REPUBLIC OF TÜRKİYE
MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE
GENERAL DIRECTORATE OF CONSTRUCTION AFFAIRS

Seismic Resilience & Energy Efficiency in Public Buildings Project (SREEPB)

Structural Assessment, Energy Audit, Structural-Energy Retrofit Design and Construction Supervision Consultancy Services for the Buildings of Istanbul University-Cerrahpaşa Rectorate, Büyükçekmece Campus (WB/CS-DESSUP-03)

REVISED ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

FOR THE BUILDINGS OF ISTANBUL UNIVERSITY-CERRAHPAŞA RECTORATE, BÜYÜKÇEKMECE CAMPUS

OCTOBER 2025

Mühendislik Müşavirlik Proje ve Yönetim Hizmetleri A.Ş.

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Abbreviations

BP	Bank Procedure
CİMER	Presidency's Communication Center
Consultant	TİMA & OBS
C-ESMP	Contractor Environmental and Social Management Plan
dBA	Noise Assessment Measure (According to A curve)
dBC	Noise Assessment Measure (According to C curve)
E&S	Environmental and Social
E-ÇBS	Integrated Environmental Information System
EIA	Environmental Impact Assessment
EHS	Environment, Health and Safety
ESF	Environmental and Social Management Framework
ESIA	Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESS	Environmental and Social Standards
GBV	Gender-based Violence
GDCA	General Directorate of Construction Affairs
GHG	Greenhouse Gases
GM	Grievance Mechanism
HAYEF	Hasan Âli Yücel Faculty of Education
IFC	International Finance Corporation
ILO	International Labour Organization
İÜ	İstanbul University
LC Max	Peak Value of C-weighted RMS Sound Level Measured in dBC Over the Measurement Period
LLST	Label Lock Secure Test
LMP	Labor Management Plan
MoEUCC	Ministry of Environment, Urbanisation and Climate Change
MSDS	Material Safety Data Sheet
OHS	Occupational Health and Safety
PIU	Project Implementation Unit
PPE	Personal Protective Equipment
SEA	Sexual Exploitation and Abuse
SEF	Stakeholder Engagement Framework
SES	Solar Energy System
SH	Sexual Harassment
SPS	Solar Power System
SREEPB	Seismic Resilience and Energy Efficiency in Public Buildings
TSE	Turkish Standards Institute
TSVS	School of Technical Sciences Vocational
WHO	World Health Organization
VHS	Vocational Higher School
WB	World Bank
WBG	World Bank Group
WMP	Workforce Management Plan
YİMER	Foreign Communication Center

Executive Summary

Seismic Resilience and Energy Efficiency in Public Buildings (SREEPB) Project will support the structural reinforcement and renovation or demolition and reconstruction of public buildings with high seismic risk and low energy efficiency, such as dormitories, social service institutions, government houses, and hospitals. In this context, the sub-project with reference number WB/CS-DESSUP-03 covers the following buildings within the Istanbul University-Cerrahpaşa Büyükçekmece Campus: Block A Institute of Forensic Sciences and Legal Medicine, Block B Hasan Âli Yücel Faculty of Education (HAYEF) and School of Technical Sciences Vocational (TBMYO), Block D TBMYO Additional Building, Block E TBMYO, Block F HAYEF, Block H School of Foreign Languages, and Block R Laboratory and Faculty of Health Services.

This Environmental and Social Management Plan (ESMP) provides information on the structural reinforcement and energy efficiency-focused renovation works to be carried out at Istanbul University-Cerrahpaşa Büyükçekmece Campus, located at Yiğittürk Cad. No: 5/9/1, Cerrahpaşa Alkent 2000 Mah., Büyükçekmece, Istanbul. The plan outlines the required measures to ensure that the environmental and social impacts that may arise from the renovation activities remain within acceptable levels and/or are eliminated.

This document has been evaluated according to the national and international regulations governing the aforementioned works. Additionally, this ESMP provides information on stakeholder engagement activities to be carried out within the project scope and the establishment of a grievance mechanism (GM), while also detailing the roles and responsibilities of the relevant parties in the project.

The Environmental and Social Management Plan (ESMP) for the subproject was prepared by the consultant and approved by the PUB on April 28, 2025. The solar panels planned to be installed on the parking lot within the scope of the project have been transferred to the Türkiye Energy Efficiency in Public Buildings Project (KAYEP), which is being implemented under the General Directorate of Construction Affairs of the Ministry of Environment, Urbanization and Climate Change. The document in question is being revised due to their installation on the roofs of Blocks R and H as part of the KADEV project.

Introduction

This Environmental and Social Management Plan (ESMP) aims to clearly outline the measures to be taken during the implementation phases of structural reinforcement and energy efficiency-focused activities at the Istanbul University-Cerrahpaşa Rectorate's Büyükçekmece Campus, located at Yiğittürk Cad. No: 5/9/1, Cerrahpaşa Alkent 2000 Mah., Büyükçekmece, Istanbul, on Parcel No. 4 of Block 226. These activities include the Institute of Forensic Sciences and Legal Medicine in Block A, the Hasan Âli Yücel Faculty of Education (HAYEF) and School of Technical Sciences Vocational (TBMYO) in Block B, the Additional Building of TBMYO in Block D, TBMYO in Block E, HAYEF in Block F, the School of Foreign Languages in Block H, and the Laboratory and Faculty of Health Services in Block R.

The plan specifies who will implement the measures, when, how often, and in what manner they will be applied, with the goal of maintaining or eliminating any potential adverse environmental and social impacts during the work. It also includes the necessary precautions regarding occupational health and safety.

Additionally, this ESMP provides information on stakeholder engagement activities and the establishment of a grievance mechanism (GM) within the project, detailing the roles and responsibilities of the relevant parties.

This ESMP has been prepared in compliance with Turkish laws and regulations, as well as the policies and measures of the World Bank.

The Environmental and Social Management Plan (ESMP) for the subproject was prepared by the consultant and approved by the PUB on April 28, 2025. The solar panels planned to be installed on the parking lot within the scope of the project have been transferred to the Türkiye Public and Municipal Renewable Energy (PUMREP), which is being implemented under the General Directorate of Construction Affairs of the Ministry of Environment, Urbanization and Climate Change. The document in question is being revised due to their installation on the roofs of Blocks R and H as part of the KADEV project. Furthermore, changes to mechanical/electrical projects are also incorporated into this document, thereby revising the existing ESMP.

1. General Project and Project Site Information

1.1 Project Description

1.1.1. General Information & Objectives

The main objective of the Seismic Resilience and Energy Efficiency in Public Buildings (SREEPB) Project is to strengthen public buildings that are inefficient in energy use and at high seismic risk (such as educational buildings, dormitories, hospitals, and administrative buildings) against earthquakes, while also improving energy efficiency in these buildings. Additionally, the project aims to increase public awareness by constructing earthquake-resistant and energy-efficient buildings.

The project involves determining the seismic behavior of the foundations and structural systems of existing public buildings with different uses, and working to eliminate risks through structural reinforcement. The project also aims to improve energy efficiency, reduce energy consumption and CO_2 emissions, monitor and control energy consumption, address the current energy deficit, and create a model to make all public buildings in Türkiye energy-efficient after the project is completed. This will also contribute to the development of the sector and raise awareness.

The structural reinforcement works in the project include building structural system renovations and additions, as well as ground reinforcement works if necessary. The energy efficiency-focused works cover facade and roof insulation, replacement of facade components such as windows and doors, mechanical system revisions, changes in HVAC systems, revisions and changes in ventilation systems, integration of building energy monitoring and automation systems into the existing electrical system, and the installation of solar panels for electricity generation.

Within the framework of the World Bank's Environmental and Social Framework (ESF) and the defined Environmental and Social Standards, the SREEPB Project is considered to have a "Moderate" level Environmental and Social Risk Rating. This is due to the fact that the activities to be carried out will not cause irreversible adverse environmental and social impacts and risks, any potential effects/risks are expected to be temporary and reversible, the scale and nature of the potential effects/risks are moderate, and the sub-project areas are not located in sensitive environmental or social areas. Additionally, no significant adverse impacts on human health and the environment are anticipated from the project activities.

The buildings included in the scope of this Environmental and Social Management Plan (ESMP) are located in the Büyükçekmece district of Istanbul. Construction activities will take place at the Istanbul University-Cerrahpaşa Rectorate's Büyükçekmece Campus, and include the following buildings: Block A Institute of Forensic Sciences and Legal Medicine, Block B HAYEF and TBMYO, Block D TBMYO Additional Building, Block E TBMYO, Block F HAYEF, Block H School of Foreign Languages Vocational, and Block R Laboratory and Faculty of Health Services.

These buildings will be gradually evacuated by the Beneficiary Institution during construction activities. Therefore, it is likely that the daily activities of building staff will overlap with the project's activity schedule. Additionally, the KLMN Block, which will remain in use during the construction activities, is expected to be affected by the construction works. However, these impacts will be minimized with the measures to be taken. Furthermore, the use of other buildings within the campus will continue during the construction activities. Necessary precautions will be taken to keep the impacts on other buildings within the campus or the district at acceptable levels, and all measures are detailed in Table 6.

It is anticipated that the activities carried out as part of the construction works, due to their nature, will cause minimal environmental and social impacts that are not critical within the scope of the current project boundaries. Within the Environmental and Social Standards defined in the World Bank's Environmental and Social Framework (ESF), the SREEPB Project is assessed with a Moderate level Environmental Risk Rating because the planned activities will not create permanent negative environmental and social impacts or risks, the potential impacts are expected to be temporary and reversible, the scale and nature of the potential impacts/risks are moderate, and the sub-project areas are not in environmentally or socially sensitive locations. It is also not expected that these activities will cause significant adverse effects on human health or the environment.

The renovation, repair, and energy efficiency works to be carried out under the SREEPB Project are exempt from the Environmental Impact Assessment (EIA) process according to the EIA Regulation.

This ESMP has been prepared as a guiding document for the SREEPB Project in accordance with WB and national regulations and best practices to eliminate, or if not possible, minimize environmental impacts such as waste generation (hazardous and non-hazardous), air and water pollution; social impacts such as conflicts with daily institutional activities; and occupational health and safety (OHS) impacts concerning the health and safety of workers and beneficiaries.

The project will be executed with the financing of the World Bank and will be managed by the General Directorate of Construction Affairs (GDCA) of the Ministry of Environment, Urbanization and Climate Change (MoEUCC). GDCA will be responsible for overseeing the control, management, and coordination of the project's implementation. The Consultant company will be responsible for the preparation of this ESMP, as it is an integral part of the project's specifications and tender documents, and for ensuring that all activities undertaken throughout the project comply with this ESMP. The contractor will also be responsible for implementing the ESMP on-site.

1.1.2. Project Information

The information regarding the buildings within the scope of the sub-project is provided in Table 1.

Figure 1 Büyükçekmece Campus Site Plan

Table 1 Project Site Information

<table>
<tr><th colspan="3">GENERAL INFORMATION</th></tr>
<tr><td>Campus Name</td><td colspan="2">İstanbul University-Cerrahpaşa Rectorate Büyükçekmece Campus</td></tr>
<tr><td>Province</td><td colspan="2">İstanbul</td></tr>
<tr><td>District</td><td colspan="2">Büyükçekmece</td></tr>
<tr><td>Address</td><td colspan="2">Alkent 2000 Mah. Yiğittürk Cad. No:5/9/1 Büyükçekmece/İSTANBUL</td></tr>
<tr><td>Usage Status</td><td colspan="2">The buildings are currently used as public buildings/university buildings.</td></tr>
<tr><td>Institution Using the Building</td><td colspan="2">Istanbul University-Cerrahpaşa Rectorate</td></tr>
<tr><td>Number of Users</td><td colspan="2">
<table>
<tr><th>BLOCK</th><th colspan="2">NUMBER OF USERS (MONTHLY)</th></tr>
<tr><th>BLOCK NO</th><th>NUMBER OF USERS STUDENT</th><th>NUMBER OF USERS STAFF</th></tr>
<tr><td>A</td><td>800 (Summer Term 3 month 0)</td><td>150</td></tr>
<tr><td>B</td><td>1150 (Summer Term 3 month 100)</td><td>74</td></tr>
<tr><td>D</td><td>1242 (Summer Term 3 month 0)</td><td>25</td></tr>
<tr><td>E</td><td>5000 (Summer Term 3 month 0)</td><td>112</td></tr>
</table>
</td></tr>
</table>

	F	2870 (Summer Term 3 month 0)	162
	H	1000 (Summer Term 3 month 0)	70 (Summer Term 3 month 35)
	R	130	145

PROJECT BUILDING INFORMATION	
Number of Buildings	7 Buildings
Building Names *(included in the project)*	1. BLOCK A FORENSIC MEDICINE INSTITUTE AND VETERINARY FACULTY 2. BLOCK B HASAN ALİ YÜCEL FACULTY OF EDUCATION (HAYEF) AND SCHOOL of TECHNICAL SCIENCES VOCATIONAL (TBMYO) 3. BLOCK D SCHOOL of TECHNICAL SCIENCES VOCATIONAL (TBMYO) ADDITIONAL BUILDING 4. BLOCK F HASAN ALİ YÜCEL FACULTY OF EDUCATION (HAYEF) 5. BLOCK of E SCHOOL TECHNICAL SCIENCES VOCATIONAL (TBMYO) 6. BLOCK H SCHOOL OF FOREIGN LANGUAGES VOCATIONAL 7. BLOCK R LABORATORY AND FACULTY OF HEALTH SERVICES
Construction Area	56.524 m^2

PLANNED WORKS TO BE CARRIED OUT IN THE BUILDINGS

STRUCTURAL REINFORCEMENT:

- Reinforcement of the existing structural system
- Structural reinforcement activities and associated repairs and renovations of floors, ceilings, and walls

Drainage work has been carried out within the scope of structural reinforcement activities.

