Safety (EHS) Guidelines. • In the event of any epidemic or pandemic/infectious disease, the guidance, guidelines and recommendations to be provided by the Ministry of Health, Ministry of Labour and Social Security and the World Health Organization shall be complied with and all relevant measures shall be taken in terms of occupational health and safety for both employees and workplaces. • Unauthorised third parties will be prevented from entering the construction site. • The names of the personnel to be employed at the construction site shall be submitted to the Consultant in a list together with the necessary training documents, and the employees with appropriate training and personal protective equipment shall enter the construction site with their name badges.	

		• Persons under 18 years of age 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 washbasin needs will be provided in the areas shown by the technical units in the building where the work will be carried out. This issue will be within the knowledge of the university administrations. Employees who will take part in the project will not leave the allocated areas. • Hygiene materials required for the use of the workers will be provided by the contractor. Sewerage infrastructure in the region will be used for wastewater. • Packaged water (plastic bottles, glass bottles, etc.) will be provided to the workers as drinking water. • Clean domestic water will be supplied through the existing installations of the building. Drinking of such water will be prohibited. The Contractor shall provide a healthy and safe working environment for employees, provide, monitor and control the use of personal protective equipment (PPE) in accordance with Turkish Legislation, including international best practices and pandemic-related health and safety measures provided by the Ministry of Health and the Ministry of Labour and Social Security. *(Use of hard hats at all times, respiratory protection, safety glasses, full body safety belts and foot protection etc. where necessary).* • PPE and work clothes and employees' own clothes will be kept in separate places and closed changing areas will be created in the building for this purpose. • In case of occupational accidents with loss of working days, an accident investigation will be carried out and reported. • Employees who will work at height (facade insulation, roof insulation, PV application on the roof, etc.); theoretical and practical training on working at height	

		will also be given separately. In the health report of the persons who will work at height, the opinion that they can work at height will be stated by the workplace physician. A work at height plan will be prepared before the work and a work permit will be obtained. Work at height shall be carried out under the supervision of a competent person and occupational safety specialist. Fall protection systems and working at height equipment shall be selected in accordance with the relevant legislation, and their control, maintenance and repair shall be carried out by specially trained personnel. • All work equipment to be used will have the necessary periodic inspections and / or maintenance, compliance with standards and CE certificates will be checked, relevant records will be kept, otherwise it will not be taken to the work area. Job-specific training will be given to employees in charge of using work equipment. • Maintenance forms of the work equipment to be used in the field will be provided, regular maintenance and repairs will be carried out, and persons responsible for maintenance and repair works will be appointed. • Risk analyses will be updated when there are new equipment and innovations in the execution of work, and information/training about the changes will be updated to all workers. • All lifting vehicles, pressure vessels and boilers that will enter the site will be approved to enter the site (by the consultant) after periodic controls are checked. • All machinery, equipment (including scaffolding) and hand tools that will enter the site will be checked for compliance with TSE standards and CE certification, and entry approval will be given by the consultant. Planning of procurement, dispatch processes and storage areas for materials will be ensured. • The contractor shall have a First Aider Certified employee for every ten (10) employees who will work in the same building, if the number of workers is less than 10	

		at least one (1) first aider shall be available. Each team working in different buildings will be evaluated separately. • Preparation of the procedure for working with hazardous chemicals, creation of storage areas for materials will be ensured. Chemical substances will be taken to the field by checking the safety data sheets. • Employees without professional competence certificates will not be employed. • All employees will start working after completing basic OHS trainings and induction trainings. Trainings will be updated when required by the legislation. • Indoor and outdoor renovation areas will be separated by warning/warning bands. Warning signs required to restrict access to these areas will be installed in sufficient number. • Visitors will not be allowed to approach the renovation areas. However, if necessary, the technical staff of the building for process follow-up will be able to enter the said areas under the supervision of authorised employees in order to take the necessary safety precautions within the framework of their expertise and to use the necessary PPE. Separate training documents will be prepared for those who will enter the site under the supervision of authorised employees and these persons will be trained before entering the site. • A construction method and risk assessment will be carried out for each activity to be carried out on site. • Work permit system will be established for hazardous works such as night work, working at height, excavation works, welding works etc. • A lock and tag system will be established for work on energised lines such as maintenance and repair work, work with dangerous voltage. Special training will be given to employees regarding this system.	

		• A disciplinary system will be established for OHS non-conformities in the field and all employees will be trained on this issue. • It is essential that construction activities are carried out during the day. However, in case of night work, the entire work area, passageways and hazardous areas shall be well illuminated. • In order to control situations that may occur during the construction activities of the Project and require emergency intervention *(fire, earthquake, chemical spillage, etc.)*, procedures that will also cover public and environmental health will be prepared and shared with all employees. • If there will be electricity, water, natural gas interruption in the long or short term due to construction activities, necessary safety measures will be taken and building users will be informed a reasonable time before the interruption. • All documents and records that must be prepared and provided within the scope of OHS legislation such as health screenings of employees, recruitment documents (personal files), training documents, PPE delivery minutes, approved notebooks will be kept in the work area. All these documents will be ready for presentation for Consultant and Ministry audits. • An organisation chart indicating duties - authorities and responsibilities under the title of OHS and including contact information will be created. • In case of changes in public building entrances during construction works, it will be ensured that appropriate structures are created for disabled users. • Public health will be included in the OHS Plan to be prepared, and a person and position to ensure communication with building users and local people will be defined in the plan. • Records will be kept of all activities and events *(meetings, audits, inspections, supervision, training, accidents, fires, etc.)* during the	

		construction phases.	

		• In accordance with the KADEV Project Labour Force Management Procedure and covering all of the Contractor and its subcontractors: • In accordance with the project-specific Labour Force Management Procedure, a written and signed social policy/written undertaking will be created that it will not use forced/forced labour, will not employ child labour and uninsured workers, will not engage in any discrimination *(age, gender, religion, language, race, etc.*), coercion, ill-treatment, bullying, insult and humiliation among its workers. This document will also emphasise that all contractor employees should pay attention to these issues in their relations and communication with each other. • take measures to prevent the spread of communicable diseases *(including STDs and infections such as HIV)* and non-communicable diseases arising from the performance of the Works, recognising that particularly vulnerable and fragile groups of society are at different levels of risk. Implement measures to prevent the spread and mitigate the impact of infectious diseases that may arise from temporary or permanent labour mobility in connection with the Convention.	

Renovation and retrofitting works to improve earthquake resistance and energy efficiency in public buildings	***b) OHS*** Possible adverse effects on workers, plant users, children and the general public as a result of asbestos fibre and dust emissions during the removal, transport and final disposal of asbestos sheets health effects	• The project site will be illuminated during the night. • No waste will be dumped in the surrounding area and this area will be kept clean. Waste must be collected and removed from the construction site. • Any glass broken in the process will be cleaned immediately. • Work areas will be separated from demolition and residential areas of the building using physical barriers. • The cleaning schedule of the building will be supplemented to remove the extra dust and dirt generated by the demolition work; • Work shall be carried out in accordance with safety guidelines for the storage, handling and distribution of hazardous materials in order to minimise the possibility of misuse, leaks and accidental human exposure. • Old windows and doors will be temporarily stored in a secure place designed to prevent access by unauthorised persons. • Vehicles will be regularly maintained to minimise potential serious accidents caused by equipment failure or premature failure. • Both trainings and incidents (fatalities, lost time accidents, spills, major events such as fire) will be recorded. • The Contractor shall immediately notify the MoEU in the event of a significant incident. The MoEU shall notify the WB within 2 days (48 hours) of any significant incident (such as accidents, spills, fatalities) and submit an incident investigation report with a corrective action plan to the WB within 30 working days.	Contractor

	c) Security	• The contractor shall be responsible for the safety of life and property of all personnel and other individuals within the construction site from the moment the application/construction work starts. • If any damage occurs during the construction works, the Contractor shall compensate the Beneficiary Institution, the Employer and/or the 3rd party for all damages incurred. • The safety rules of the Republic of Turkey Ministry of Labour and Social Security and the rules of the Ministry of Health will be taken into consideration during the Works. The relevant rules shall be used as a general reference during the construction of the Works. • The Contractor shall have a competent person on site who shall be specifically concerned with the safety and protection against accidents and who shall deal with all of the Contractor's workers and workforce, as well as the Project Manager, the Employer's personnel, equipment, offices and other facilities on site. This person shall be a person with the necessary qualifications for the job, authorised to give instructions and able to take all necessary measures to prevent accidents and shall constitute a team set up by the Contractor specifically for this purpose. • The contractor shall take all necessary safety precautions to prevent damage to the materials and equipment and productions that will not be changed and used in the places where the contractor will manufacture. • A security team consisting of the required number of guards shall co-operate with the City Security Forces and shall carry out its duties in strict compliance with all rules and instructions received from them. The Contractor shall provide at least 1 (one) night watchman for the work site. • The scraps of the replaced machinery, equipment and systems shall be delivered to the building management without any damage. • The said machinery, equipment and system parts will be transported by the contractor company to the area requested by the building management (within the building and / or within the campus). Transport and delivery operations will be carried out with a delivery report. As of the date of signature of the said minutes by the parties, the responsibility for the scraps will belong to the building management.	Contractor