ENERGY EFFICIENCY RENOVATION WORKS:

- **Replacement of 7 Old Boilers with 17 Wall-Mounted Condensing Boilers:**
  The existing floor-mounted boilers will be dismantled, and wall-mounted condensing boilers will be installed in their place. Upon completion of this work, a total energy savings of 427.689,90 kWh in natural gas, a total energy savings of 10.358,09 kWh in electricity and a reduction of 104,64 tons of emissions per year will be achieved.
- **Insulation of Installation Equipment with Valve Jackets:**
  Mechanical installation equipment will be insulated. Completion of this work will result in energy savings of 53.690,28 kWh in natural gas and a reduction of 12,56 tons of emissions per year.
- **Replacement of Inefficient Indoor Lighting Fixtures with LED Lighting Fixtures:**
  Inefficient lighting fixtures in the buildings will be replaced with suitable LED fixtures. Upon completion of this work, a total energy savings of 277,626.30 kWh in electricity and a reduction of 122.16 tons of emissions per year will be achieved.
- **Installation of Energy Monitoring System and automation system:**
  An energy monitoring system has been installed in the buildings to track the energy efficiency renovation works. Upon completion of this work, a total energy savings of 413,37 kWh in electricity, a reduction of 0.18 tons of emissions per year, an energy savings of 51265,68 kWh in natural gas, and a reduction of 12 tons of emissions per year will be achieved.
- **Roof-Mounted PV System Installation with an Installed Capacity of 263 kWp on Blocks R and H:**
  Photovoltaic panels will be installed on the roofs of Blocks R and H to generate electricity. Upon completion, this project will result in savings of 346,300.00 kWh and an annual emission reduction of 152.39 tons.

  Upon completion of the aforementioned works, a total energy savings of 634.738,25 kWh in electricity, 1.693.435,86 kWh in natural gas, and a total of 2.328.174,11 kWh in energy savings, along with a reduction of 675,55 tons of emissions, will be achieved.

DURATION AND SEASON OF ACTIVITIES

The works to be carried out within the scope of the project will take place between the second quarter of 2025 and the first quarter of 2026. The Contractor is obligated to complete the work in the buildings within the planned time, as outlined in the Contractor's Job Description. Additionally, the Contractor will clearly inform all stakeholders about the construction activities' timeline before starting any construction work.

EXPECTED NUMBER OF WORKERS

The expected number of workers is fifty (50) for daily reinforcement works, twenty-five (25) for energy renovation works, in total seventy-five (75) workers. This number may vary during the construction period.

1.1.3. Campus & Building Locations

Within the scope of the project, the following buildings located at Istanbul University-Cerrahpaşa Rectorate's Büyükçekmece Campus are included:

- Block A Institute of Forensic Sciences and Legal Medicine
- Block B HAYEF and TBMYO
- Block D TBMYO Additional Building
- Block E TBMYO
- Block F HAYEF
- Block H School of Foreign Languages Vocational
- Block R Laboratory and Faculty of Health Services

The satellite images and coordinates of the buildings are shown below.

Figure 2 İstanbul University Cerrahpaşa Rectorate Büyükçekmece Campus

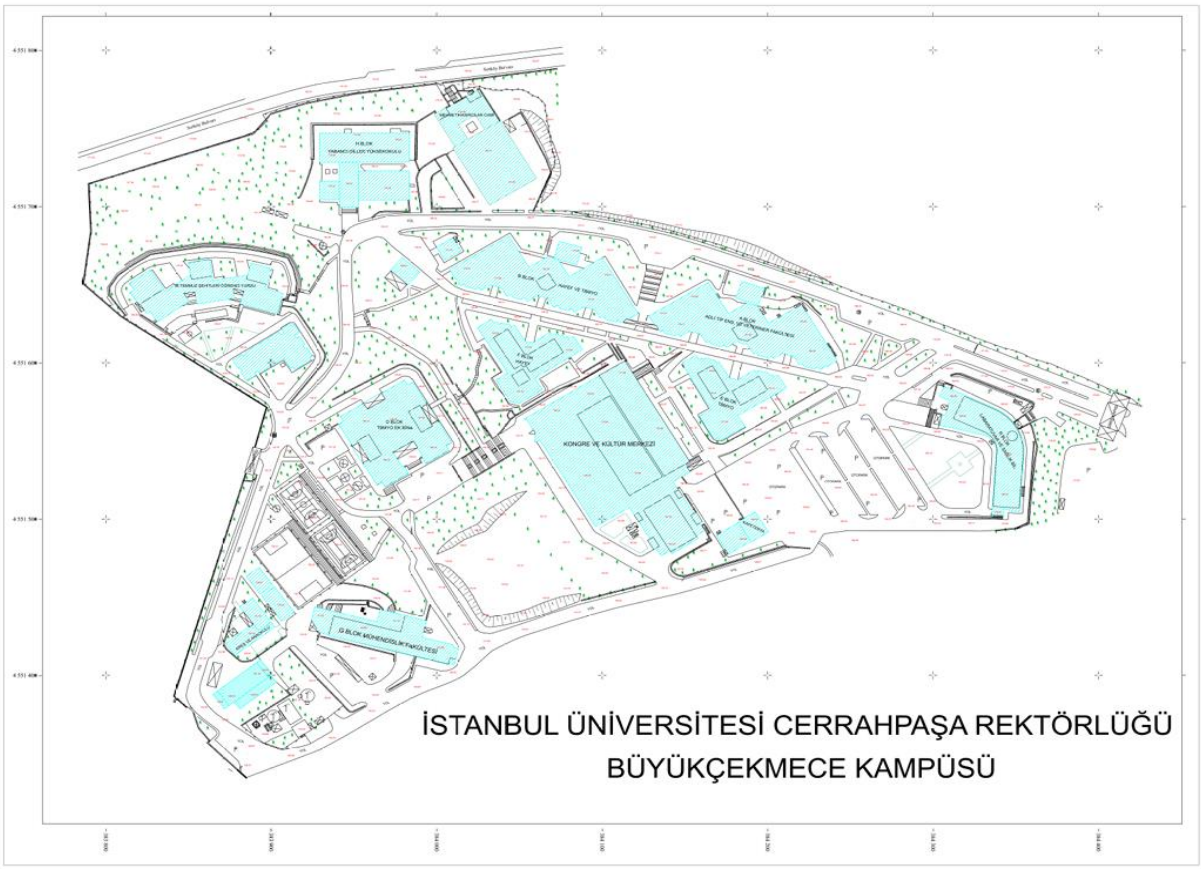
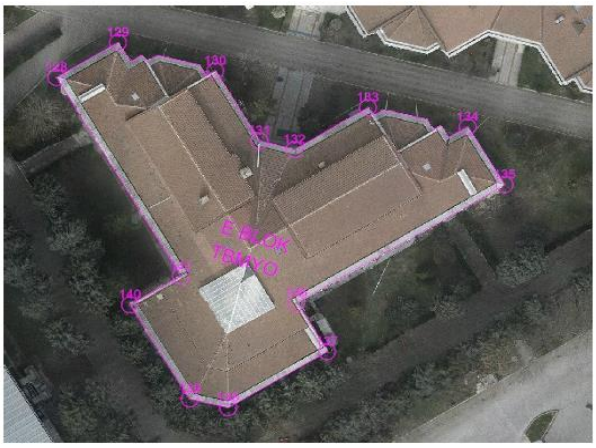


Figure 3 Application Diagram

A BLOK ADLİ TIP ENST. VE VETERİNER FAKÜLTESİ		
Nokta No	Boylam	Enlem
97	28.6209038684	41.0913071946
98	28.6209866051	41.0912171094
99	28.6221479390	41.0910171143
100	28.6222636300	41.0910652917
101	28.6220008485	41.0913864527
102	28.6217647698	41.0912758918
103	28.6216832364	41.0913743705
104	28.6216028597	41.0913870063
105	28.6214753219	41.0913274783
106	28.6213280614	41.0915055680
222	28.6211314557	41.0911914941
223	28.6211967728	41.0912214726
224	28.6212795264	41.0912076912
225	28.6213202454	41.0911575282
226	28.6214664272	41.0911318484
227	28.6215483309	41.0911707782
228	28.6216096351	41.0911588517
229	28.6216602157	41.0910972115
230	28.6218038476	41.0910715381
231	28.6218696602	41.0911019155
232	28.6219515227	41.0910868003
233	28.6219931898	41.0910375963

CERRAHPAŞA B BLOK HAYEF VE TBMYO		
Nokta No	Boylam	Enlem
83	28.6194654145	41.0915578018
84	28.6195480988	41.0914662510
85	28.6206994904	41.0912646998
86	28.6208271581	41.0913184590
87	28.6205615404	41.0916379594
88	28.6203250270	41.0915273569
89	28.6202434356	41.0916245631
90	28.6201649462	41.0916386020
91	28.6200362061	41.0915775575
92	28.6198871522	41.0917559236
234	28.6196920686	41.0914400343
235	28.6197571457	41.0914703599
236	28.6198397766	41.0914571785
237	28.6198815179	41.0914072470
238	28.6200272153	41.0913814578
239	28.6201074853	41.0914196734
240	28.6201697119	41.0914088734
241	28.6202202763	41.0913480193
242	28.6203660538	41.0913223476
243	28.6204320360	41.0913539099
244	28.6205151821	41.0913386782
245	28.6205559708	41.0912898094

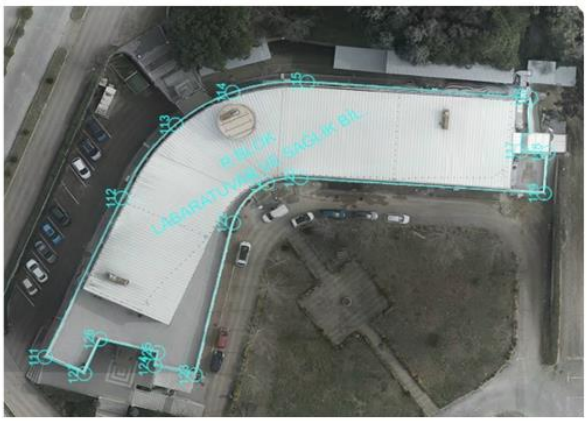


CERRAHPAŞA D BLOK TBMYO EK BİNA		
Nokta No	Boylam	Enlem
156	28.6186975225	41.0907019589
157	28.6191540175	41.0909168521
158	28.6194853670	41.0905142494
159	28.6193192968	41.0904358647
160	28.6192255151	41.0905659651
161	28.6190784799	41.0904984222
162	28.6191954106	41.0903779934
163	28.6190288100	41.0902991501

CERRAHPAŞA E BLOK TBMYO		
Nokta No	Boylam	Enlem
128	28.6211464110	41.0910378197
129	28.6212487587	41.0910858594
130	28.6214130731	41.0910497980
131	28.6214892052	41.0909571668
132	28.6215485311	41.0909461189
133	28.6216707139	41.0910038907
134	28.6218387372	41.0909799826
135	28.6219025404	41.0909033978
136	28.6215561200	41.0907413095
137	28.6216088176	41.0906764499
138	28.6214440065	41.0905994695
139	28.6213793465	41.0906102001
140	28.6212763655	41.0907350437
141	28.6213610122	41.0907746745

CERRAHPAŞA F BLOK HAYEF		
Nokta No	Boylam	Enlem
142	28.6204304793	41.0911083493
143	28.6203636124	41.0911841951
144	28.6201942730	41.0912047257
145	28.6200727481	41.0911430320
146	28.6200196995	41.0911498578
147	28.6199380879	41.0912440031
148	28.6197719459	41.0912754483
149	28.6196714466	41.0912254997
150	28.6198969002	41.0909666898
151	28.6198129788	41.0909257154
152	28.6199201313	41.0908023275
153	28.6199847772	41.0907928924
154	28.6201461244	41.0908738239
155	28.6200915869	41.0909383378

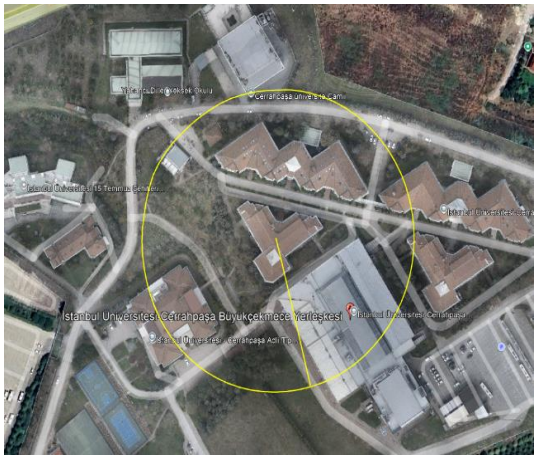
CERRAHPAŞA H BLOK YABANCI DİLLER YÜKSEK OKULU		
Nokta No	Boylam	Enlem
1	28.6185120195	41.0923325121
2	28.6191612413	41.0923404063
3	28.6191623615	41.0921734993
4	28.6185164539	41.0921651038
5	28.6186589396	41.0921669561
6	28.6187977457	41.0921687605
7	28.6187989261	41.0921170933
8	28.6191627540	41.0921218905
9	28.6191686438	41.0919551838
10	28.6188027325	41.0919504839
11	28.6188037186	41.0919073176
12	28.6186655281	41.0919056187
13	28.6186644043	41.0919501918
14	28.6185213024	41.0919479686
15	28.6185186126	41.0920556312
16	28.6186617059	41.0920572299



CERRAHPAŞA R BLOK LABORATUVAR VE SAĞLIK BİLİMLERİ		
Nokta No	Boylam	Enlem
111	28.6230360794	41.0909276371
112	28.6233701943	41.0908169885
113	28.6235252164	41.0907389818
114	28.6235944882	41.0906553564
115	28.6236182800	41.0905443762
116	28.6235923689	41.0902118736
117	28.6234808553	41.0902245430
118	28.6234776520	41.0901849821
119	28.6233935783	41.0901889631
120	28.6234179780	41.0905518468
121	28.6234064204	41.0906015769
122	28.6233221782	41.0906511349
123	28.6230037547	41.0907039420
124	28.6230211291	41.0907643982
125	28.6230490589	41.0907599244
126	28.6230750172	41.0908462051
127	28.6230025193	41.0908686035

Figure 4 Application Diagram

During the reinforcement and renovation works in the buildings within the campus area, any potential negative impacts will primarily occur inside the building. Since no soil improvement works are required, the limited amount of noise and dust generation, traffic increase, parking area shortage, vibration, and visual impacts that may affect nearby buildings are restricted to a distance of 100 meters. The major impact area is shown in the following shapes.