Renovation and retrofitting works to improve earthquake resistance and energy efficiency in public buildings	***d) Waste management*** Possible adverse environmental and health impacts may occur due to various waste streams and inappropriate waste management (inappropriate waste management may cause direct and indirect pollution of water and soil and air may affect quality)	**General Information** • The PIU and the consultant will monitor the implementation of the environmental and social mitigation measures as specified in the Environmental and Social Management Plan through field inspections. • Regular site supervision will be carried out by the PIU and the Consultant to ensure and monitor that all construction activities to be implemented are carried out in accordance with national laws and regulations and World Bank ESA requirements.	PUB Consultant
		• Waste Management Plan, Environmental and Social Management Framework will be prepared by the consultant as specified in[8] Annex 9. • Waste collection and disposal routes and sites for all waste types expected to arise from refurbishment, demolition and construction activities will be identified within site-specific Waste Management Plans. • Daily visual site inspections will be carried out by the consultant to monitor the implementation of mitigation measures.	Consultant

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

		• During construction activities, all waste types will be collected separately at source and transported to temporary waste storage areas selected in accordance with the project and legislative requirements determined within the knowledge of the beneficiary within the site. (Temporary storage period is limited to 6 months). • Temporary storage areas will be determined by the contractor company with the permission of the University Administration and the consultant will be notified of such areas. • If a protocol is signed between the contractor company and the beneficiary institution, the existing waste management system can be used. However, with the protocol, the contractor will be obliged to cover the costs arising from its own waste. • The Contractor shall, where possible, reuse and recycle suitable and practicable materials (excluding asbestos) • Waste disposal and recycling documents will be regularly recorded. Waste Recording Information Form will be prepared for keeping these records. • It will be ensured that hazardous wastes are sent to licensed disposal facilities by using waste management application through Integrated Environmental Information System (E-EIS) in the online programmes of the Ministry of Environment, Urbanisation and Climate Change. • In cases where it is necessary to replace vehicle tyres during construction activities, old tyres will be disposed of through tyre distribution and sales businesses and transport licensed vehicles. **Construction, Excavation and Drilling Wastes:** • Materials such as stones, rocks, etc. that come out during drilling will be stored at the same point with construction and demolition wastes. In the event that such wastes are generated during drilling and especially their re-evaluation as infrastructure material will be prioritised.	Contractor

		• Temporary mud ponds should be created to prevent the slurry generated during drilling from spreading around. These pools should be closed and restored after the drilling operation. • In case of embezzled material belonging to the building as a result of dismantling activities, a document will be taken to the building management that the material is delivered. • Recovery and reuse of construction/demolition wastes, especially as infrastructure materials, will be prioritised. Excavation wastes will be sent to the waste storage facility of the relevant municipality. An official letter from the Municipality stating that the wastes will be accepted to the site will be obtained and submitted to the Administration. **Waste Batteries and Batteries:** • Waste batteries and accumulators will be delivered to waste battery and accumulator disposal facilities located within the boundaries of the Municipality through authorised transport companies. **Hazardous Waste:** • In case of temporary storage of hazardous wastes in the project area; wastes will be stored in containers that are robust, leak-proof, safe and in accordance with internationally accepted standards and within the project area, the hazardous waste phrase will be placed on the containers and the waste code, quantity, content, properties, protection conditions and storage date of the stored substance will be indicated on the containers. Hazardous materials can be temporarily stored for a maximum of 6 months. (Temporary storage areas will be determined by the contractor company in accordance with the legislation by obtaining permission from the University Administration and the consultant will be notified of such areas). • Containers for storing hazardous substances and waste oils will be placed in sealed concrete areas to prevent spillage and leakage to the ground.	

		• Toxic paints, solvents or lead-based chemicals shall not be used. • The management of hazardous waste will be carried out in accordance with the Waste Management Regulation. • Hazardous chemicals and wastes likely to be generated at the construction site will be sent to licensed disposal facilities using the waste management application through the Integrated Environmental Information System (E-EIS), an online programme of the Ministry of Environment, Urbanisation and Climate Change. • Spillage leakage absorbent pad kits will be available at work sites. All personnel on duty will be subjected to protection and emergency training on hazardous chemical leakage and spillage. • In case of medium and large scale environmental accidents, accident investigation will be carried out and reported. • Used fluorescent lamps dismantled during renovation/construction works will be disposed of at licensed facilities. Necessary documents regarding the transport and disposal of the material will be kept at the construction site and will be submitted to the MoEU and the World Bank upon request. **Household Waste:** • Domestic wastes will be separated at source (plastic, glass, paper, etc.) and recyclable ones will be recycled. Employees will be trained for proper waste separation. • Wastes that cannot be recycled will be collected in sealed sanitary bins and sent to landfill sites through the solid waste collection system of Sarıyer Municipality. **Asbestos:**	

		• If asbestos is present at the project site, it will be clearly labelled as hazardous material. • If asbestos is present at the Project site, it will be properly contained and sealed to minimise its impact. • Where asbestos removal is required, a wetting agent shall be used to minimise asbestos dust prior to removal. • The full procedure to be applied in relation to asbestos is contained in Annex 8 of the Environmental and Social Management Framework document. (The Contractor shall comply with its contents. • If asbestos material is to be stored temporarily, the waste must be kept securely in sealed enclosures and appropriately labelled. Security measures will be taken against unauthorised removal from the site. • The removed asbestos will not be reused and will be disposed of according to national regulations and sent to licensed facilities. Necessary documents regarding the transport and disposal of the material will be kept at the construction site and will be submitted to the MoEU and the World Bank upon request. • Paints containing toxic components or solvents or lead-based paints shall not be used.	

Renovation and retrofitting works to improve earthquake resistance and energy efficiency in public buildings	***e) Pollution Prevention*** Demolition and construction activities may cause pollution at construction sites.	• Site Specific Pollution Prevention Plans to be prepared if necessary will be reviewed and approved by the PIU. • Regular site supervision will be carried out by the PIU and the Consultant to ensure and monitor that all construction activities to be implemented are carried out in accordance with national laws and regulations and WB ESA requirements.	PUB Consultant Contractor
		• Ambient air pollution related to dust generation is indicated in the "g. Air quality/emission" section of this Table. • Dangerous goods shall be secured in the designated storage area to prevent spillage and tipping. • Semi-used chemical containers shall be capped and tightly closed when not in use. • Residual (leftover) concrete in concrete mixers will not be allowed to be poured into the construction site, its surroundings or access roads of the construction sites. Concrete mixer drivers will be trained accordingly. • In case of any leakage of hazardous substances or hazardous wastes, leakage prevention methods will be applied to limit the exposure area. • Seepage embankments will be placed at appropriate points in the construction sites. • In case of any leakage, workers who will intervene in such incidents are identified and trained on emergency response to leaks. • Training records will be kept at construction sites.	Contractor
Improving earthquake resistance and energy efficiency in public buildings	***f) Noise*** Presence of workers on site, renovation/construction works and transport	• Regular site supervision will be carried out by the PIU and the Consultant to ensure and monitor that all construction activities to be implemented are carried out in accordance with national laws and regulations and WB ESA requirements.	PUB Consultant

renovation and strengthening works	movements of vehicles will increase the level of noise and vibration.	• Noise during demolition and construction will be limited to the restricted periods agreed in the permit. • During operations, the engine covers of generators, air compressors and other electrical mechanical devices will be closed and located as far as possible from residential areas. • During the works carried out during the construction phase, the engine covers of the generators, air compressors and other operating mechanical equipment will be kept closed, and the equipment will be placed as far away as possible from the student areas and other buildings on the campus, which are not included in the scope of the project. It is mandatory to use plastic chocks in all of the equipment in question. In this way, excessive noise due to vibration will be prevented. This situation should be considered in device preference. • Impact noise that may occur as a result of the construction site activity will not exceed 100 dBC in terms of LC Max noise indicator as specified in the Environmental Noise Control Regulation. In terms of occupational health and safety, the World Health Organisation (WHO) has set noise exposure levels at 70 dB for a 24-hour period and 85 dB for a 1-hour period to prevent hearing impairment. In addition, in Table 1.7.1 of the World Bank Environmental, Health and Safety Guidelines, 55 dB between 07:00-22:00 for residences/educational institutions and public institutions and 55 dB between 22:00-07:00 for residences/educational institutions and public institutions. If 45 dB between not to exceed (https://www.ifc.org/content/dam/ifc/doc/2023/ifc-general-ehs-guidelines.pdf). This will be taken into consideration during field inspections. In addition, in case of noise complaints, noise levels will be determined as a result of measurements carried out by accredited laboratories. Site assessments will be carried out according to the World Health Organisation Environmental Noise Guidelines for the European Region. • In case the noise level increases during the construction phase, it will be ensured that the work machines are not operated at the same	Contractor

		time.	