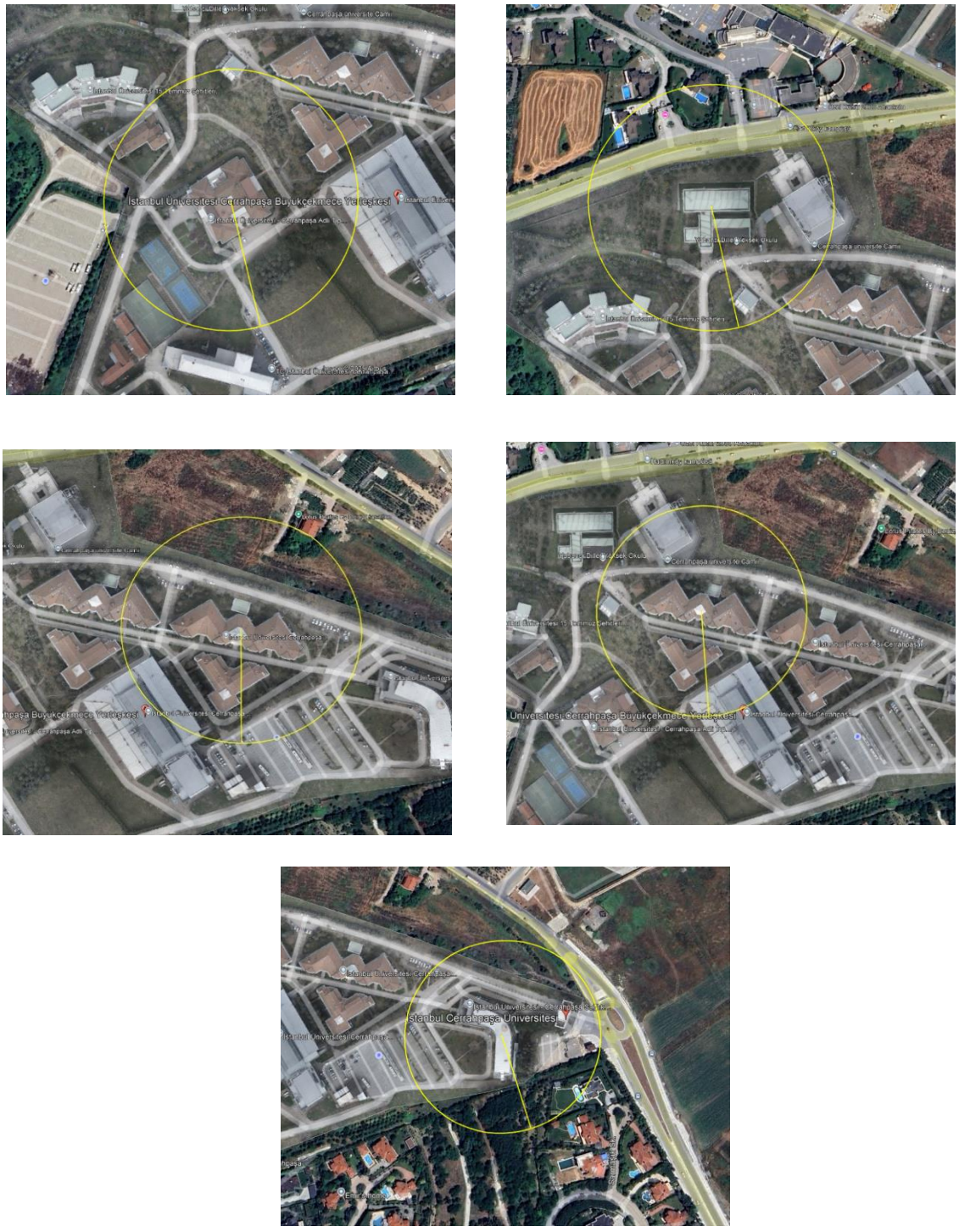


Figure 5 *Major Impact Areas*

Within the major impact area, the Congress and Culture Center, Cerrahpaşa University Mosque, Istanbul University 15 July Martyrs Women's Dormitory, Cafeteria, Mosque, Sports Fields, and KLMN Block are located. Additionally, the privately owned Espressolab Cafe is also within the impact area. No issues are anticipated with access to the business, and no revenue loss is expected.

A Block Impact Areas;
- B Block: 15m
- KLMN Block: 35m
- E Block: 15m

B Block Impact Areas;
- A Block: 15m
- KLMN Block: 30m
- E Block: 45m
- F Block: 25m
- Espressolab Kafe: 20m
- Mosque: 25m

D Block Impact Areas;
- F Block: 50m
- KLMN Block: 50m
- Dormitory Building: 45m
- Sports Fields: 40m
- Espressolab Kafe: 60m

E Block Impact Areas;
- A Block: 15m
- KLMN Block: 20m
- F Block: 60m
- B Block: 45m
- Cafeteria:60m

F Block Impact Areas;
- KLMN Block: 10m
- B Block: 25m
- E Block: 60m
- D Block: 50m

R Block Impact Areas;
- Otopark: 50m

H Block Impact Areas;
- B Block: 50m
- B Block: 25m
- Dormitory Building: 65m
- Mosque: 35m
- Espressolab Kafe: 40m

The Istanbul University 15 Temmuz Şehitleri Women's Dormitory is not in use as it is part of the DESSUP-01 sub-project, which is being carried out under the SREEPB Project. In addition to the seven buildings within the scope of the sub-project, information about the grievance box and grievance mechanism has been placed in the major impact area, including the heavily used KLMN Block. Users will be informed about the sub-project through posters, and a total of eight grievance boxes will be checked twice a week. The collected grievances will be examined within the grievance mechanism and the process will be carried out in accordance with the procedure.

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

This section outlines the national and international regulations as well as World Bank measures that must be followed throughout the sub-project.

2.1 National Legislation

This Environmental and Social Management Plan (ESMP) has been primarily prepared in accordance with the Republic of Türkiye's legislation. The main framework for Türkiye's environmental legislation is the Environmental Law (Law No. 2872), published in the Official Gazette on 11 August 1983, and most recently revised regarding administrative fines in the Official Gazette dated 24 December 2024, No. 32762. This law is supported by regulations. Below are the national laws and regulations primarily referred to for assessing and preventing environmental and social impacts within the scope of this project:

1. Waste Management Regulation, published in the Official Gazette dated 2 April 2015, No. 29314, and amended in the Official Gazette dated 23 March 2017, No. 30016.
2. Regulation on the Control of Packaging Waste, published in the Official Gazette dated 26 June 2021, No. 31523.
3. Regulation on the Control of Excavation Soil, Construction, and Demolition Waste, published in the Official Gazette dated 18 March 2004, No. 25406, and amended in the Official Gazette dated 9 October 2021, No. 31623.
4. Regulation on Air Quality Assessment and Management, published in the Official Gazette dated 6 June 2008, No. 26898.
5. Regulation on the Prevention of Risks from Biological Agents, published in the Official Gazette dated 15 June 2013, No. 28678.
6. Zero Waste Regulation, published in the Official Gazette dated 12 July 2019, No. 30829, and amended in the Official Gazette dated 9 October 2021, No. 31623.
7. Regulation on the Control of Soil Pollution and Point-Source Contaminated Sites, published in the Official Gazette dated 8 June 2010, No. 27605, and most recently revised in the Official Gazette dated 11 July 2013, No. 28704.
8. Water Pollution Control Regulation, published in the Official Gazette dated 31 December 2004, No. 25687, and most recently amended in the Official Gazette dated 12 May 2023, No. 32188.
9. Environmental Noise Control Regulation, published in the Official Gazette dated 30 November 2022, No. 32029.
10. Regulation on Noise Emission from Equipment Used in Open Areas, published in the Official Gazette dated 30 December 2006, No. 26392, and amended in the Official Gazette dated 6 June 2017, No. 30088.

Within the scope of the project, in terms of occupational health and safety, priority effects will be considered in compliance with Law No. 4857 published in the Official Gazette dated 10 June 2003, No. 25134, and the Occupational Health and Safety Law No. 6331 published on 30 June 2012, along with the relevant regulations. The regulations that will primarily be referred to are listed below.

1. Regulation on Subcontractors, published in the Official Gazette dated 27 September 2008, No. 27010, and amended in the Official Gazette dated 25 August 2017, No. 30165.
2. Regulation on Health and Safety Measures in Asbestos Work, published in the Official

Gazette dated 25 January 2013, No. 28539, and amended in the Official Gazette dated 16 January 2014, No. 28884.

3. Regulation on Manual Handling of Loads, published in the Official Gazette dated 24 July 2013, No. 28717.
4. Regulation on Occupational Health and Safety in Temporary or Fixed-Term Work, published in the Official Gazette dated 23 August 2013, No. 28744.
5. Regulation on Health and Safety Measures in Work with Chemicals, published in the Official Gazette dated 12 August 2013, No. 28733.
6. Regulation on the Use of Personal Protective Equipment in Workplaces, published in the Official Gazette dated 2 July 2013, No. 28695.
7. Regulation on Health and Safety Signs, published in the Official Gazette dated 11 September 2013, No. 28762.
8. Regulation on the Professional Training of Workers in Dangerous and Very Dangerous Jobs, published in the Official Gazette dated 13 July 2013, No. 28706, and amended in the Official Gazette dated 11 May 2017, No. 30063.
9. Regulation on Dust Control, published in the Official Gazette dated 5 November 2013, No. 28812.
10. Regulation on Occupational Health and Safety in Construction Works, published in the Official Gazette dated 5 October 2013, No. 28786, and amended in the Official Gazette dated 31 December 2018, No. 30642.
11. Regulation on the Protection of Workers from Noise-Related Risks, published in the Official Gazette dated 28 July 2013, No. 28721.
12. Regulation on the Procedures and Principles for Occupational Health and Safety Training of Workers, published in the Official Gazette dated 15 May 2013, No. 28648, and amended in the Official Gazette dated 24 May 2018, No. 30430.
13. Regulation on Health and Safety Conditions in the Use of Work Equipment, published in the Official Gazette dated 25 April 2013, No. 28628, and amended in the Official Gazette dated 18 February 2022, No. 31754.
14. Regulation on the Duties, Authorities, Responsibilities, and Training of Occupational Safety Experts, published in the Official Gazette dated 29 December 2012, No. 28512, and amended in the Official Gazette dated 6 July 2021, No. 31533.
15. Regulation on Occupational Hygiene Measurement, Testing, and Analysis Laboratories, published in the Official Gazette dated 24 January 2017, No. 29958.
16. Regulation on Occupational Health and Safety Services, published in the Official Gazette dated 29 December 2012, No. 28512, and amended in the Official Gazette dated 6 July 2021, No. 31533.
17. Regulation on Occupational Health and Safety Risk Assessment, published in the Official Gazette dated 29 December 2012, No. 28512.
18. Regulation on Emergency Situations in Workplaces, published in the Official Gazette dated 18 June 2013, No. 28681, and amended in the Official Gazette dated 1 October 2021, No. 31615.
19. Regulation on Stopping Work in Workplaces, published in the Official Gazette dated 30 March 2013, No. 28603, and amended in the Official Gazette dated 11 February 2016, No. 29621.
20. Regulation on the Duties, Authorities, Responsibilities, and Training of Workplace Doctors and Other Health Personnel, published in the Official Gazette dated 20 July 2013, No. 28713, and amended in the Official Gazette dated 6 July 2021, No. 31533.
21. Regulation on Health and Safety Measures in Work with Screen-Based Equipment, published in the Official Gazette dated 16 April 2013, No. 28620.
22. Regulation on the Protection of Workers from Vibration-Related Risks, published in the

Official Gazette dated 22 August 2013, No. 28743.

23. Regulation on the Support of Occupational Health and Safety Services, published in the Official Gazette dated 24 December 2013, No. 28861.
24. Regulation on Occupational Health and Safety Boards, published in the Official Gazette dated 18 January 2013, No. 28532.
25. Regulation on Health and Safety Measures to be Taken in Workplace Buildings and Appendices, published in the Official Gazette dated 17 July 2013, No. 28710.
26. Regulation on the Working Conditions of Pregnant or Breastfeeding Women and the Establishment of Nursing Rooms and Child Care Dormitories, published in the Official Gazette dated 16 August 2013, No. 28737, and amended in the Official Gazette dated 7 September 2019, No. 30881.
27. Regulation on the Working Conditions of Women Workers in Night Shifts, published in the Official Gazette dated 24 July 2013, No. 28717, and amended in the Official Gazette dated 19 August 2017, No. 30159.
28. Freedom of Information Law, published in the Official Gazette dated 24 October 2003, No. 25269.

During the employment of all workers, the basic insurance rights will be determined in accordance with the Social Insurance and General Health Insurance Law No. 5510, dated 16.06.2006.

Additionally, the Environmental Impact Assessment (EIA) Regulation, published under Article 10 of the Environmental Law, was first issued in the Official Gazette dated 7 February 1993, No. 21489, and was last revised and published in the Official Gazette dated 29 July 2022, No. 31907. Since the construction areas will be existing public buildings, the project is not subject to the EIA regulation.

Significant social and environmental impacts that may arise due to the project are likely to affect sensitive receptors located near the project site. In this context, the careful management of ESMPs and OHS activities will be sufficient to mitigate environmental and social impacts.

2.2 National Agreements

1. Council Directive 89/391/EEC of 12/6/1989 on Measures to Improve the Health and Safety of Workers
2. International Labour Organization (ILO) Convention No. 155 on Occupational Health and Safety and the Working Environment
3. ILO Convention No. 161 on Occupational Health Services
4. ILO Convention No. 187 on the Framework Agreement on the Development of Occupational Health and Safety
5. ILO Convention No. 167 on the Safety and Health in the Construction Sector
6. United Nations Framework Convention on Climate Change
7. Paris Agreement (Climate Change)
8. Convention on Long-Range Transboundary Air Pollution

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

Throughout all stages of the project, compliance will be ensured with the requirements of the World Bank Environmental and Social Framework[1] (ESF) and the relevant Environment, Health, and Safety (EHS) Guidelines[2], in addition to national legislation.

The Environmental and Social Standards (ESS), summarized in Annex II, are components of the World Bank Environmental and Social Framework (ESF) and outline the requirements for the project owner regarding the identification and assessment of environmental and social risks and impacts related to projects supported by the World Bank. The applicability of the World Bank Environmental and Social Standards to the SREEPB Project is summarized in Table 2.

Table 2 Applicability of the World Bank Environmental and Social Standards to the Project

Environmental and Social Standards	Uygulanabilirlik
ESS1: Environmental and Social Risk and Impact Assessment and Management	Yes
ESS2: Labor and Working Conditions	Yes
ESS3: Resource Efficiency and Pollution Prevention and Management	Yes
ESS4: Community Health and Safety	Yes
ESS5: Land Acquisition, Land Use Restrictions, and Involuntary Resettlement	No[3]
ESS6: Conservation of Biodiversity and Sustainable Management of Living Natural Resources	No[4]
ESS7: Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities	No[5]
ESS8: Cultural Heritage	Yes
ESS9: Financial Intermediaries	No[6]
ESS10: Stakeholder Engagement and Information Disclosure	Yes

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

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

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

[4] "The activities to be implemented under the project will not have any interaction with natural resources and/or biodiversity elements."