		• In order to minimise the noise level, measures such as using new model vehicles as much as possible will be taken. • There are no local residents at risk of being affected by the works near the construction site. All works will be carried out within the isolated campus area. • Unnecessary use of horns and sirens by vehicles transporting machinery, equipment, materials and personnel within the scope of the project will be prohibited. This rule covers both inside and outside the campus. Contact numbers will be attached to the vehicles so that complaints regarding such issues can be received and resolved.	

Renovation and retrofitting works to improve earthquake resistance and energy efficiency in public buildings	**g)** ***Air Quality/Emission***	• Demolition rubble will be kept in a controlled area and water will be sprayed to reduce rubble dust. (Water will be supplied from the campus site infrastructure. In case of prolonged water shortage, water can be supplied by tanker truck). • Guidelines for the prevention of air quality problems during demolition activities will be presented in a Demolition and Construction Environmental Method Statement (to be prepared by the contractors and approved by the PIU). • Dust generated by pneumatic excavation during excavation will be suppressed by continuous water spraying and/or by installing dust curtain enclosures on site. • In case of demolition waste, a rubble disposal chimney will be used after the first floor. • The surrounding environment (pavements, roads) will be cleared of rubble to minimise dust. • Construction material/waste material will not be burnt in the open area at the construction site. • Construction vehicles shall not be idled for excessive periods of time on construction sites. • In cases where material transport is required, the lorries will be covered. The speed of such vehicles on campus is limited to 20 km. • All vehicles to be used will have exhaust emission permits and all vehicles will be regularly maintained or inspected for maintenance.	Consultant Contractor

Renovation and retrofitting works to improve earthquake resistance and energy efficiency in public buildings	***h) Water quality*** Uncontrolled disposal of wastewater/wastes generated in the construction area may affect the coast. ***i) Soil quality*** Mixing of hazardous substances and wastes into the soil	• Appropriate erosion and sediment control measures, such as straw bales and/or silt fences, will be established on site to prevent sediments from travelling off-site and causing turbidity in the sea. • The storage or disposal of waste generated at the construction site will be minimised. • Temporary or final waste disposal near/in running water is strictly prohibited to avoid possible negative impact on surface waters. • Construction vehicles and machinery will only be washed in areas where runoff will not pollute natural surface water bodies. • The waste management mentioned in the previous sections needs to be carried out in a disciplined manner. • All hazardous chemicals (including contaminated wastes) will be kept in temporary storage areas that meet the sealing requirements. • Before the use of chemicals, MSDSs should be checked by OHS Specialist and Occupational Physicians and users should be informed. • Leakage pads will be kept in the site against point source pollution (paint spilled on the site, oil leaking from vehicles, etc.) and all employees will be subjected to leakage & spillage trainings. These trainings will be reinforced with drills. At least one leakage and spillage kit will be available for each structure and each mobile work machine.	Consultant Contractor

Renovation and renovation of public buildings to improve earthquake resistance and energy efficiency retrofitting works	**j) *Required Resources***	• Contractors shall obtain the necessary permits from the building administrations to use water from the network to be used in construction activities. . In case of problems in obtaining permission, water will be brought to the construction sites by tankers. • Concrete will be supplied from local licensed ready-mixed concrete plants. • Permission will be obtained from the beneficiaries for electricity to be used in construction activities. If permission cannot be obtained, electricity will be supplied by generators to be provided by the Contractor. Records of electricity, fuel (for generators) and water consumption for construction activities will be kept at the construction sites.	Contractor
		• Regular site supervision will be carried out by the PIU and the Consultant to ensure and monitor that all construction activities to be implemented are carried out in accordance with national laws and regulations and the requirements of World Bank standards.	PUB Consultant
Renovation and retrofitting works to improve earthquake resistance and energy efficiency in public buildings	***Community Health and Safety/Traffic and Pedestrian Safety***	• Regular site supervision will be carried out by the PIU and the Consultant to ensure and monitor that all construction activities to be implemented are carried out in accordance with national laws and regulations and the requirements of World Bank standards and the Occupational Health and Safety Plan prepared for the Campus. • The PIU will review and approve the site specific Community Safety and Traffic Management Plan prepared in accordance with the Occupational Health and Safety Plan.	Consultant Contractor
		• The Contractor shall develop the Traffic Action Plan (Figure 13) developed by the Consultant, taking into account the needs of persons with disabilities.	
		• In accordance with national regulations and the WB ESF, the contractor will ensure that the construction site is properly secured and construction-related traffic is regulated.	

		• Signposts, warning signs, barriers and traffic diversions; the construction site will be clearly visible and the public will be warned of all potential hazards. • Traffic management system and staff training will be provided, especially for access to and heavy traffic near the construction site. Safe crossings and crossings for pedestrians will be provided at intersections with construction traffic. • Working hours will be adjusted according to local traffic patterns, e.g. avoiding large transport activities during peak hours or when animals are being transported. • Active traffic management will be carried out by trained and visible personnel on site if necessary for the safe and comfortable passage of the public.	
		• Construction areas will be surrounded by health and safety signs to prevent possible accidents. • If there will be electricity, water, natural gas interruption in the long or short term due to construction activities, in this case, the building technical units will be notified in advance and approval will be requested. • Construction areas will be separated by warning / warning bands and safety will be ensured. • It will be ensured that all kinds of vehicles that will work during the construction period comply with the specified speed limit.	Consultant Contractor
		• The area around and near the Project site will be organised with traffic signs and warning signs *(specified in the Traffic Action Plan)*. • Visibility of the project site will be ensured. • Pedestrian routes and vehicle access roads within the site will be separated from each other. These roads will be recorded in the traffic plan.	Consultant Contractor

		• The local community, visitors and users of the building will be informed about potential hazards and risks by means of warning signs and information meetings. • In the event of an outbreak, users and other stakeholders will be informed about the work to be carried out, including the measures taken, in the event of an outbreak, by using appropriate media and / or by printed materials and signs in areas accessible to the public (including work sites). • Pedestrian roads and vehicle access roads within the site will be separated from each other. These roads will be recorded in the traffic plan. • Activities that will affect the traffic in the region will be planned by considering the peak hours of traffic as much as possible. All drivers who will take part in the project will be informed about road safety, speed limits, traffic rules and conditions to be observed during the project. • The weights of all vehicles to be used within the scope of the Project will not exceed the limits given in the relevant legislation. • If hazardous chemicals or wastes are stored at 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 shall use routes prepared in agreement with the competent authorities. The specified routes shall be programmed in such a way as to avoid traffic congestion on the roads and shall be published in advance to avoid possible inconvenience. • The entire organisation of traffic issues will be discussed and planned with the competent authorities.	

Operational phase impacts and risks	***a) Waste Management*** Waste management Possible adverse environmental and health impacts may occur due to various waste streams and inappropriate waste management (inappropriate waste management may cause direct and indirect pollution of water and soil and affect air quality)	a. Waste streams will be separately collected, stored and disposed of through licensed companies and in line with national regulatory requirements.	Relevant beneficiary organisation
Operational phase impacts and risks	***b) OHS risks*** Maintenance and repair activities for the proper functioning of the building may lead to OHS risks for workers.	a. Relevant OHS risks will be mitigated through provisions specified in national legislation. b. Regular preventive measures and maintenance measures for the proper functioning of the building (regular checks and maintenance of the roof, windows, doors, any leaks) c. Keeping records of the Master Design Project and related project documents for easy maintenance and renovation of any part of the building	Relevant beneficiary organisation

Project lifetime	***Stakeholder Feedback (Suggestions, Complaints, Opinions)***	• The responsible employee of the construction Contractor shall collect, record and forward the complaints/opinions/suggestions arising from the construction activities to the Administration by means of the forms given in Annexes IV and V. • The Contractor's field supervisor will be trained by the Consultant's social expert on the functioning of the Grievance and Resolution Mechanism. • Corrective actions will be taken within 15 working days for the complaints/opinions/suggestions collected within the scope of the project, and if the resolution period is longer than 15 days (the resolution period will take a maximum of 30 calendar days), this should be agreed between the contractor/PUB and the complainant. At the end of the process, the applicant will be informed that the request is closed. • Complaints about gender-based violence, sexual exploitation and harassment will be treated in accordance with the principle of confidentiality, taking into account the possibility of retaliation. • In case of sexual abuse, legal action (transferring the situation to law enforcement, referral to the relevant public institution) will be taken immediately with the consent and knowledge of the survivor of this crime. If such a situation is encountered, the PIU Social Expert will be informed on the same day. • The Contractor shall act in accordance with the KADEV Project CC Procedure in all works related to the CC. • All personnel working within the KADEV Project (PIU, Consultant Company, Contractors) will be able to report their complaints/opinions/suggestions to the Administration and/or the World Bank by following the process in the CC for Employees in the Labour Management Procedure prepared for KADEV Project. • The contractor company will announce the contact information specified in this report for the collection of suggestions and complaints with information signs allocated outside and inside the building (at least one for each floor).	PUB Consultant Contractor

		• All data related to buildings, operating parameters, simulation results for annual electricity generation, etc. will be shared with the BOUN Renewable Energy Technologies Research Group located on campus. It will be recommended that the group in question announce the data related to the aforementioned study, which may serve as an example, within the university and share them with the relevant technical staff and students. • The principles for receiving feedback are explained under the heading "4. Stakeholder Engagement and Grievance Mechanisms" of this document.	