[5] No indigenous group meeting the definition provided in ESS7 can be found in Turkey.

[6] Since no financial intermediary is involved in this project, ESS9 will not be applicable to this project.

3. Activities To Be Carried Out Under The Project

Summary technical information regarding the structural reinforcement and energy efficiency works carried out in the R Block Laboratory and Health Services, A Block Forensic Medicine Institute and Veterinary Faculty, B Block HAYEF and TBMYO, E Block TBMYO, F Block HAYEF, H Block School of Foreign Languages Vocational, and D Block TBMYO Additional Building at Istanbul University-Cerrahpaşa Rectorate's Büyükçekmece Campus is provided in Table 3.

This Environmental and Social Management Plan (ESMP) will be accessible to all stakeholders throughout the project's duration, both at the construction sites and on the project's website (https://kamuguclendirme.csb.gov.tr/). In addition, in order to ensure that stakeholders attend the information meeting with sufficient knowledge about the project, the draft SEP was published 13 days prior to the meeting at the entrances of Blocks A, B, E, F, D, H, R, KLMN, and the Mosque within the Istanbul University-Cerrahpaşa Rectorate Büyükçekmece Campus, next to the complaint boxes, as well as on the official project website (www.kamuguclendirme.csb.gov.tr).

A full-time environmental specialist, a social specialist, and an occupational health and safety (OHS) specialist will be employed by the Contractor; an environmental specialist, a social specialist, and an OHS specialist have been employed by the Construction Supervision Consultancy firm. The Consultant, Contractor, and the Ministry's Project Implementation Unit (PIU) will be responsible for recording and responding to questions and comments from stakeholders regarding environmental, social, and OHS issues.

3.1 Field Works

Table 3. Summary Information on the Activities to be Carried Out

FIELD WORKS	
Definition of the Geographical, Physical, Biological, Geological, Hydrographic, and Socio-Economic Context	A Block  B Block; 

E Block;

D Block;

F Block;

H Block;

	R Block;  During the implementation of project activities (such as scaffold installation, painting, exterior cladding, etc.), it is expected that the construction activities will affect the soil around the buildings. Necessary measures will be taken to prevent hazardous chemicals from contaminating the soil during the activities in this area. In the case of trees around the building, measures will be taken to prevent them from being affected by activities such as scaffold installation. If this is not possible, the trees will be relocated. The measures to be taken for managing the potential environmental and social impacts and risks of the project are presented in detail in Section 5. There are no expected issues with accessing the project area. All necessary infrastructure facilities, such as electricity, water, sewage, natural gas, and internet, are available for the works.
HOSPITALS, HEALTH UNITS, PUBLIC BUILDINGS, HOMES, AND OTHER LOCATIONS WITH THE NEAREST SENSITIVE RECIPIENTS AND DISTANCE	The project area is located within the boundaries of İstanbul University Cerrahpaşa Rectorate Büyükçekmece Campus. The majority of the retrofitting and renovation works will be carried out inside the building. However, preventing negative impacts on nearby settlements from construction activities is addressed in this ESMP and will be controlled and managed with mitigation measures. The other buildings outside of the R Block Laboratory and Health Services, A Block Forensic Medicine Institute and Faculty of Veterinary Medicine, B Block HAYEF and TBMYO, E Block TBMYO, F Block HAYEF, H Block School of Foreign Languages, and D Block TBMYO Annex Building are not expected to be directly affected by the construction activities. • The R Block Laboratory and Health Services, A Block Forensic Medicine Institute and Faculty of Veterinary Medicine, B Block HAYEF and TBMYO, E Block TBMYO, F Block HAYEF, H Block School of Foreign Languages, and D Block TBMYO Annex Building are within the major impact area resulting from seismic strengthening and energy efficiency works (Figures 4, 5, 6, 7). Noise, dust, vibration, the spread of excavation waste outside the construction site, and potential issues in waste management may negatively affect the building users. Detailed information and mitigation measures will be provided in Section 5. Additionally, the İstanbul University Cerrahpaşa Rectorate Büyükçekmece Campus authorities will be informed at least 7 days before each phase of the construction process. The construction schedule will be continuously updated and displayed at the construction site in a place visible to stakeholders throughout the project. • İstanbul University Cerrahpaşa Rectorate Büyükçekmece Campus is located 36 km from the city center and 37 km from Istanbul Airport. There is no hospital in the immediate vicinity. The nearest hospital, Büyükçekmece Mimar Sinan State Hospital, is 24 km away from the campus.

TRAFFIC ACTION PLAN	Given the scope of the activity and its surroundings, it is not anticipated that any issues will arise during the transportation of materials needed for the construction activities. Access routes and rules are specified in the Traffic Action Plan. The Traffic Action Plan is included in the Occupational Health and Safety Plan prepared by the Consultant. Additionally, the Community Health and Safety and Traffic Management Plan will be prepared by the contractor before the construction works begin. The map showing the traffic routes for the seven faculties and the traffic management plans are provided below 
INFRASTRUCTURE USED BY THE PROJECT, SUCH AS SEWER SYSTEM, ELECTRICITY, WATER NETWORK, ETC.	During the construction works, existing sewer, electricity, and water networks in the area will be used with the approval of the Beneficiary Institution. After receiving the approval from the beneficiary institution, the contractor will perform meter readings and pay for the usage fees. Household waste will be disposed of using municipal services, while other waste will be temporarily stored in designated areas, and disposal will be carried out by licensed companies. In the event that any infrastructure services are required for the project (e.g., overflow due to blockage in sewer lines (vacuum truck services), long-term power outages (mobile generators), long-term water outages (water tankers for dust control, etc.), existing infrastructure capabilities will be evaluated and executed in accordance with the relevant regulations.

NATIONAL LEGISLATION AND PERMITS APPLICABLE TO THE PROJECT ACTIVITIES (E.G., SOLAR POWER PLANT INSTALLATION, ETC.)	Existing building permits will be used for the application of the license-free electricity generation for the Solar Power Plant (SPP) installation.
	Documents required for license-free electricity generation include, but are not limited to, the following:
	▪ Documents required for the Authorized Electricity Distribution Company - Request Letter:
	  ▪ License-free production connection application form,
	  ▪ Fixed non-portable subscriber number,
	  ▪ Receipt confirming that the application fee has been deposited into the relevant grid operator's account,
	  ▪ Single Line Diagram showing the technical specifications of the facility to be installed,
	  ▪ SPP Technical Evaluation Form prepared by the Renewable Energy General Directorate, personnel program,
	  ▪ Approved coordinate application sketch,
	  ▪ Title deed for roof type application
	▪ Approval of SPP Static Projects,
	▪ "Connection Opinion" and "Invitation Letter for Connection Agreement" from the relevant distribution company,
	▪ System Basic Information Form,
	▪ Technical project and calculations,
	▪ Technical project and calculations, District Municipality - SPP Compatibility Letter (according to the Zoning Regulation legislation), under the "License-Free Electricity Generation Regulation in the Electricity Market", the application for photovoltaic panel installation will be made to the authorized energy distribution company via the internet by the Consultant.

STAKEHOLDER ENGAGEMENT PROCESS	
STAKEHOLDER ENGAGEMENT PROCESS	Before the implementation of the approved projects, a stakeholder engagement meeting will be organized with the participation of all stakeholders to ensure the transfer of technical, social, and environmental details of the project. During the meeting, experts will provide information on the project's details, answer participants' questions, and collect their feedback. This meeting was held face-to-face and online at the Istanbul University-Cerrahpaşa Rectorate Büyükçekmece Campus Conference Hall with the participation of a total of 126 (116 in person (57 women and 59 men), 10 online (5 women and 5 men)) stakeholders. During the meeting, the participants were informed by the relevant experts about the technical, social and environmental details of the project, and all questions of the participants about the Sub-Project were answered and their opinions were taken. Prior to the information meeting, this ESMP has been published on the project's website (https://kamuguclendirme.csb.gov.tr/) for 13 days, allowing stakeholders access. The ESMP will remain accessible to all stakeholders throughout the project's lifespan, both on project's website (https://kamuguclendirme.csb.gov.tr/) and at the construction site. In addition, a hard copy of this ESMP have been made available to stakeholders at the entrance of Blocks A, B, D, E, F, H, R, KLMN and the Mosque for at least 13 days starting from 14.05.2025. Details regarding the grievance mechanism and stakeholder Engagement meeting established specifically for the project are detailed in Section
ISSUES AND CONCERNS RAISED BY BUILDING USERS	As of the date of preparation of this report, the feedback and complaints received regarding the project, either verbally/in writing or through the Project Complaint Mechanism, are shared with the Administration on a weekly basis. The issues and concerns expressed by students and other building users regarding these studies were brought up during the stakeholder Engagement meeting held on May 27, 2025 regarding the ESMP and are recorded with the stakeholder Engagement meeting minutes and the views/suggestions and concerns of the stakeholders are included in this document (See: Section 4).
GRIEVANCE BOXES LOCATION	A BLOCK FORENSIC MEDICINE INSTITUTE AND FACULTY OF VETERINARY MEDICINE: 1 unit B BLOCK HASAN ALİ YÜCEL FACULTY OF EDUCATION (HAYEF) AND VOCATIONAL SCHOOL OF TECHNICAL SCIENCES (TBMYO): 1 unit D BLOCK VOCATIONAL SCHOOL OF TECHNICAL SCIENCES (TBMYO) ANNEX BUILDING: 1 unit F BLOCK HASAN ALİ YÜCEL FACULTY OF EDUCATION (HAYEF): 1 unit E BLOCK VOCATIONAL SCHOOL OF TECHNICAL SCIENCES (TBMYO): 1 unit H BLOCK SCHOOL OF FOREIGN LANGUAGES: 1 unit R BLOCK LABORATORY AND HEALTH SERVICES: 1 unit Not included in the scope: KLMN Blocks: 1 unit A total of 8 Grievance Boxes have been placed. 

A Block

B Block

D Block

E Block

F Block

H Block

R Block

	 KLMN Block;
INSTITUTIONAL CAPACITY BUILDING	
TRAINING	As part of the project, it is expected that the contractor's institutional capacity will improve as a result of the training provided by the Consultant to the contractor's personnel. The Consultant will monitor the contractor's expected and actual performance through these training sessions. The trainings are listed below: • Environmental and Social Impacts • Waste Management • Efficient Use of Resources • Response to Environmental Emergencies • Energy Efficiency • Stakeholder Engagement/Information Activities • Grievance Mechanism (GM) • Gender Equality / Gender-Based Violence / Sexual Exploitation / Sexual Assault / Sexual Harassment • Code of Conduct • Protection of Cultural Heritage • OHS Plan Implementation and Monitoring Training • Lockout and Tagout Training • Work Permit System Training

4. Stakeholder Engagement and Grievance Mechanisms (GM)

A stakeholder is any person, institution, or group that may be directly or indirectly, positively or negatively affected by the activities carried out and the results generated during the life cycle of a project, or that may have an interest or role in the project in any form. Identifying relevant stakeholders is crucial to ensuring a meaningful engagement process, and these stakeholders may be updated throughout the implementation period starting from the beginning of the project.

Stakeholder engagement is an inclusive and dynamic process carried out throughout the life of the project, which ensures that the views of stakeholders are considered and that corrective measures are taken to address any potential adverse impacts. In the stakeholder engagement process, communicating project activities to stakeholders and maintaining continuous interaction with them are prioritized. Stakeholder engagement supports the development of strong, constructive, responsive, and interactive working relationships, which are critical for the successful management of environmental and social impacts and risks.

This ESMP has been prepared in alignment with the Stakeholder Engagement Framework (SEF) of the SREEPB Project, which defines the general characteristics of all stakeholders. Beginning prior to site construction activities at the İstanbul University-Cerrahpaşa Büyükçekmece Campus and continuing throughout the entire sub-project period, parties with the potential to be affected will be informed about the scope of the project, contact information, and the Grievance Mechanism (GM) through stakeholder engagement meetings, informational materials (notices and brochures), the SREEPB website, and social media. Through these methods, early, frequent, and transparent communication will be ensured throughout the project duration, helping to prevent and manage risks, possible disputes, and delays. This will enable timely understanding of stakeholder expectations and maximize the potential contributions to the project.

Following the approval of this ESMP, a Stakeholder Engagement Meeting has been held at İstanbul University-Cerrahpaşa Büyükçekmece Campus, where construction activities of the sub-project will take place, with the participation of the consultant firm, the management and technical units of the beneficiary institution, building users, and the PIU's environmental specialists, social specialists, OHS specialists, structural experts, civil engineers, and other relevant personnel on 27 May 2025. At the stakeholder engagement meeting, prior to the implementation of the approved sub-project, technical, social, and environmental details has been presented by the relevant experts, stakeholders' questions regarding the project has been answered, and their opinions has been collected. A total of 126 people attended the meeting, 116 of whom were in person (57 women and 59 men) and 10 of whom were online (five women and five men). Details regarding the Stakeholder Engagement Meeting are provided in ANNEX 6. The ESMP specific to this sub-project was disclosed on May 14, 2025 and remained posted until the Stakeholder Engagement Meeting was held on May 27, 2025. It will be disclosed on the SREEPBProject website (https://kamuguclendirme.csb.gov.tr/) throughout the project life in order to inform all stakeholders about how the sub-project process will be carried out on the field and to receive their objections and suggestions, if any, and it was posted at the construction site in the Istanbul University Cerrahpaşa Rectorate Büyükçekmece Campus within the scope of the sub-project. It will remain posted with the grievances boxes throughout the project life.

4.1 Grievance Mechanism (GM)

Grievance Mechanism (GM) aims to provide affected or interested parties with access to an effective procedure. Grievances may indicate stakeholder concerns, and if not identified and resolved, they may escalate. Identifying and responding to grievances supports the development of positive relationships among project personnel, local communities, and other stakeholders.

Before the implementation of the SREEPB Project, the Ministry of Environment, Urbanization and Climate Change PIU developed a transparent and comprehensive GM specifically for the SREEPB Project to receive, evaluate, and resolve grievances/opinions/suggestions that may arise during activities to be carried out in public buildings. The GM will assist all relevant stakeholders in conveying their grievances/opinions/suggestions regarding the planned activities to the appropriate persons and institutions, and it will strengthen stakeholders' engagement in the project.