6. Environmental and Social Monitoring Plan

Table 6: ENVIRONMENTAL AND SOCIAL MONITORING PLAN

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
Renovation and Strengthening Works Site Preparation Activities					
Community health and safety management and protection measures implemented	Around the project site	Visual controls Field Control	At the beginning of renovation/retrofitting works (first day) Every working day during project activities	To ensure that health and safety risks, mechanical injuries to local residents are minimised	• Consultant • Contractor
For workers on construction sites applied OHS protection measures	Project site and near the project site buildings	Visual controls Field Control	Every working day during project activities	To minimise the risks related to Occupational Health and Safety of workers, in particular protective equipment and clothing for workers who will remove asbestos-containing roof coverings Occupational Health and Safety Law, relevant regulations, communiqués, circulars and other compliance with regulations	• Consultant • Contractor

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
To avoid and minimise safety and health risks for Project Affected Persons	Building and project in the field	Visual controls	At the beginning of the Renewal / Reinforcement work and continuously every working day	Prevent Post Activation Potential (PAP) injury due to inhalation of asbestos fibres or other construction dust	• Consultant • Contractor
Start and completion time of renovation/retrofitting works and especially dismantling time of existing asbestos-containing parts	At the project site	Field inspection Examination of document records Visual controls	Every day (In case asbestos is detected)	Avoid environmental, health and safety risks Compliance with the Regulation on Health and Safety Measures in Working with Asbestos	• Consultant • Contractor • Asbestos Removal Specialist
Renovation and Strengthening Construction Works					

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
OHS protection measures implemented for workers on site *(working at height, working with hazardous substances work with rotating equipment working, electric with devices during operation, etc.)*	Project site Buildings near the project site	Control of documents related to relevant OHS Certificates and trained workers Visual checks for the use of protective equipment Implementation of the OHS Plan and site specific Health and Safety instructions Field inspection Control of records	Before starting demolition works Every working day during project activities	To minimise the risks related to occupational health and safety of workers Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars and other regulations	• Consultant • Contractor
Work and working conditions	Project site	Final OHS Plan check Field inspection Complaint mechanism (feedbacks)	Every working day during project activities	Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars and other regulations	• Consultant • Contractor

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
Health and Safety records	Project site	Health and Safety site documentation control	Weekly	To ensure that the necessary Occupational Health and Safety records are kept at construction sites	• Contractor • Consultant
Air Quality	Across the access roads to the project sites Project site Buildings near the project site	Field inspections Measurements to be carried out in case of complaints	Every working day during project activities	Minimise dust generation to prevent negative impact on local residents and the environment By-law on Air Quality Assessment and Management	• Contractor • Consultant

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
Noise	Project site Buildings near the project site	Visual inspection of the implementation of the specified noise reduction measures, including the method statements complied with Monitoring at the nearest building receptor points with a noise measuring device Field inspections Measurements to be carried out in case of complaints	Every working day during construction activities	Minimise noise to avoid negative impact on local residents and the environment Environmental Noise Compliance with the Control Regulation	• Contractor • Consultant

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
Waste Management	Project site	Waste records Field inspection Visual Control	Every working day during construction activities	Prevent pollution to protect construction workers, beneficiaries' employees, local residents and the environment	• Contractor • Consultant
Domestic Waste	Project site	Waste registers Field inspection	Project lifetime/Daily	• Regulation on Control of Packaging Wastes • Waste Management Regulation	• Contractor
Hazardous Waste	Project site	Waste registers Field inspection Visual Control	Project lifetime/Daily	Separating hazardous waste (glue, paint, insulation material, packaging waste) from non-hazardous waste and biodegradable waste	• Consultant • Contractor

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
Identification, proper packaging and labelling of asbestos-containing waste as hazardous waste	Project at construction sites Before the start of removal/dismantling works	Identification of asbestos-containing waste according to the waste list Field inspection Examination of document records	Project lifetime/Daily In case of detection	• Regulation on Health and Safety Measures in Working with Asbestos	• Consultant
Temporary appropriate storage, packaging and labelling of the removed waste	Project site	Waste registers Field inspection Visual controls	Project lifetime/Daily	Minimise injuries download, To prevent environmental pollution, To ensure that the inventory is kept properly. -Waste Management Regulation	• Consultant • Contractor
Excavation and Construction Waste	Project site	Visual inspection Transport records	Following the removal of all parts of the buildings containing hazardous substances Project lifetime throughout/daily	Ensure that construction rubble is disposed of in accordance with applicable national regulations and the Project's Demolition plan • Regulation on Control of Excavation Soil, Construction and Demolition Wastes	• Consultant • Contractor

		Field inspection			

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
Soil pollution	Project sites, external storage areas and access roads	Training records check (spill, leakage training) Chemical absorbent kit control (Field, mobile work machines) Field Inspection	Project lifetime throughout/daily	Protection of soil and ground water quality. • Regulation on Control of Soil Pollution and Point Source Contaminated Sites, • Water Pollution Control Regulation • Regulation on Protection of Groundwater against Pollution and Degradation	• Consultant • Contractor
Vehicle and Pedestrian Safety	Project sites and access roads	Visual inspection Use appropriate signs and signals Field inspection	On a daily basis	Protecting construction workers, beneficiaries' employees and local residents from injuries and fatalities related to road traffic accidents.	• Consultant • Contractor

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
Stakeholder engagement	Kilyos Campus	Number of Stakeholder Engagement Meeting participants (gender disaggregated) Promotional materials related to the project (announcement posters, web publications, etc. control)	Diary	Complaint mechanism fulfilment of the requirements.	• PUB • Consultant • Contractor

Grievance Mechanism	• Project site • Buildings near the project site	Complaint and Suggestion Forms Complaint Closure forms Total number of complaints (pending/resolved and gender disaggregated) Number of complaints received Number of resolved complaints Complaint Log Availability of announcement posters on the Grievance Mechanism (GR) Physical condition of suggestion and complaint boxes Suggestion,	Weekly (throughout the project life)	• Environmental Social Management Plan (ESMP) • Complaint Mechanism (CC) • Stakeholder Engagement Framework (SEP) Ensuring that stakeholders directly or indirectly affected by the project can raise their complaints/opinions/suggestions on project activities, contribute to the project and benefit from the project at the highest level	• Consultant • Contractor • PUB

		complaint boxes lock			

What *parameter to be monitored?*	**Where is it** *parameter to be monitored?*	**How to do it** *parameter to be monitored?*	**When** *parameter will be monitored (frequency of measurement)?*	**Why?** *parameter to be monitored?*	**Responsibility**
		status of mechanisms			
Renovation / Retrofitting Works Operation Process					
Waste streams	Renovated / Reinforced buildings	Implementation of waste management requirements on site	Regularly (throughout the life of the project)	Ensure proper collection and disposal of waste according to national legal requirements	Bosphorus University
Health and Safety	Renovated / Reinforced buildings	Regular inspections and maintenance of the roof, windows, doors, leaks, etc.	Regularly (throughout the life of the project)	To ensure the health and safety of building occupants/users	Bosphorus University

7. Duties & Responsibilities

Table 7 ROLE DISTRIBUTION LIST

RESPONSIBLE PARTY	RESPONSIBILITY
MOEU/PUB	• Monitoring the implementation of the project and utilisation of funds, • Employment of at least one full-time Environmental, Social and OHS expert, • Carrying out and following up the necessary correspondence with official authorities,. • Monitoring and ensuring that project-specific ESMPs are in compliance with both national regulations and WB policies, • Submission of the prepared ESMPs to WB after the relevant controls • Establishment of a Grievance Mechanism, • Organisation and realisation of project information meetings, • Recruitment of the appropriate expert for the Environmental and Social Monitoring Programme, • Guidance of consultants and contractors, • Summarising environmental and social issues related to project implementation through regular progress reports and submission to the WB, • Coordination and liaison for WB supervision missions in the context of the assessment of project implementation in terms of environmental and social safeguards policies, • Audit the contractor's implementation of the ESMP and document performance, recommendations and future activities needed as part of the overall project audit, • In case of non-compliance with the ESMP, ensuring that the contractor carries out the correct implementation and informing the WB about the issue, • Assisting the consultant in case of need in order to obtain the necessary permits during the project, • Notify the World Bank within 2 days (48 hours) of any major incident (accidents, leaks, fatalities, etc.) and submit an incident investigation report with a corrective action plan to the World Bank within 30 working days.

CONSULTANT	• Conducting a preliminary field assessment before the start of the project, • Employment of at least one full-time Environmental, Social and OHS expert, • Preparation of project-specific ESMP and Occupational Health and Safety Plan, • Monitoring and evaluation of the activities defined as the responsibility of the contractor in the ESMP and OHS Plan, • Ensuring the operation of the Complaint Mechanism established by the Ministry, • Providing feedback to the MoEU by preparing reports on project and ESMP processes, • Preparation of Traffic Management Plan, • Review and approval of the Construction Methods prepared by the Contractor, • Application to the energy distribution company for photovoltaic panel (PV) installation, • Providing contractor trainings *(Environmental Impacts, Waste Management, OHS Plan Implementation and Monitoring Training, Response to Environmental Emergencies, Energy Efficiency, Stakeholder engagement information activities, Code of Conduct, Grievance Resolution Mechanism, Gender Based Violence/Sexual Exploitation/Sexual Abuse/Sexual Harassment, Labelling and Lockout Trainer Training (EKED), Work Permit System Training, Protection of Cultural Assets)*

CONTRACTOR	• Employment of at least one full-time Environment and OHS expert, • Appointment of an experienced Environmental and OHS Officer to the site to ensure full management and follow-up of the site-specific ESMP and OHS Plan, • Implementation of the ESMP and OHS Plan included in the tender documents and prepared by the Consultant, as well as the relevant laws, regulations and legislations in the field, • Proper application of the relevant laws and regulations contained in the tender documents, • Updating the content of the ESMP and OHS Plan together with the Consultant when necessary during the implementation of the ESMPs and OHS Plan in the field, • Preparation of the OHS Plan for the activities to be carried out, taking into account the OHS Plan prepared by the Consultant Monitoring of the field activities defined in the ESMPs prepared specific to the project at regular intervals *(daily, monthly, etc.*), • The Complaint Resolution Mechanism established by the Ministry, in accordance with the Grievance Procedure to ensure that it is operated as such, • Preparation of ESMP-related sub-management plans (e.g. Waste Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Health and Safety Plan, Labour Management Plan, etc.) and work-specific construction/implementation methods where necessary, • Preparation of the Incidental Finding Procedure when deemed necessary, • Preparation of ESMP progress reports for review by the MoEU • Depending on the work to be carried out, application to the authorised energy distribution company and local gas distribution company. • Establishing the Employee Grievance Mechanism, the details of which are presented in the Labour Management Procedure, before any construction work starts and ensuring that it operates in a transparent manner, • Preparation of a project-specific Labour Management Plan taking into account KADEV Labour Management Procedures (LMP)[9] .

[9] https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894_isgucuyonetimprosedurleri-final_en_20210527081102.pdf

8. Reporting

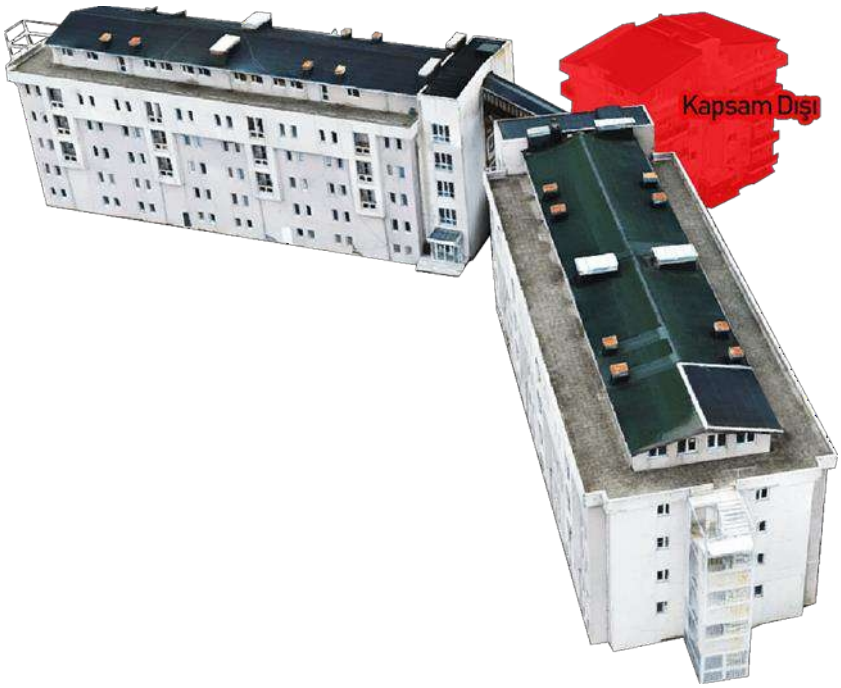
Details on the reporting requirements of the Project are presented in the Environmental and Social Management Framework published on the KADEV Project's website (https://kamuguclendirme.csb.gov.tr) and summary information is presented in Table 7.

Table 8: REPORTING PROCESS REQUIREMENTS LIST

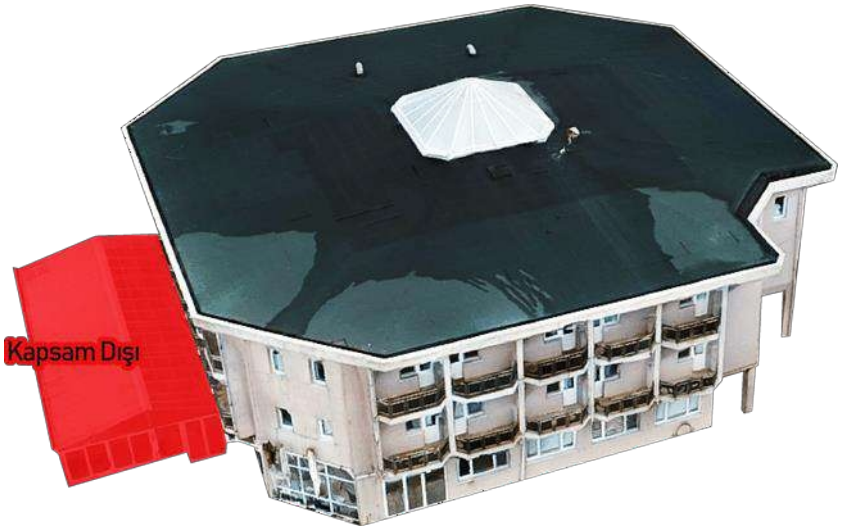
RESPONSIBLE PARTY	REPORTING PROCESS REQUIREMENT
MOEU/PUB	• Preparation of 6-monthly Project Progress Report and submission to the World Bank (WB) • Report any major incidents such as accidents, leaks, fatalities, etc. to the World Bank within 48 hours and submit an incident investigation report with a corrective action plan to the World Bank within 30 working days • Informing the WB on a monthly basis about the functioning of the Grievance Resolution Mechanism.
CONSULTANT	• Preparation of ESMP implementation result reports for the review of the administration • Preparation of monthly ESMP progress reports and submission to the Administration • Preparation of weekly CC reports and submission to the Administration
CONTRACTOR	• Preparation of monthly ESMP progress reports and submission to the approval of the Consultant • Preparation of weekly CC reports and submission to the Project Manager of the Consultant • Preparation of Incident/Incident and Root Cause Analysis Reports • Report content details in the Environmental and Social Management Framework Presented.

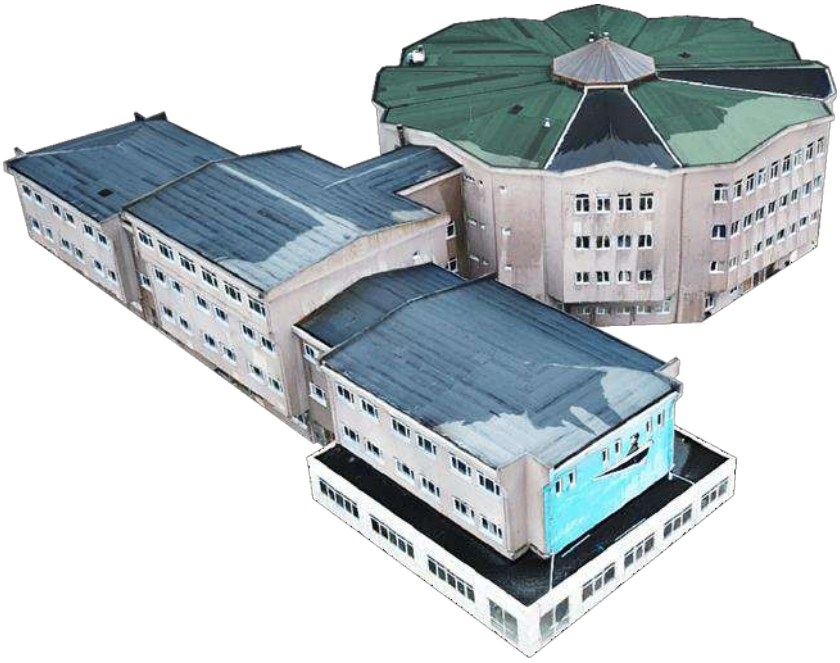
Annex I Solid Models of the Buildings Covered by the Project

1ST STUDENT DORMITORY



SOCIAL FACILITIES





YADYOK A&B BLOCK

Ek PI World Bank (DB) Environmental and Social Standard Summaries

A summary of the World Bank Environmental and Social Standards (ESS) is given in Table 1.