This mechanism also enables all personnel involved in the project (PIU, Consultant, Contractor) to submit their grievances/opinions/suggestions—either anonymously or under their name—to the Ministry and the World Bank. The duties and responsibilities of the Contractor, Consultant, and PIU are detailed in the Project's Stakeholder Engagement Framework (https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894_paydas-katilim-cercevesi-mayis-final_20210521122305.pdf)

Additionally, all parties involved in the project are required to implement the Project's Environmental and Social Management Plan, Stakeholder Engagement Framework, and Labor Management Procedure.

Under the SREEPB Project, grievances will be addressed at multiple levels:

a) Contractor Level: The Project Manager and Social Specialist of each contractor assigned to carry out the construction works shall be responsible for receiving, recording, and, if possible, resolving grievances/concerns/opinions/suggestions raised by any stakeholder (such as public building administration, building users, visitors, local communities, or beneficiaries, project personnel, etc.) through the Grievance and Suggestion Form and the Grievance Closure Form provided in Annexes 4 and 5, and in accordance with the Grievance Mechanism Procedure.

Verbal grievances, opinions, and suggestions shall be recorded by the responsible personnel of the Contractor (Social Specialist and Project Manager) by filling out the Grievance and Suggestion Form.

The Contractor shall ensure that all personnel working on the Project are aware that they can use the Grievance Mechanism (GM), and shall guarantee that any grievances raised by staff will not constitute an obstacle to the future renewal of their employment contract.

All steps related to the submission of employee grievances/opinions/suggestions are described in detail under the section "Grievance Mechanism for Workers" of the SREEPB Project Labor Management Procedures. All employees may use this mechanism either under their name or anonymously.

If the Contractor is unable to resolve grievances/concerns/opinions/suggestions related to construction activities under the SREEPB Project, they shall be obliged to refer such

submissions to the relevant persons/institutions in accordance with the Project's Grievance Mechanism Procedure.

Contractors shall also report the records they keep—including resolved and unresolved grievances/concerns/opinions/suggestions—on a weekly basis to the Consultant. The Contractor shall be responsible for resolving grievances within 15 calendar days at the latest and shall inform the Consultant's Social Specialist throughout the process.

b) Consultant Level: Grievances/concerns/opinions/suggestions that cannot be addressed at the contractor level shall be handled by the Social Specialist of the Construction Supervision Consultant Firm. The Project Manager and the Social Specialist, in accordance with the Grievance Mechanism Procedure, shall prepare a situation report to remind the contractor of their responsibilities and ensure that necessary measures are taken to resolve the issue and implement the required corrective actions.

The Consultant shall guarantee that all personnel working on the Project are entitled to use the GM and that any grievances submitted by staff will not pose a risk to the future renewal of their employment contracts. If the Project Manager is unable to resolve grievances/concerns/suggestions, they shall be obliged to refer them to the Ministry of Environment, Urbanization and Climate Change.

The Consultant Firm is responsible for resolving grievances within 15 calendar days at the latest, recording grievances in the grievance log, and closing/resolving the grievance through the Grievance Closure Form. Regardless of whether the grievance falls within the scope of the Project, the Consultant is obliged to carry out all relevant official correspondence and inform the Employer.

The Consultant shall submit both the grievances/concerns/suggestions received directly and those reported by the contractor to the Ministry of Environment, Urbanization and Climate Change on a weekly basis in the form of reports/grievance logs.

c) Provincial Directorates of MoEUCC Level: Regarding activities carried out under the SREEPB Project, the relevant Provincial Directorate of the Ministry of Environment, Urbanization and Climate Change (MoEUCC) shall be responsible, to the extent possible, for addressing grievances/concerns/opinions/suggestions received. Regardless of whether the Directorate resolves the issues, it shall promptly forward all grievances/concerns/opinions/suggestions it receives to the Employer.

d) MoEUCC Project Implementation Unit (PIU) Level: Within the scope of the SREEPB Project, MoEUCC shall be responsible for collecting, recording, and resolving all grievances/concerns/opinions/suggestions raised by stakeholders through the levels mentioned above. MoEUCC shall resolve the collected grievance/concern/opinion/suggestion within 15 calendar days and inform the submitter of the outcome. However, for grievances requiring detailed examination, this period may be extended to 30 calendar days. MoEUCC is also responsible for submitting grievance records to the World Bank in the 6-monthly progress reports. Additionally, the Ministry is required to report cases of gender-based violence/harassment and occupational accidents to the World Bank within 48 hours.

For grievances related to gender-based violence and sexual exploitation and abuse, it is recommended to use the web-based grievance system provided in Annex III, which allows anonymous submissions. To ensure confidentiality, access to this web-based grievance system

shall be restricted to authorized personnel only.

In addition to the Grievance Mechanisms defined at various levels above, stakeholders may also use the national grievance mechanism channels throughout the project duration.

The channels for submitting grievances and suggestions to the Employer, primarily the Presidential Communication Center of the Republic of Türkiye (CİMER), are provided below. T.C. Cumhurbaşkanlığı İletişim Merkezi (CİMER) gibi ulusal şikâyet mekanizması başta olmak üzere, şikâyet ve önerileri İdare'ye iletme kanalları aşağıda verilmiştir.

Table 3 GM Communication Channels

Call Center	: ALO 181
Tel	0312 586 4858
E-mail	: yigmkadev@csb.gov.tr
Grievance	: https://kadevoneri.csb.gov.tr/oneri.jsp
	Suggestion and grievances boxes installed in the buildings

For grievances related to gender-based violence (GBV) and sexual exploitation and abuse (SEA), the use of a web-based grievance system that allows anonymous submissions is recommended. To ensure confidentiality, access to the web-based grievance system shall be granted only to authorized personnel.

In addition to the grievance mechanisms defined above at various levels, stakeholders may also use the national grievance mechanism channels, the details of which are provided below, throughout the duration of the Project. The national grievance mechanisms are listed below:

Table 4 CİMER Communication Channels

Webite	: https://www.cimer.gov.tr
	https://giris.turkiye.gov.tr
Helpline	: Alo 150
Mail adress	: T.C. Cumhurbaşkanlığı Külliyesi 06560 Beştepe - Ankara
Tel	0312 590 20 00
Fax	0312 473 64 94

Table 5 YİMER Communication Channels

Web site	: https://yimer.gov.tr
Helpline	: Alo 157
Mail adress	: Çamlıca Mahallesi 122. Sokak No: 4 Yenimahalle/ANKARA
Tel	0312 157 11 22
Fax	0312 920 06 09

These communication channels are promoted through wall posters (placed on walls where suggestion & grievance boxes are located) in all buildings and through distributed project brochures. Additionally, all project personnel are responsible for informing stakeholders around them about the suggestion and grievance mechanisms. All workers will be informed about this

subject prior to the commencement of their work.

Details on this topic are explained in the Stakeholder Engagement Framework (SEF) (https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/sreepb-p175894_paydas-katilim-cercevesi-mayis-final_20210521122305.pdf)

Records regarding grievances/opinions/suggestions will be regularly shared by MoEUCC with the World Bank (WB). Additionally, any person or community who believes they have been adversely affected by projects supported by the WB may submit grievances through the existing project-level Grievance Mechanism (GM) to MoEUCC, or directly to the WB via the Independent Inspection Panel

(https://www.worldbank.org/en/projects-operations/products-and-services/grievance-redress-service)

Stakeholders affected by the project may also submit grievances to the WB Independent Inspection Panel. This panel determines whether the complainants have suffered or may suffer harm as a result of the WB's failure to comply with one or more of its performance standards. The panel may convey its concerns regarding grievances it receives directly to the WB. At this stage, the WB is given the opportunity to respond to the grievances.

For information on how to submit grievances to the WB Inspection Panel, please visit:www.inspectionpanel.org

4.2 Grievance Mechanism for Workers

The grievance mechanism for workers shall include:

(i) a procedure describing the flow of the grievance mechanism;
(ii) timeframes for responding to and resolving grievance cases;
(iii) a register to record and track the resolution process in a timely manner;
(iv) contact person responsible for collecting, recording, addressing, and tracking the resolution process of grievances.

The Consultant shall monitor the recording and resolution of grievances by contractors and report them to the PIU in the monthly progress reports. The process shall be overseen by the Social Specialist of the PIU.

This mechanism shall be based on the following principles:

- The process shall be transparent and allow employees to express their concerns and submit grievances.
- No discrimination shall be made against those who submit grievances, and all grievances shall be handled in accordance with the principle of confidentiality.
- Anonymous grievances shall be treated equally to other grievances with known origins.
- Management shall take grievances seriously and respond with timely and appropriate actions.

Information on the existence of the grievance mechanism shall be communicated to all project workers (direct hires, contracted staff) through notice boards, suggestion/grievance boxes placed in appropriate locations, call centers, announcements during trainings, seminars, meetings, a link on the homepage of the project website, printed project materials distributed to social service personnel, social media, and other communication channels deemed necessary.

The project grievance mechanism shall not prevent project workers from exercising their legal

rights under other judicial or administrative channels.

5. Environmental and Social Risks & Impacts and Mitigation Measures

The structural retrofitting and energy efficiency-focused renovation works to be carried out at the R Block Laboratory and Health Services, A Block Forensic Medicine Institute and Faculty of Veterinary Medicine, B Block HAYEF and TBMYO, E Block TBMYO, F Block HAYEF, H Block School of Foreign Languages, and D Block TBMYO Annex Building located within the İstanbul University-Cerrahpaşa Rectorate Büyükçekmece Campus are expected to generate both direct and indirect positive social and environmental impacts.

Direct positive social impacts include the construction of earthquake-resistant buildings to benefit building users, prevent loss of life and property, and enable the campus area to provide emergency services on the European side of Istanbul in the event of a possible earthquake, which is of great importance. Additionally, the project is expected to yield positive effects in terms of energy savings and the reduction of air pollutants.

The physical works to be implemented under the project are not expected to cause irreversible negative environmental impacts; the anticipated impacts are temporary, reversible, and moderate in scale and nature. The subproject site is not located in an environmentally sensitive area. Furthermore, these physical activities are not expected to cause serious adverse effects on human health or the environment.

Given that the campus is located away from urban residential areas, there are no significant public health and safety risks expected due to construction traffic and construction activities (including overlapping construction/demolition activities by different parties and the simultaneous operation of facilities).

Other potential adverse social impacts identified, apart from community health and safety risks, are limited and can be managed through the mitigation measures outlined in this ESMP. Additionally, there are no risks such as temporary income loss for commercial enterprises.

The adverse environmental and social impacts that may arise as a result of structural retrofitting and energy-efficiency-focused renovation works can be eliminated or minimized through appropriate mitigation measures, which are summarized in the table below.

Table 6 List of Environmental & Social Impacts and Mitigation Measures

IMPLEMENTATION/CONSTRUCTION PHASE	RISK & IMPACTS	MITIGATION MEASURES	RESPONSIBLE PARTIES
Renovation and strengthening works for improving seismic resistance and energy efficiency in public buildings	**a)** OHS Possible adverse safety and health impacts on workers, local population, and staff due to the following: Potential injuries to workers arising from working at heights, working with hazardous materials, and electrical tools; Non-compliance with national and defined international occupational health and safety requirements at the workplace;	• Local construction and environmental inspection authorities and communities shall be informed about the activities to be carried out. • The public shall be informed through stakeholder engagement, and appropriate notifications in the media and/or public spaces. • All legally required permits for construction and/or renovation shall be obtained. • The Project Implementation Unit (PIU) and the Consultant shall conduct regular site supervision to ensure and monitor that all construction activities are carried out in compliance with national laws and regulations—including the regulation on fire safety of buildings—and the requirements of World Bank standards. • Detailed information regarding occupational health and safety is provided as guidance in the Occupational Health and Safety Plan prepared for the same campus.	PIU Consultant
		• In areas where the underground natural gas pipeline passes, the Natural Gas Provider Company shall be responsible for the necessary works before the commencement of Phase II (Construction Phase) of the projects. All operations related to the Natural Gas Pipeline shall be carried out by the Service Provider Local Distribution Company, with all inspections and tests completed and the environment fully prepared prior to Site Handover, and shall be delivered as specified in the project documents. The Property Owner is required to submit an application in accordance with the relevant legislation for all operations related to the said natural gas pipeline. Therefore, neither the Consultant Firm nor the Contractor shall in any way intervene in the natural gas pipelines. • In the event of a major incident, such as a workplace accident, the Contractor shall immediately inform MoEUCC. MoEUCC shall report all significant incidents (such as accidents, leaks, fatalities) to the World Bank within 48 hours and submit an incident investigation report along with a corrective action plan to the World Bank within 30 working days. • The PIU and the Consultant shall conduct regular site supervision to ensure and monitor that all construction activities are carried out in compliance with national laws and regulations and the requirements of World Bank standards. • Health and safety measures and environmental precautions related to the reconstruction of the public building shall be detailed in the project-specific Waste Management Plan and Occupational Health and Safety (OHS) Management Plan.	Consultant PIU Contractor

		• The Occupational Health and Safety Plan has been prepared by the Consultant for R Block Laboratory and Health Services, A Block Forensic Medicine Institute and Faculty of Veterinary Medicine, B Block HAYEF and TBMYO, E Block TBMYO, F Block HAYEF, H Block School of Foreign Languages, D Block TBMYO Annex Building at the İstanbul University Cerrahpaşa Rectorate Büyükçekmece Campus. Activities on site shall be carried out in accordance with the measures specified in this OHS Plan. • The Contractor shall prepare its own OHS Plan for the works to be carried out, taking into account the Occupational Health and Safety (OHS) Plan prepared by the Consultant. • Prior to the commencement of construction works, a Risk Assessment study shall be conducted for all tasks to be undertaken. Relevant procedures and plans—such as risk assessment, safety procedures, training, monitoring, incident investigation and reporting, and Emergency Plans—shall be included in the Health and Safety Plans (The Health and Safety Plans shall be prepared by the Supervision Consultants and further developed by Contractors by adding site-specific risk assessments, procedures, and instructions), as presented in Annex-8 of the ESMP. • Appropriate signage shall be placed at the construction sites, and workers shall be informed about the basic rules and regulations they must follow. • Occupational Health and Safety (OHS) trainings shall be provided to employees to identify potential risks related to the worksite and tasks to be performed, and weekly and monthly on-site safety meetings shall be held. • The Contractor shall formally acknowledge that all works will be carried out in a safe and disciplined manner designed to minimize the impact on local residents and the environment. • The Contractor shall assign a staff/responsible person/expert with relevant certification and experience responsible for occupational health and safety. • The Contractor shall provide a safe working environment for workers and shall supply personal protective equipment (PPE)—such as hard hats at all times, and masks, safety goggles, safety harnesses, and safety boots when necessary—prior to the commencement of construction activities, in accordance with international best practices and Turkish legislation. • Appropriate rest areas for employees during work breaks shall be provided by the Contractor in consultation with and with permission from the building management (based on the number of workers and rest hours). • Dining areas for workers shall be established in areas designated by the building technical units under the written permission and approval of the campus administration. • Changing areas (with lockable facilities) for workers shall be provided within the buildings with the written permission and approval of the campus administration. These areas shall be designated	

		by the building technical staff, and the use of areas outside of those designated is strictly prohibited. The Contractor shall inform workers not to keep valuables in these areas and that the building management bears no responsibility for theft or other negative incidents that may occur in these areas. This matter shall also be posted with warning signs. • Sanitary needs of workers shall be met using building infrastructure under the written permission and approval of the campus administration. In case existing infrastructure cannot be used, WC containers shall be provided by the Contractor for worker use, and these containers shall include all necessary materials to ensure hygiene. However: • Workers shall only use the toilets that are permitted/allocated to them within the building. The Contractor shall inform its workers of these permitted/allocated toilets based on the number of employees. Monitoring and enforcement of this restriction shall be the responsibility of the Contractor. • The Contractor shall instruct its workers to use the designated toilets in accordance with hygiene rules, and if improper use is identified, cleaning responsibility shall rest with the Contractor. • All hygiene materials required by workers shall be provided by the Contractor. • The Contractor shall provide work clothing bearing the project name so that workers can be easily identified. • Workers are strictly prohibited from engaging in arguments with building technical personnel or campus users for any reason. In the event of individual or activity-related problems, workers shall immediately inform their supervisor (The responsible supervisor and contact information shall be communicated to all workers by the Contractor). The Contractor shall record such incidents and report them to the Consultant. Any decision/action related to this process shall be carried out with the knowledge and approval of the building management. • In the case of night work, approval shall be obtained from the building management. All activities shall be carried out in accordance with both the Occupational Health and Safety Law (Official Gazette dated 30 June 2012, No. 28339) and its related regulations, as well as the World Bank Group (WBG) Environmental, Health, and Safety (EHS) Guidelines. • In the event of any epidemic or pandemic/infectious disease, all guidance, manuals, and recommendations issued by the Ministry of Health, Ministry of Labor and Social Security, and the World Health Organization shall be followed, and all relevant measures for occupational health and safety shall be taken for both workers and workplaces. • Unauthorized third parties shall not be allowed to enter the construction site. • The names of all personnel who will work on the construction site, along with their necessary training certificates, shall be submitted to the Consultant as a list. Only workers who have received	

		appropriate training and are equipped with personal protective equipment shall be allowed to enter the construction site, wearing ID badges. • Persons under the age of 18 shall not be permitted to enter the construction site. • The Contractor shall designate smoking areas within the construction site. Smoking outside these designated areas is strictly prohibited. • Food and beverage, break/rest, toilet, and hand-washing needs shall be provided in areas indicated by the technical units inside the building where the work is being carried out. This matter shall be handled with the knowledge of the campus administration. Workers involved in the project shall not go beyond the allocated areas. • All hygiene materials required for the use of workers shall be provided by the Contractor. The local sewer infrastructure shall be used for wastewater disposal. • Packaged drinking water (e.g., plastic or glass bottles) shall be provided to the workers. • Clean utility water shall be supplied through the existing plumbing systems of the building. Consumption of this water shall be prohibited. • The Contractor shall provide a healthy and safe working environment for workers, supply personal protective equipment (PPE) in accordance with Turkish legislation and international best practices—including the pandemic-related health and safety measures provided by the Ministry of Health and the Ministry of Labor and Social Security—and shall ensure their proper use and monitor compliance. (This includes the constant use of hard hats, and the use of respiratory protection, protective goggles, full-body safety harnesses, and foot protection where necessary.) • Personal protective equipment (PPE) and work uniforms shall be stored separately from workers' personal clothing, and enclosed changing areas shall be established inside the building for this purpose. • In the event of work accidents resulting in lost time, a root cause analysis shall be conducted and reported. • Workers who will work at height (e.g., façade insulation, roof insulation) shall receive both theoretical and practical training on working at height. The occupational physician shall indicate in the medical report that the worker is fit to work at height. A work-at-height plan shall be prepared before starting the activity, and a work permit shall be obtained. Work at height shall be carried out under the supervision of a qualified person and an occupational safety specialist. Fall protection systems and work-at-height equipment shall be selected in accordance with relevant legislation, and their inspection, maintenance, and repairs shall be performed by specially trained personnel. • All construction machinery and equipment to be used shall undergo the required periodic inspections and/or maintenance; compliance with standards and CE certificates shall be checked;	

		relevant records shall be kept; otherwise, such equipment shall not be allowed into the work area. Workers assigned to use such equipment shall be provided with job-specific training. • Maintenance forms for all work equipment to be used on site shall be provided, regular maintenance and repairs shall be carried out, and responsible personnel for maintenance and repair works shall be designated. • Risk analyses shall be updated when new equipment is introduced or innovations are made in the execution of work, and all changes shall be accompanied by updated information/training. • All lifting equipment, pressure vessels, and boilers to enter the site shall be approved for entry after periodic inspections have been verified (by the Consultant). • All machinery, equipment (including scaffolding), and hand tools to be brought into the site shall be checked for compliance with TSE standards and CE certification, and entry approval shall be granted by the Consultant. • Planning of procurement, delivery processes, and storage areas for materials shall be ensured. • The Contractor shall assign at least one (1) employee with First Aid Certification for every ten (10) workers working in the same building, and at least one (1) certified first aider even if the number of workers is below ten (10). Each team working in separate buildings shall be evaluated individually. • A procedure for working with hazardous chemicals shall be prepared, and designated storage areas for materials shall be established. Chemical substances shall be accepted on site only after checking their safety data sheets (SDS). • Workers without vocational qualification certificates shall not be employed. • All workers shall begin work only after completing basic OHS training and induction training. Trainings shall be updated where required by legislation. • Indoor and outdoor renovation areas shall be marked off with warning/tape barriers. Sufficient warning signs shall be installed to restrict access to these areas. • Visitors shall not be allowed to approach work areas. However, when necessary for monitoring purposes, building technical staff may enter such areas under supervision of authorized personnel, provided that proper safety measures are taken and the required PPE is used within the scope of their expertise. Training materials shall be prepared for such visitors, and they shall be trained before entering the site. • A construction method statement and risk assessment shall be prepared for each activity to be carried out on site. • A work permit system shall be established for high-risk works such as night work, working at	

		height, excavation, welding, etc. • A lockout-tagout (LOTO) system shall be established for maintenance and repair works, and operations on live energy lines such as high-voltage tasks. Special training shall be provided to workers regarding this system. • A disciplinary enforcement system regarding OHS nonconformities on site shall be established, and all workers shall be trained on this matter. • Construction activities shall primarily be carried out during daytime. However, if night work is performed, all work areas, passageways, and hazardous zones shall be properly illuminated. • Procedures covering emergency situations that may occur during construction activities (e.g., fire, earthquake, chemical spill, etc.)—and addressing public and environmental health—shall be prepared and shared with all workers. • In the event of short- or long-term electricity, water, or natural gas interruptions due to construction activities, necessary safety measures shall be taken, and building users shall be informed a reasonable time in advance. • All documents and records required under OHS legislation—such as health screenings of workers, onboarding documents (personnel files), training materials, PPE delivery receipts, and approved site logs—shall be kept on site. These documents shall be ready for presentation during Consultant and Ministry inspections. • An organizational chart shall be prepared under the OHS heading, specifying duties, authorities, responsibilities, and contact information. • If modifications are made to public building entrances during construction works, accessible structures for disabled users shall be provided. • The OHS Plan to be prepared shall also address community health and safety, and shall designate a person and position responsible for communication with building users and the local population. • Records of all activities and incidents (meetings, inspections, supervision, training, accidents, fires, etc.) occurring throughout the construction phases shall be maintained. • In accordance with the SREEPB Project's Labor Management Procedures, and covering both the Contractor and all subcontractors: • The Contractor and all subcontractors shall prepare a written and signed social policy/commitment letter stating that they will not engage in forced or compulsory labor, will not employ child labor or uninsured workers, and will not allow any discrimination (based on age, gender, religion, language, race, etc.), coercion, mistreatment, bullying, insults, or humiliation among their workers. The document shall also emphasize that all contractor personnel must adhere to these principles in	

		their relationships and communication with one another. • The Contractor shall take preventive measures to avoid the spread of communicable diseases (including sexually transmitted infections such as HIV) and non-communicable diseases arising from the execution of construction works, and shall act with awareness of the fact that vulnerable and marginalized community groups may face different levels of risk. The Contractor shall implement measures to prevent and mitigate the spread of communicable diseases that may result from temporary or permanent labor mobility related to the contract.	
	b) OHS Possible adverse health impacts on workers, facility users, children, and the general public as a result of asbestos fiber and dust emissions during debris transport and final disposal	• The project site shall be illuminated throughout the night. • No waste shall be discarded in the surrounding area, and this area shall be kept clean. Waste must be collected from and removed out of the construction site. • Any broken glass that occurs during the process shall be cleaned up immediately. • Work areas shall be separated from the demolition and occupied sections of the building using physical barriers. • All procedures related to asbestos shall be implemented in accordance with Annex-8 of the Environmental and Social Management Framework document. Activities shall be conducted in compliance with Annex 8, the Regulation on Health and Safety Measures in Working with Asbestos, and relevant legislative requirements. • The building's cleaning schedule shall be expanded to address the excess dust and dirt generated by the demolition work. • Hazardous materials shall be handled—during storage, transport, and distribution—in accordance with safety guidelines to minimize the risk of misuse, leakage, and accidental human exposure. • Old windows and doors shall be temporarily stored in a secure area designed to prevent unauthorized access. • Regular maintenance shall be carried out on vehicles to minimize the risk of serious accidents due to equipment failure or early malfunction. • Both training sessions and incidents (such as fatalities, lost-time injuries, leaks, fires, and other significant events) shall be recorded. • In the event of a major incident, the Contractor shall immediately notify the MoEUCC. The MoEUCC shall report any significant incident (such as accidents, leaks, fatalities) to the World Bank within 2 days (48 hours), and submit an incident investigation report along with a corrective action plan to the World Bank within 30 working days.	Contractor

	c) Safety	• From the moment construction/implementation activities commence, the Contractor shall be responsible for the safety of life and property of all staff and other individuals within the construction site. • In the event of any damage occurring during the construction works, the Contractor shall fully compensate the damages incurred by the Beneficiary Institution, the Employer, and/or third parties. • During the works, the safety regulations of the Republic of Türkiye Ministry of Labor and Social Security and the rules of the Ministry of Health shall be taken into consideration. These rules shall serve as general references during the execution of the works. • The Contractor shall assign an authorized staff member specifically responsible for safety and protection against accidents on site. This person shall be responsible not only for all workers and labor force of the Contractor but also for the Project Manager, the Employer's personnel on site, equipment, offices, and other facilities. This individual shall possess the necessary qualifications for the task, have the authority to issue instructions, and be capable of taking all necessary measures to prevent accidents. The Contractor shall establish a dedicated team specifically for this purpose. • The Contractor shall take all necessary safety precautions to protect the materials, equipment, and constructions that will remain in place and be used in the areas where production is to be carried out. • A sufficient number of guards forming a security team shall operate in coordination with municipal law enforcement, strictly complying with all rules and instructions received from them. The Contractor shall provide at least one (1) night guard for the work site. • The scrap of replaced machinery, equipment, and systems shall be delivered to the building management without damage. • The relevant machinery, equipment, and system components shall be transported by the Contractor to the location specified by the building management (inside the building and/or within the campus). Transport and delivery procedures shall be documented with a delivery protocol. From the date on which the protocol is signed by the parties, all responsibility for the scrap materials shall rest with the building management.	Contractor

Renovation and strengthening works for improving seismic resistance and energy efficiency in public buildings	***d) Waste Management*** Possible adverse environmental and health impacts may arise due to various waste streams and improper waste management (improper waste management may cause direct and indirect pollution in water and soil)	**General Information** • The PIU and the Consultant shall monitor the implementation of environmental and social impact mitigation measures, as specified in the Environmental and Social Management Plan, through site inspections. • The PIU and the Consultant shall conduct regular site inspections to ensure and monitor that all construction activities are carried out in compliance with national laws and regulations and the World Bank ESF requirements.	PUB Consultant

		• The Waste Management Plan shall be prepared by the Contractor as specified in Annex 9 of the Environmental and Social Management Framework. • Waste collection and disposal methods and locations for all types of waste expected to be generated from renovation, demolition, and construction activities shall be defined in site-specific Waste Management Plans. • Daily visual site inspections shall be carried out by the Consultant to monitor the implementation of mitigation measures. • During construction activities, all types of waste shall be collected separately at the source and transported to temporary waste storage areas selected in accordance with project and legal requirements, and identified with the knowledge of the Beneficiary within the site. (Temporary storage duration is limited to 6 months.) • Temporary storage areas shall be designated by the Contractor upon receiving permission from the Management of İstanbul University Cerrahpaşa Rectorate Büyükçekmece Campus, and these areas shall be reported to the Consultant. • If a protocol is signed between the Contractor and the Beneficiary Institution, the existing waste management system may be used. However, under the protocol, the Contractor shall be responsible for covering the costs arising from its own waste. • The Contractor shall reuse and recycle suitable and feasible materials where possible. • Documentation related to waste disposal and recycling shall be regularly recorded. A Waste Record Information Form shall be prepared for maintaining these records. • Hazardous waste shall be sent to licensed disposal facilities using the waste management application via the Integrated Environmental Information System (E-ÇBS) of the Ministry of Environment, Urbanization and Climate Change. For this purpose, the Contractor shall register in E-ÇBS. • In case tire replacement is required during construction activities, used tires shall be disposed of through businesses engaged in tire distribution and sales, and by means of licensed transportation vehicles.	Contractor