Annex-1/Table 1: WORLD BANK SUMMARY OF ENVIRONMENTAL SOCIAL STANDARDS

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS1	Environmental and Social Risks and Impacts Assessment and Management	ESS1 sets out the Borrower's responsibilities to assess, manage, and monitor the environmental and social risks and impacts associated with each phase of a project supported by the World Bank through Investment Project Financing to achieve environmental and social results consistent with the Environmental and Social Standards (ESSs). The environmental and social assessment will be carried out on the basis of up-to-date information/data for the description of the project and all relevant aspects and for the identification and characterisation of risks, impacts and mitigation measures. The assessment will assess the potential environmental and social risks and impacts of the project, prioritising disadvantaged and/or vulnerable social groups, examine project alternatives, and identify ways to improve the design and implementation of the project to apply the mitigation hierarchy for adverse environmental and social impacts. The environmental and social assessment will also explore opportunities to enhance the positive impacts of the project. The environmental and social assessment will include stakeholder engagement as an integral part of the assessment in accordance with ESS10. According to ESS1, the Borrower will identify, assess and manage the environmental and social risks and impacts of the project in a systematic manner throughout the project life cycle.

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS2	Labour Force and Working Conditions	The objectives of ESS2 are as follows: (i) to promote safety and health in the workplace; (ii) to promote fair treatment, non-discrimination and equal opportunities for project workers; (iii) appropriately protect workers, including women, persons with disabilities, children (of working age as per ESS2) and vulnerable workers such as migrant workers, contract workers, community workers and primary supply workers; (iv) prevent the use of all forms of forced labour and child labour; (v) uphold the principles of freedom of association and collective bargaining of project workers in accordance with national law; and (vi) provide project workers with accessible means to raise workplace concerns. The applicability and scope of application of ESS2 depends on the environmental and social assessment described in ESS1 and the type of employment relationship between the Borrower and project workers. ESS2 requirements include the development and implementation of a written Labour Management Procedure (LMP) applicable to the project. These procedures will set out the manner in which project workers will be managed in accordance with the requirements of national law and this ESS and will include the identification of (i) management of labour relations and trade union relations, including working conditions and terms and conditions of employment, non-discrimination and equal opportunity (such as the development and implementation of labour management procedures applicable to the project and Code of Conduct to be followed by project contractors); (ii) labour protection, including minimum age for workers, prohibition of child labour and forced labour; (iii) establishment and operation of a grievance mechanism for workers, including arrangements for recourse to the national system for any potential risks of Sexual Exploitation and Abuse/Sexual Harassment (SEA/SST); (iv) occupational health and safety; (v) contract workers; (vi) community workers and (vii) primary procurement workers are also included in the framework to be done.

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS3	Resource Efficiency and Pollution Control and Management	ESS3 recognises that economic activity and urbanisation often pollute air, water and soil and deplete finite resources that can threaten people, ecosystem services and the environment at local, regional and global levels. Current and projected atmospheric concentrations of greenhouse gases (GHGs) threaten the well-being of current and future generations. At the same time, technologies and practices for more efficient and effective resource utilisation, pollution prevention, and GHG emission avoidance and reduction have become more accessible and available. This ESS sets out the requirements for addressing resource efficiency and pollution prevention and management throughout the project lifecycle, consistent with Good International Industry Practice. Assessment of risks and impacts and proposed mitigation measures related to relevant ESS3 requirements, including raw materials, water use, air pollution, hazardous substances and hazardous waste, are included in the ESMF and ESMP.
ESS4	Community Health and Safety	ESS4 recognises that project activities, equipment and infrastructure may increase community exposure to risks and impacts. In addition, communities that are already exposed to the impacts of climate change may also be more exposed to impacts from project activities. ESS4 addresses health, safety and security risks and impacts on project-affected communities and the Borrowers' responsibilities to prevent or minimise such risks and impacts, with particular attention to people who may be harmed because of their particular circumstances.
ESS5	Land Acquisition, Land Usage Constraints and Involuntary Resettlement **(This is ESS KADEV Project not applied for)**	ESS5 recognises that project-related land acquisition and restrictions on land use may have negative impacts on communities and individuals. Project-related land acquisition or restrictions on land use may result in physical displacement (displacement, loss of residential land or loss of shelter), economic displacement (loss of income sources or other livelihoods as a result of loss of access to land, assets or assets), or both. The term "involuntary resettlement" refers to these impacts. Resettlement is considered involuntary when affected persons or communities do not have the right to refuse land acquisition or land use restrictions that result in displacement.

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS6	Conservation of Biodiversity and Sustainable Management of Living Natural Resources **(This ESS is not applicable for KADEV Project)**	The environmental and social assessment set out in ESS1 will consider direct, indirect and cumulative Project-related impacts on habitats and the biodiversity they support. This assessment will consider threats to biodiversity such as habitat loss, degradation and fragmentation, invasive alien species, over-exploitation, hydrological changes, nutrient loading, pollution and incidental capture, as well as projected climate change impacts. Determine the importance of biodiversity or habitats based on their vulnerability and irreplaceability at the global, regional or national level, and also take into account the different values placed on biodiversity and habitats by project-affected and other interested parties.
ÇSS7	Historically Under-Served Indigenous people/Sub-Saharan Africa Traditional Indigenous Communities **(This ESS is not applicable for KADEV Project)**	This ESS recognises that Historically Under-Served Indigenous Peoples/Sub-Saharan African Traditional Indigenous Communities have different identities and observations from mainstream groups in national societies and are often disadvantaged by traditional development models.
CSS8	Cultural Heritage	The Borrower shall avoid impacts on cultural heritage. Where avoidance is not possible, the Borrower will identify and implement measures to address impacts on cultural heritage in accordance with the mitigation hierarchy. Where appropriate, the Borrower will develop a Cultural Heritage Management Plan.
CSS9	Financial Intermediary Institutions **(This ESS is not applicable for KADEV 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 Engagement and Information Sharing	This ESS recognises the importance of open and transparent engagement between the Borrower and project stakeholders as an essential element of good international practice. Effective stakeholder engagement can enhance the environmental and social sustainability of projects, strengthen project acceptance and contribute significantly to successful project design and implementation. The Client will engage with stakeholders throughout the project lifecycle, beginning as early as possible in the project development process and at a time that allows for meaningful consultation with stakeholders on project design. The nature, extent and frequency of stakeholder engagement will be proportionate to both the nature and scale of the project and its 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 that are important for the successful management of a project's environmental and social risks. Stakeholder engagement is most effective when initiated at an early stage of project development and is an integral part of early project decisions and 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) commensurate with both the nature and scale of the project and its potential risks and impacts.

Annex İİİ Suggestion & Complaint Form (İnternet)

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

Annex IV Suggestion & Complaint Form (Printed)

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

TÜRKİYE CUMHURİYETİ ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI	**earthquake resistance and energy efficiency in public buildings project (KADEV)**
	COMPLAINT / SUGGESTION FORM
	BOSPHORUS UNIVERSITY
Your T.R. Identity Number	
Your Name	
Your surname	
Province	Istanbul
Select Building	☐ Indoor Swimming Pool ☐ New Geophysics Building ☐ Indoor Sports Hall ☐ Superdorm (Car Parking) ☐ 1. Student Dormitory ☐ YADYOK Classroom A Block ☐ YADYOK Classroom B Block ☐ Social Facility & Dormitory
Your complaint	
Disability Status, if any	☐ Visually Impaired ☐ Hearing Impaired ☐ Movement Disabled ☐ Other ☐ None
Your Return Preference	☐ Email ☐ Telephone ☐ Doesn't want to
Email	
Telephone	

Annex V Complaint Closure Form

The design of the Complaint Closure Form is presented to your attention below.

Complaint Closure No.		
Definition of urgent action required:		
Long-term action description (if necessary):		
Is compensation necessary?	[ ] YES	[] NO
Corrective Action and Control of Decision		
Stage of corrective action		Deadline and Responsible Organisation
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

COMPENSATION AND FINAL GRADES

This section is to be completed and signed by the complainant after receiving the compensation fees and after the complaint has been resolved.