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

		Construction and Excavation Waste:: • In the event that inventoried materials belonging to the building are generated as a result of dismantling activities, a document confirming delivery of such materials to the building management shall be obtained. • The recovery of construction/demolition waste, especially its reuse as infrastructure material, shall be prioritized. Excavation waste shall be sent to the waste storage facility of the relevant municipality. An official letter from the Büyükçekmece Municipality confirming that the waste will be accepted shall be obtained and submitted to the Employer. • Until construction and excavation waste is transported to the waste storage facility, it shall be stored on site under cover, and measures shall be taken to prevent any negative impacts. **Waste Batteries and Accumulators:** • Waste batteries and accumulators shall be delivered to licensed facilities via authorized transportation companies. **Hazardous Waste:** • In the event of temporary storage of hazardous waste on the project site, the waste shall be stored in durable, leak-proof, secure containers that comply with internationally recognized standards, within the project area. The containers shall be labeled as hazardous waste and shall include the waste code, quantity, content, characteristics, storage conditions, and storage date. Hazardous substances may be temporarily stored for a maximum of 6 months. (Temporary storage areas shall be designated by the Contractor in compliance with legislation and with permission from the relevant University Administration for the project. These areas shall be reported to the Consultant.) • Regardless of the amount of waste, Liability Insurance shall be obtained for the operation of temporary storage areas for both hazardous and non-hazardous waste. • Containers storing harmful substances and waste oils shall be placed on impermeable concrete areas to prevent leakage or spills into the soil. • Paints with toxic content, solvents, or lead-based chemicals shall not be used. • Hazardous waste management shall be carried out in accordance with the Waste Management Regulation. All details shall be included in the Waste Management Plan to be prepared by the Contractor. • Hazardous chemicals and waste that may be generated at the construction site shall be sent to licensed disposal facilities using the waste management application of the Ministry of Environment, Urbanization and Climate Change via the Integrated Environmental Information System (E-ÇBS). • Absorbent pad kits/sawdust and fire extinguishers shall be kept available in the work areas. A	Contractor

		responsible person for the temporary waste storage area shall be assigned, and their name and contact information shall be posted in a visible location at the temporary waste storage area. All personnel on duty shall receive training on protection and emergency response related to hazardous chemical spills and leaks. • In the event of medium- and large-scale environmental accidents, an accident investigation shall be conducted and reported. The Waste Management Regulation shall be followed in this regard. • Used fluorescent lamps removed during renovation/construction works shall be disposed of at licensed facilities. Required documents related to the transportation and disposal of the materials shall be kept at the construction site and submitted to the MoEUCC and the World Bank upon request. **Solar Panels:** • Unused and/or end-of-life solar panels shall be temporarily stored for a maximum of 6 months in an area identified together with the beneficiary institution, in a manner that does not pose occupational health and safety or environmental risks. • After temporary storage, PV panels transported to licensed facilities via licensed vehicles shall first be recovered; those that cannot be recovered shall be disposed of in accordance with the relevant legislation. **Domestic Waste:** • Domestic waste generated shall be segregated at the source (plastic, glass, paper, etc.), and recyclable materials shall be recycled. Workers shall be trained to properly separate waste. • Non-recyclable waste shall be collected in closed sanitary waste bins and sent to regular landfill sites via Büyükçekmece Municipality's solid waste collection system. **Asbestos:** • If asbestos is present at the project site, it shall be clearly marked as a hazardous material. • If asbestos is present, it shall be securely contained to minimize exposure and ensure it is sealed properly. • In cases where asbestos removal is required, a wetting agent shall be used before removal to minimize asbestos dust. • All procedures related to asbestos are detailed in Annex 8 of the Environmental and Social Management Framework document (https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev- p175894_csyc_final100521--mayis_20210510070430.pdf). The Contractor shall act in accordance with the specified content. • If asbestos material is to be temporarily stored, the waste shall be securely kept in sealed containers	

		and appropriately labeled. Security measures shall be taken to prevent unauthorized removal from the site. • Removed asbestos shall not be reused and shall be disposed of in accordance with national regulations and sent to licensed facilities. Documents related to the transport and disposal of the material shall be kept at the construction site and submitted to the MoEUCC and the World Bank upon request.	

	e) Pollution Prevention Demolition and construction activities may cause pollution at construction sites.	• Site-Specific Pollution Prevention Plans to be prepared by the Contractor shall be reviewed by the Consultant and approved by the PIU. • Regular site inspections shall be conducted by the Consultant, and by the PIU when deemed necessary, to ensure and monitor that all construction activities are carried out in compliance with national laws and regulations and the World Bank ESF requirements.	PUB Consultant Contractor
		• Ambient air pollution caused by dust generation is addressed under section "g. Air Quality/Emission" of this Table. • Hazardous substances shall be secured in designated storage areas to prevent spills and toppling. Updated material safety data sheets (MSDS) for chemicals shall be kept in the storage areas. • Partially used chemical containers shall have lids and shall be tightly sealed when not in use. • Residual (leftover) concrete inside concrete mixers shall not be discharged onto the construction site, surrounding area, or access roads to the sites. Concrete mixer drivers shall be trained accordingly. • In the event of a hazardous substance or hazardous waste spill, containment methods shall be applied to limit the exposure area. • Spill kits shall be placed at appropriate locations on construction sites. • In case of any spill, workers responsible for responding to such incidents shall be designated and trained in emergency spill response. • Training records shall be kept at the construction sites.	Contractor
	f) Noise The presence of workers on site, renovation/construction works, and the movement of transportation vehicles will increase noise and vibration levels.	• Regular site inspections shall be conducted by the Consultant, and by the PIU when deemed necessary, to ensure and monitor that all construction activities are carried out in compliance with national laws and regulations and the World Bank ESF requirements. • Noise during demolition and construction shall be limited to the restricted time periods agreed upon in the permit. • During construction activities, generator sets, air compressors, and other operating mechanical equipment shall have their engine covers closed and be placed as far as possible from student areas and other campus buildings not included in the project. The use of rubber/plastic pads is mandatory for all such equipment to prevent excessive noise due to vibration. This requirement shall be taken into consideration when selecting equipment. • Impact noise resulting from site operations shall not exceed 100 dBC in terms of LC Max noise indicator, as specified in the Environmental Noise Control Regulation. From an occupational health and safety perspective, the World Health Organization (WHO) recommends that noise exposure levels should not exceed 70 dB over a 24-hour period and 85 dB for 1 hour to prevent hearing impairment. Additionally, the World Bank Environmental, Health and Safety Guidelines (Table 1.7.1) recommend that noise levels	Contractor

		should not exceed 55 dB during 07:00–22:00 and 45 dB during 22:00–07:00 for residential/educational and institutional areas (link). This requirement shall be taken into account during site inspections. • During the demolition process following the start of construction, noise levels shall be measured once, indoors and outdoors, by accredited laboratories. If the permitted levels defined by legislation are exceeded, necessary measures shall be identified. If the levels exceed the limits defined in legislation and the World Bank Guidelines, measurements shall be repeated weekly at regular intervals. • Based on measurement results, if necessary, the Contractor shall take additional measures such as installing noise barriers and reducing the simultaneous operation of machinery to prevent nearby settlements from being affected by noise. • Site evaluations shall be conducted in accordance with the Environmental Noise Guidelines for the European Region of the World Health Organization. • If noise levels increase during the construction phase, simultaneous operation of heavy machinery shall be prevented. • Work schedules for high-noise activities shall be planned in coordination with the occupants of nearby buildings. • To assess the impact of construction-related noise and to take necessary mitigation measures, communication shall be established with residents of the nearest settlements. • Measures such as using newer model vehicles shall be taken to minimize noise levels as much as possible. • The unnecessary use of horns and sirens by vehicles transporting machinery, equipment, materials, and personnel under the project shall be prohibited. This rule applies both inside and outside the campus. To receive and address grievances related to such matters, contact numbers shall be affixed to the vehicles.	
	g) ***Air Quality / Emission***	• Debris shall be kept in a controlled area, and water shall be sprayed to reduce dust from the debris. (Water shall be supplied from the campus infrastructure. The cost of the water used shall be covered by the Contractor. In the event of a prolonged water outage or if permission from the Employer cannot be obtained, water shall be supplied via water tanker.) • Following the start of construction, the Contractor shall perform one-time dust measurements in both indoor and outdoor areas through accredited laboratories during the demolition process. If the measurement results exceed the permissible levels defined in the legislation, additional measures shall be taken to eliminate the issue, and the measurements shall be repeated at regular intervals. Principles to prevent air quality problems caused by demolition activities shall be defined in the Construction Methods to be prepared by the Contractors and approved by the PIU. • Rehabilitation and strengthening works shall primarily take place inside the building. Dust generated	Consultant Contractor

		during pneumatic chiseling and scraping operations shall be suppressed continuously through water spraying. • Dust generated during pneumatic excavation shall be suppressed continuously through water spraying and/or, when necessary, by installing dust screen barriers on the construction site. • In the event of the generation of demolition waste, a debris chute shall be used starting from the second floor. In cases where a debris chute cannot be installed, alternative solutions shall be developed, and debris shall not be thrown from a height under any circumstances. • To minimize dust, the surrounding environment (sidewalks, roads) shall be cleared of debris. • Construction materials/waste shall not be burned in open areas on site. • Construction vehicles shall not be left idling for extended periods at the construction sites. • When materials need to be transported off-campus, truck beds shall be covered. The speed limit for such vehicles within the campus is restricted to 20 km/h. • All vehicles to be used shall have valid exhaust emission permits, and all vehicles shall be regularly maintained or monitored to ensure that maintenance is performed.	
	h) Water Quality Uncontrolled disposal of wastewater/waste generated at the construction site	• The storage or disposal of waste generated at the construction site shall be minimized. • Since the campus is approximately 5 km away from Lake Büyükçekmece, no significant adverse impact on surface waters is expected. • Construction vehicles and machinery shall only be washed in areas where surface runoff will not pollute natural surface water bodies. • In operations involving chemicals, measures such as trays, thick plastic sheeting, etc., shall be taken to prevent potential spills.	Consultant Contractor
	i) Soil Quality Contamination of soil by hazardous substances and waste	• Waste management, as mentioned in previous sections, shall be carried out in a disciplined manner. • All hazardous chemicals (including contaminated waste) shall be stored in temporary storage areas that meet containment/sealing requirements. • Before the use of any chemicals, Material Safety Data Sheets (MSDS) shall be reviewed by the OHS Specialist and Workplace Physicians, and users shall be informed. Spill pads shall be kept on site to prevent point-source pollution (e.g., spilled paint, oil leaks from vehicles), and all workers shall be subjected to spill & leak response training. These trainings shall be reinforced through drills. At least one spill response kit shall be kept for each building and for each mobile construction machine.	Consultant Contractor

	j) *Required Resources*	• Contractors shall obtain the necessary permissions from the university administration to use water from the municipal network for construction activities. The cost of the water used shall be covered by the Contractor. In case of any issues in obtaining permission, water shall be supplied to construction sites via tankers. • Concrete shall be procured from locally licensed ready-mix concrete plants. • Permission shall be obtained from the Beneficiaries for the use of electricity during construction activities. If such permission cannot be obtained, electricity shall be supplied via generators provided by the Contractor. Records of electricity (for generators), fuel, and water consumption used for construction activities shall be kept at the construction sites, and the costs shall be borne by the Contractor.	Contractor
		• Regular site inspections shall be conducted by the Consultant, and by the PIU when necessary, to ensure and monitor that all construction activities are carried out in compliance with national laws and regulations and the requirements of World Bank standards.	PIU Consultant

	k) Community Health and Safety / Traffic and Pedestrian Safety	• To ensure and monitor that all construction activities are carried out in compliance with national laws and regulations, World Bank standards, and the Occupational Health and Safety Plan prepared for the activity, regular site inspections shall be conducted by the PIU every two months and by the Consultant on a daily basis. • The PIU shall review and approve the site-specific Community Safety and Traffic Management Plan prepared in accordance with the Occupational Health and Safety Plan. • The Contractor and the Consultant shall jointly develop the Traffic Action Plan by also taking into consideration the needs of persons with disabilities. • In line with national regulations and World Bank ESF requirements, the Contractor shall ensure that the construction site is properly secured and that construction-related traffic is managed accordingly. • Signboards, warning signs, barriers, and traffic directions shall be installed; the construction site shall be clearly visible, and the public shall be warned against all possible hazards. • A traffic management system and personnel training shall be provided, especially for access to the site and areas of heavy traffic near the site. Safe crossings and walkways for pedestrians shall be ensured at points intersecting with construction traffic. • Working hours shall be adjusted in accordance with local traffic patterns; for example, major transportation activities shall be avoided during peak hours or during livestock transportation periods. • If necessary, active traffic management at the site shall be carried out by trained and visible personnel to ensure safe and comfortable passage for the public. • Construction areas shall be surrounded by health and safety signs to prevent potential accidents. • In the event of short- or long-term interruptions in electricity, water, or natural gas due to construction activities, the relevant building technical units shall be notified in advance and approval shall be requested. • Construction areas shall be physically separated with barriers to prevent unauthorized access and to ensure site security.	Consultant Contractor

		• All vehicles operating during the construction period shall comply with the designated speed limits. • The surroundings and nearby areas of the project site shall be organized with traffic signs and warning boards. The Traffic Action Plan is included in the Occupational Health and Safety Plan prepared by the Consultant. In addition, before starting the works, the Contractor shall include more detailed safety precautions in the Community Safety and Traffic Management Plan to be prepared. • Visibility of the project site shall be ensured. • Pedestrian paths and vehicle routes within the site shall be separated from each other. These routes shall be reflected in the traffic plan. • Local residents, building visitors, and users shall be informed about potential hazards and risks through warning signs and, if necessary, information meetings. • Users and other stakeholders shall be informed about the works to be carried out, including measures taken in the event of a pandemic, through appropriate media and/or printed materials and signage placed in publicly accessible areas (including construction sites). • Pedestrian paths and vehicle routes within the site shall be separated from each other. These routes shall be reflected in the traffic plan. • Activities that may affect regional traffic shall be scheduled with consideration of peak traffic hours as much as possible. All drivers involved in the project shall be informed about road safety, speed limits, traffic rules to be followed during the project, and special conditions to be observed. • The weights of vehicles to be used within the scope of the project shall not exceed the limits defined by the relevant legislation. • If hazardous chemicals or waste are stored on site, their transportation shall 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 coordination with the competent authorities. These routes shall be scheduled to avoid traffic congestion and shall be announced in advance to prevent potential disturbances. • All traffic-related arrangements shall be discussed and planned with the relevant authorities.	Consultant Contractor