Notes

History:

Complainant

Annex VI Stakeholder Engagement Meeting Content & Records

Project Code	WB/CS-DESSUP-01	Building Name	BOĞAZİÇİ UNIVERSITY NORTH CAMPUS
History	9.03.2023	Start | End Time	14 : 00 | 15 : 00

Annex-VII/Table 1 3 MEETING AGENDA

START TIME	END TIME	ACTIVITY
14 : 00	14 : 10	Opening speech (Moderator Birsen Bakır)
14 : 10	14 : 15	Within the framework of the Law on the Protection of Personal Data, general information on meeting registration and processing of personal data was provided. No participant objected to the meeting recording. • As of 14:15, the entire meeting was recorded in *.mp4 image format and *.m4a audio file format. Meeting messages were also recorded in *.txt format.
14 : 15	14 : 20	Information was given about KADEV project and its objectives. **Photograph 1 SECTIONS OF THE PRESENTATION FILE SHARED_01** 
14 : 20	14 : 24	▪ The general stages of KADEV project were explained. Information was given about the plans to be prepared together with the project & tender documents and their contents. ▪ It was announced that the **Environmental and Social Management Plan** covers the environmental and social impacts of the project, risks and actions to be implemented for the elimination of risks. ▪ The **occupational** health and safety risks related to the manufacturing stages of the **Occupational Health & Safety** Plan will be determined and the measures to be taken for their elimination will be determined.

will be recognised.

Annex VI Stakeholder Engagement Meeting Content & Records

		▪ It was explained that the **Stakeholder Engagement Plan** is a document that will describe the stakeholders who will be directly and indirectly affected by the project and how much and how these stakeholders will be informed about the project and project processes, how feedback (suggestions, complaints, etc.) will be collected, analysed and responded. ▪ The importance of stakeholder participation was mentioned. At the end of the presentation, the details of the communication will be announced. **Photograph 2 SECTIONS OF THE PRESENTATION FILE SHARED_02** 
14 : 24	14 : 31	▪ It was announced that the tests and studies to be carried out for the ground survey to determine the ground condition and these studies will be carried out according to the characteristics of each building. ▪ What stakeholders and employees should do for occupational health and safety stated. ▪ It was announced that the professional competence of employees will be questioned. ▪ Possible environmental impacts related to ground investigation, precautions to be taken and related considerations were stated. ▪ Possible social impacts related to ground investigation, measures to be taken and related considerations were explained.

Photograph 3 SECTIONS OF PRESENTATION FILE SHARED_03

YAPISAL FIZIBILITE

ZEMIN ETÜDÜ:

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

YAPISAL FIZIBILITE

ZEMIN ETÜDÜ:

Bu kapsamda gerçekleştirilecek test & numune sayıları aşağıdadır.

İŞ SAĞLIĞI GÜVENLIĞI

Zemin etüdüne ilişkin risk analizi gerçekleştirilmiş, iş sağlığı ve güvenliği planları hazırlanmış ve çalışanlara aktarılmıştır. Paydaşlarımızın bu çalışmalara ilişkin dikkat etmeleri gereken konular şunlardır:

- Kazıklı sondaj makinası, kamyon manifaturile sondaj noktalarına ilerlenecektir. Söz konusu kamyonların kullanımı, manevraları esnasında kimsenin zarar görmemesi için zemin hallerinde 20m den fazla yaklaşılmaması gerekmektedir. Kamyon ve iş makinelerinin uzanma boyu yaklaşık 20 Lmt dir.
- Sondaj kulesinin kaldırılması esnasında, kule ve tijlerin içinde bina elemanlarının, çıkış dolmamalı, olmadığından emin olunmalıdır.
- Sondaj işlemi yapılan alana 20mt den fazla yaklaşılmaması gerekmektedir. Bunun nasıl için çalışma sahasının etrafı yeterli boyda çekilecektir.
- Sondaj işlemi esnasında gerçekleşebilecek kimyasal kaçakların tespiti ve müdahale için yeterli yağ emici kullanımı önerilir.
- Sondaj işlemi sonrasında yürütülecek olarak 95dB seviyelerine ulaşılmaktadır. Bu nedenle gerekli önlemlerin konsantrasyonların olmasına yönelik eğitimlerin yapılması önemlidir.

Çalışma esnasında maşrama çukurları ve sondaj delikleri kapatılacaktır. Bu suretle takılma, düşme riskleri bertaraf edilmiş olacaktır.

İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR

Çalışanların tamamı aşağıda belirtilen ve kendilerine teslim edilen kişisel koruyucu donanımları usulüne şekilde kullanmakla yükümlüdür. Söz konusu donanımları uygun şekilde taşımayan/kullanmayanların çalışmalarına izin verilmeyecektir.

- Bone - TS EN 397+A1
- Kulak Tıkacı - TS EN 352-2
- Koruyucu Gözlük - TS EN ISO 16321-3
- Genel Amaçlı İş Eldiveni - TS EN ISO 21420
- İş Ayakkabısı - TS EN ISO 20345
- Yarım Yüz Maskesi - TS EN 140
- Paraşüt Tipi Emniyet Kemeri - TS EN 361 (Sadece Sondörler)

İŞ SAĞLIĞI GÜVENLIĞI - ÇALIŞANLAR

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

MESLEKI YETERLILIK

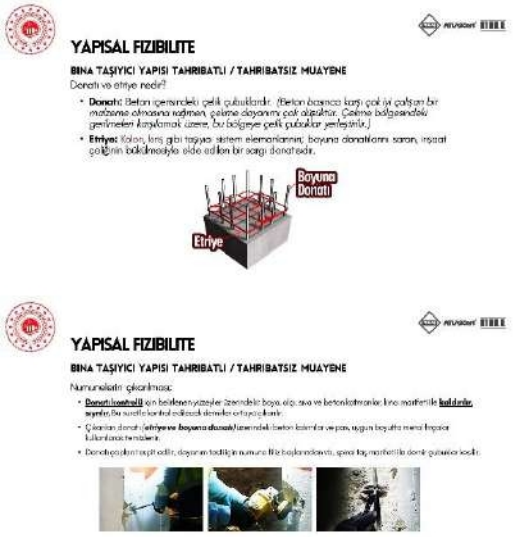
Sondaj çalışmaları yetkili Sondörler tarafından gerçekleştirilecektir.

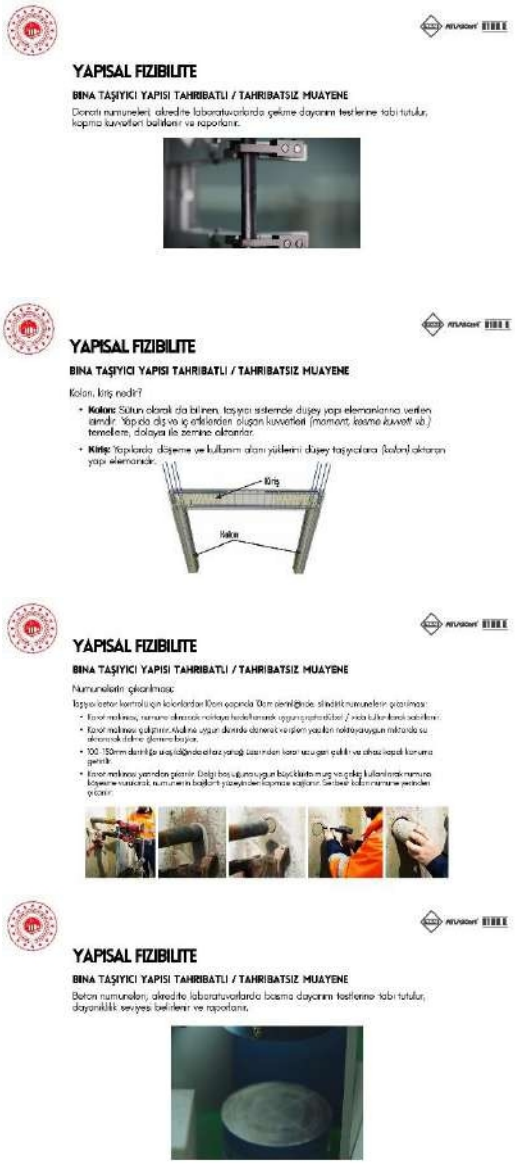
- Sondör: Sondaj makine ve ekipmanlarını kullanarak yer altı ve yer üstünün değişik katmanlarında sondaj bilgisayar hazırlığı, sondaj kuyusu açma ve numune alma gibi işlemler yapan kimsedir.

Sondaj makinası taşımada kullanılan kamyonlar: C sınıfı ehliyet sahibi şoförler tarafından kullanılacaktır.

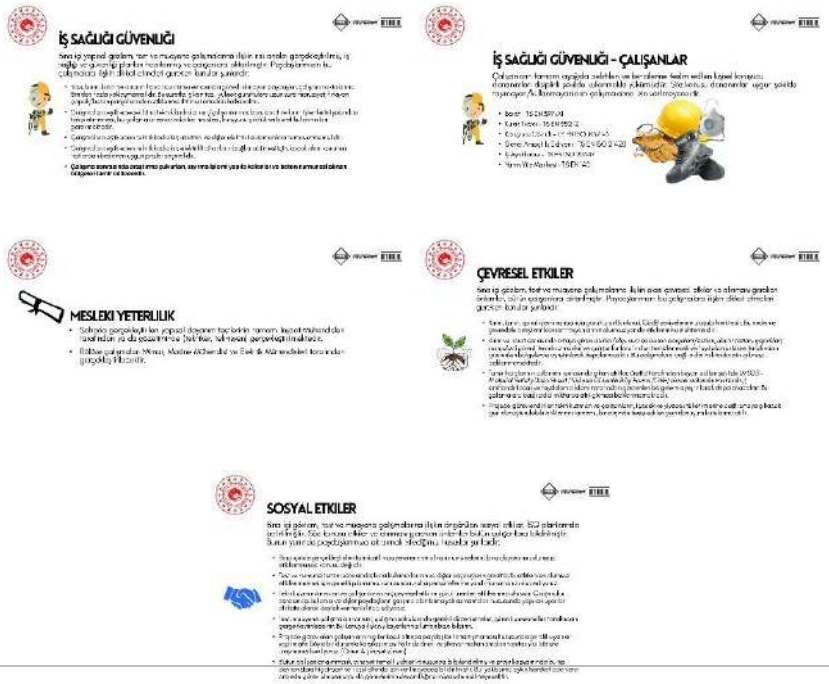
- Detailed information was given about the building carrier structure, destructive and non-destructive testing, the process was explained. Information was given about sample determination and observations.

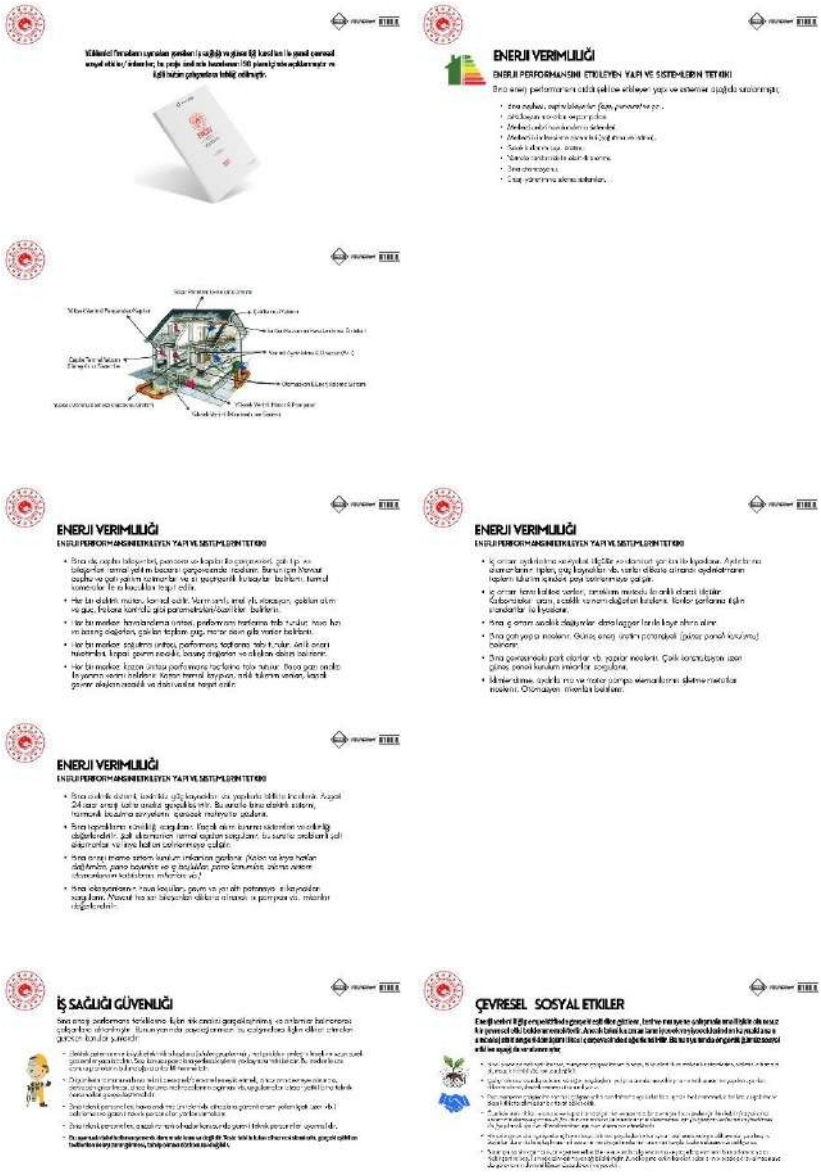
Photograph 4 SECTIONS OF THE PRESENTATION FILE SHARED_04

		 
14 : 31	14 : 35	▪ An explanation was made about the destructive and non-destructive examinations to be carried out after the ground investigation. ▪ Information was given about reinforcement and stirrups. ▪ It was explained how the samples would be extracted. **Photograph 5 SECTIONS OF PRESENTATION FILE SHARED_04** 
14 : 35	14 : 38	▪ It is stated that the samples taken will be subjected to tensile strength test. ▪ It is explained that the sample to be taken for core test will be taken from the carriers. It is explained that the durability of these samples will be measured by compression strength tests.

		Photograph 6 SECTIONS OF PRESENTATION FILE SHARED_05 
14 : 38	14 : 40	▪ It was stated that the samples taken were taken from places that were not under force, the parts damaged by column stripping and the places where concrete samples were taken would be filled with high strength filling mortars and repaired. **Photograph 7 SECTIONS OF PRESENTATION FILE SHARED_06** 
14 : 40	14 : 45	General explanations on occupational health and safety plans were made within this framework; ▪ The issues taken into account within the framework of OHS plans were explained item by item. ▪ The areas where renovation works will be carried out can only be accessed by authorised individuals, therefore, building users may not be able to

		access the areas in some periods.

		will be restricted. It was reminded that work plans should be evaluated within this framework. ▪ General OHS rules and especially the measures to be taken for environmental safety measures were mentioned. ▪ It was underlined that the devices should not be touched while working with the devices and that the technical personnel should show the sockets fed from the leakage current protected lines for the connection of electrical devices. ▪ The importance of professional competence is mentioned. For example; it is stated that Civil Engineers and Construction Technicians under their supervision will take part in structural equipment tests. ▪ The environmental impacts of all activities and the measures to be taken are communicated to all employees and the issues that stakeholders should pay attention to are explained. ▪ It is stated that the wastes will be cleaned by technical experts and employees and segregated in the areas indicated by the Administration. ▪ Foreseen social impacts related to in-building observation, testing and inspection activities are indicated in OHS plans. ▪ It was emphasised again that the samples to be taken would not adversely affect the structural aspects of the building. Photograph 8 SHARED SECTIONS OF PRESENTATION FILE_07 
14 : 45	14 : 50	▪ It is stated that OHS rules and general environmental social impacts/measures that the contractor companies must comply with are explained in the OHS plan prepared specifically for this project and notified to the relevant employees. ▪ In addition to structural feasibility, it is stated that studies will be carried out on the energy efficiency of the buildings and various controls and inspections will be carried out to understand the current condition of the building before these.

		Photograph 9 SECTIONS OF PRESENTATION FILE SHARED_07 
14 : 50	14 : 54	Explanations were made on stakeholder participation, receiving and evaluating suggestions and complaints and informing the relevant parties about this process (decisions taken regarding suggestions and complaints, additional measures implemented, etc.). ▪ It was announced that suggestions and complaints can be received via digital form, telephone, e-mail addresses and QR code. ▪ Suggestions and complaints can be submitted by specifying the name of the building via the Alo 181 call line stated. ▪ Printed feedback forms were introduced and information was given about the suggestion and complaint boxes to be installed in the building and the control periods. ▪ It was announced that complaints about gender-based violence (harassment, abuse, etc.) and gender-based discrimination will also be evaluated within the scope of the complaint resolution mechanism.

		Photograph 10 SECTIONS OF THE PRESENTATION FILE SHARED_08 
14 : 54	15 : 00	The questions of the participants were answered. Closing speech was made and the meeting was finalised.

Questions and Answers

Annex-VII/Table 2 QUESTION & ANSWER LIST

	NAME SURNAME NAME	QUESTION	NAME SURNAME NAME	ANSWER
01	Participant	When will the work start?	Consultant	After the current analyses, when the tender process is over, the works will be carried out. will start it has been said.
02	Participant	How long will the work last?	Consultant	It is stated that the project phase will last a maximum of 12 months.