Operational Phase Impacts and Risks	***a) Waste Management*** Improper waste management involving various waste streams may cause potential adverse environmental and health impacts (improper waste management may result in direct and indirect pollution of soil and the environment and may also affect air quality)	• Waste reduction at the source shall be ensured, and in this context, trainings shall be provided to employees. • Waste types shall be collected and stored separately, and their recovery/disposal shall be carried out through licensed companies in accordance with national legislative requirements. • Records shall be kept regarding the waste collected, stored, or transported.	Beneficiary
	b) OHS Risks Maintenance and repair activities for the proper functioning of the building may pose OHS risks for workers.	• Relevant OHS risks shall be mitigated through the provisions specified in national legislation. • Regular preventive measures and maintenance activities for the proper functioning of the building (regular inspection and maintenance of the roof, windows, doors, and any potential leakages) • Keeping records of the Main Design Project and related project documents to facilitate easy maintenance and replacement of any part of the building	Beneficiary
Throughout the project duration	***Stakeholder Feedback (Suggestions, Grievances, Opinions)***	• Grievances/opinions/suggestions arising from construction activities shall be collected, recorded, and submitted to the Employer by the responsible staff member of the construction Contractor at the site level, using the forms provided in Annex III and Annex IV. Grievances shall be closed using the Grievance Closure Form provided in Annex V. • The Consultant's Social Specialist shall provide training to the Contractor's site representative regarding the functioning of the Grievance and Resolution Mechanism. • Corrective actions shall be taken within 15 calendar days for grievances/opinions/suggestions collected under the project. If the resolution process exceeds 15 calendar days (maximum duration is 30 calendar days), this matter must be agreed upon between the complainant and the Contractor/PIU. At the end of the process, the applicant shall be informed that the request has been closed. • In cases of grievances related to gender-based violence, sexual exploitation, and harassment, confidentiality shall be ensured and action taken in accordance with the principle of non-retaliation. • In the event of encountering a Sexual Exploitation and Abuse (SEA) crime, legal procedures (such as reporting the incident to law enforcement authorities or referring the survivor to the relevant public institution) shall be initiated immediately, with the survivor's consent and knowledge. In such cases, the PIU Social Specialist shall be informed on the same day. • The Contractor shall carry out all activities related to the Grievance Mechanism (GM) in	PIU Consultant Contractor

		accordance with the SREEPB Project GM Procedure. • All personnel working under the SREEPB Project (PIU, Consultant Firm, Contractors) may report their grievances/opinions/suggestions to the Employer and/or the World Bank by following the procedure outlined in the Employee GM section of the Labor Management Procedures prepared for the SREEPB Project. • To ensure the collection of suggestions and grievances, the Contractor shall display the contact information provided in this report via information boards assigned both outside and inside the building (at least one per floor). The principles regarding the receipt of feedback are explained under the section titled "4. Stakeholder Engagement and Grievance Mechanisms" of this document.	

6. Environmental and Social Monitoring Plan

Table 7 Environmental and Social Monitoring Plan

What *parameter be monitored?*	**Where** *parameter be monitored?*	**How** *parameter be monitored?*	**When** *parameter be monitored (frequency)?*	**Why** *parameter be monitored?*	**Responsibility**
Renovation and Retrofitting Works Site Preparation Activities					
Community health and safety management and implemented protection measures	Around the project site	Visual inspections Site Supervision Active implementation and presence of the Community Safety and Traffic Management Plan on site	At the beginning of the renovation/strengthening works (first day) Every working day throughout the project activities	To ensure minimization of health and safety risks and mechanical injuries to local residents	• Consultant • Contractor
OHS protection measures implemented for workers at construction sites	Project site and buildings near the project site	Visual inspections Site Supervision Implementation and presence of the OHS Plan on site	Every working day throughout the project activities	Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars, and other provisions	• Consultant • Contractor
Avoiding and minimizing safety and health risks for Project-Affected People	In the building and at the project site	Visual inspections	At the beginning of and continuously every working day during the renovation/strengthening works	To prevent harm to the health of project-affected people due to inhalation of asbestos fibers and/or construction dust	• Consultant • Contractor

What *parameter be monitored?*	**Where** *parameter be monitored?*	**How** *parameter be monitored?*	**When** *parameter be monitored (frequency)?*	**Why** *parameter be monitored?*	**Responsibility**
Renovation and Retrofitting Construction Works					
OHS protection measures implemented for workers on site *(working at height, working with hazardous materials, working with rotating equipment, working with electrical devices, etc.)*	Project site Buildings near the project site	Inspection of documents related to relevant OHS certificates and trained workers Visual inspections for use of protective equipment Implementation of the OHS Plan and site-specific Health and Safety instructions Site supervision Inspection of records	Before starting demolition works Every working day throughout the project activities	To minimize occupational health and safety risks for workers Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars, and other provisions	• Consultant • Contractor
Manufacturing, Operation, and Delivery (pipeline manufacturing and construction)	Project Site	Visual Inspections, Site Control Records, Required Tests, Verification of Personnel Competency by the relevant authority	During the relevant manufacturing process in the project and upon completion of the manufacturing	To confirm that the pipeline construction is completed before handover, and to prevent a potential disaster after production and delivery to the end user	• Beneficiary Institution • Service Provider Institution OHS Department • Consultant • Contractor
Working conditions and terms of employment	Project site	Final OHS Plan inspection Site supervision Grievance mechanism (feedback)	Every working day throughout the project activities	Compliance with the Occupational Health and Safety Law, relevant regulations, communiqués, circulars, and other provisions	• Consultant • Contractor
Health and Safety records	Project site	Inspection of Health and Safety site documents	Weekly	To ensure that the required Occupational Health and Safety records are kept at construction sites	• Consultant • Contractor

What *parameter be monitored?*	**Where** *parameter be monitored?*	**How** *parameter be monitored?*	**When** *parameter be monitored (frequency)?*	**Why** *parameter be monitored?*	**Responsibility**
Air Quality	Across project sites, access roads, Project site, Buildings near the project site	Site inspections Measurement to be conducted during the demolition phase Measurements to be conducted in case of grievances	Every working day throughout the project activities Once In case of grievances	To minimize dust generation in order to prevent negative impact on local residents and the environment Regulation on Air Quality Assessment and Management	• Consultant • Contractor
Noise	Project site Buildings near the project site	Visual inspection/site supervision for the implementation of designated noise reduction measures, including declared methods used Monitoring with noise measurement device at the nearest buildings (Alkent 2000 neighborhood) Measurements to be conducted at the grievance point in case of grievances	Every working day during construction activities Once by an accredited laboratory In case of grievances	To minimize noise in order to prevent negative impact on local residents and the environment Compliance with the Environmental Noise Control Regulation	• Consultant • Contractor
Waste Management	Project site	Waste records Site supervision Visual inspection	Every working day during construction activities	To prevent pollution in order to protect construction workers, beneficiary staff, local residents, and the environment	• Consultant • Contractor
Domestic Waste	Project site	Waste records Site supervision	Daily / Throughout the project duration	Regulation on the Control of Packaging Waste Waste Management Regulation	• Contractor

What *parameter be monitored?*	**Where** *parameter be monitored?*	**How** *parameter be monitored?*	**When** *parameter be monitored (frequency)?*	**Why** *parameter be monitored?*	**Responsibility**
Hazardous Waste	Project site	Waste records Site supervision Visual inspectio	Daily / Throughout the project duration	To separate hazardous waste (adhesives, paint, insulation materials, packaging waste) from non-hazardous waste and biodegradable waste	• Consultant • Contractor
Identification, proper packaging, and labeling of asbestos-containing waste as hazardous waste	At project construction sites Before removal/dismantling works begin	Identification of asbestos-containing waste according to the waste list Site supervision Review of document records	Daily / Throughout the project duration In case of detection	Regulation on Health and Safety Measures in Working with Asbestos	• Consultant
Proper temporary storage, packaging, and labeling of removed waste	Project site	Waste records Site supervision Visual inspections	Daily / Throughout the project duration	To minimize injuries, prevent environmental pollution, and ensure proper inventory keeping Waste Management Regulation	• Consultant • Contractor
Excavation and Construction Waste	Project site	Visual inspection Transport records Site supervision	After removal of all parts of the buildings containing hazardous materials Daily / Throughout the project duration	To ensure the disposal of excavation residue and construction debris in accordance with applicable national regulations and the Project's Demolition/Dismantling methodology Regulation on the Control of Excavation Soil, Construction and Demolition Waste	• Consultant • Contractor

What *parameter be monitored?*	**Where** *parameter be monitored?*	**How** *parameter be monitored?*	**When** *parameter be monitored (frequency)?*	**Why** *parameter be monitored?*	**Responsibility**
Soil Pollution	Project sites, external storage areas, and access roads	Inspection of training records (spillage, leakage training) Inspection of chemical absorbent kits (Site, mobile construction machinery) Site supervision	Daily / Throughout the project duration	Protection of soil and groundwater quality • Regulation on the Control of Soil Pollution and Sites Contaminated by Point Sources • Regulation on the Control of Water Pollution • Regulation on the Protection of Groundwater against Pollution and Deterioration	• Consultant • Contractor
Vehicle and Pedestrian Safety	Project sites and access roads	Visual inspection Use of appropriate signs and signals Site supervision Implementation of the Community Health and Traffic Management Plan	Daily	To protect construction workers, beneficiary staff, and local residents from injuries and fatalities related to traffic accidents	• PIU • Consultant • Contractor

Grievance Mechanism	Project site Buildings near the project site	Grievance and Suggestion Forms Grievance Closure Forms Total number of grievances (pending/resolved and gender-disaggregated) Number of grievances received Number of grievances resolved Grievance Log Presence of announcement posters related to the Grievance Mechanism (GM) Physical condition of suggestion and grievance boxes Condition of the lock mechanisms of suggestion and grievance boxes	Weekly (Throughout the project duration)	• Environmental and Social Management Plan (ESMP) • Grievance Mechanism (GM) • Stakeholder Engagement Framework (SEF) To enable stakeholders directly or indirectly affected by the project to express grievances/opinions/suggestions about project activities, to contribute to the project, and to benefit from it to the maximum extent	• Consultant • Contractor • PIU

What *parameter be monitored?*	**Where** *parameter be monitored?*	**How** *parameter be monitored?*	**When** *parameter be monitored (frequency)?*	**Why** *parameter be monitored?*	**Responsibility**
Stakeholder Engagement	İstanbul University Cerrahpaşa Rectorate Büyükçekmece Campus	Number of participants in Stakeholder Engagement Meeting (gender-disaggregated) Inspection of project-related informational materials (announcement posters, web publications, etc.)	Daily	Fulfillment of the requirements of the Stakeholder Engagement Framework (and Grievance Mechanism)	• PIU • Consultant • Contractor
Renovation/Strengthening Works Operation Process					
Waste Flows	Retrofitted and energy-efficient buildings	Implementation of waste management requirements on site	Regularly (Throughout the project duration)	To ensure proper collection and disposal of waste in accordance with national legal requirements	University Administration
Health and Safety	Retrofitted and energy-efficient buildings	Regular inspection and maintenance of the parking area with installed solar energy system, roof, windows, doors, leakages (if any), etc.	Regularly (Throughout the project duration)	To ensure the health and safety of building residents/users	University Administration

7. Tasks and Responsibilities

Table 8 Task Allocation List

RESPONSIBLE PARTY	RESPONSIBILITY
MoEUCC/PUB	• Monitoring the implementation of the project and the use of funds • Employment of at least one full-time Environmental, Social, and OHS specialist • Carrying out and following up official correspondence with relevant authorities • Ensuring and supervising that the ESMPs prepared specifically for the project comply with both national regulations and WB policies • Approval of ESMPs following the relevant checks • Establishment of the Grievance Mechanism • Organizing and conducting project information meetings • Providing guidance to the consultant and contractors • Summarizing environmental and social aspects of project implementation in semi-annual progress reports and submitting them to the WB • Providing coordination and liaison for WB supervision missions in the context of evaluating environmental and social safeguard policies during project implementation • Auditing the contractor's implementation of the ESMP and documenting required performance, recommendations, and future activities as part of the general project supervision • Ensuring corrective implementation by the contractor in case of non-compliance with the ESMP and informing the WB accordingly • Supporting the consultant, if needed, in obtaining necessary permits during the project • Reporting all significant incidents (such as accidents, spills, or fatalities) to the World Bank within 48 hours and submitting an incident investigation report with a corrective action plan within 30 working days.
CONSULTANT	• Conducting a pre-site assessment before the project starts • Employment of at least one full-time Environmental, one Social, and one OHS specialist • Preparation of project-specific ESMP and Occupational Health and Safety Plan • Monitoring, evaluating, and reporting to the Administration the activities defined as contractor responsibilities in the ESMP and OHS Plan • Ensuring the operation of the Grievance Mechanism established by the Ministry • Providing feedback to MoEUCC by preparing monthly/semi-annual reports on the project and ESMP processes • Review and approval of Construction Methods prepared by the contractor • Submitting an application to the energy distribution company for photovoltaic (PV) panel installation • Providing contractor trainings (Environmental Impacts, Waste Management, Efficient Use of Resources, OHS Plan Implementation and Monitoring Training, Environmental Emergency Response, Energy Efficiency, Stakeholder Engagement Information Activities, Code of Conduct, Grievance Mechanism, Gender-Based Violence/Sexual Exploitation/Sexual Abuse/Sexual Harassment, Lockout-Tagout Train-the-Trainer (LOTO), Work Permit System Training, Protection of Cultural Heritage)
CONTRACTOR	• Employment of at least one full-time Environmental, one Social, and one OHS specialist • Implementation on-site of the ESMP and OHS Plan, as well as laws, regulations, and directives prepared by the Consultant and included in the tender documents • Proper implementation of the relevant laws and regulations stated in the tender documents • If needed, updating the ESMP, SEP, and OHS Plan in cooperation with the Consultant during their implementation on site • Preparation of an OHS Plan for the contractor's own activities, taking into account the Consultant's OHS Plan • Regular monitoring (daily, monthly, etc.) of the site activities defined in the project-specific ESMPs • Preparation of the Community Safety and Traffic Management Plan

	• Ensuring that the Grievance Mechanism established by the Ministry operates in accordance with the GRM Procedure • Reviewing the ESMP prepared by the Consultant and either committing to its implementation or preparing the Contractor's own ESMP, including relevant sub-management plans (e.g., Waste Management Plan, Pollution Prevention Plan, Community Safety and Traffic Management Plan, Occupational Health and Safety Plan, etc.) and job-specific construction/implementation methods • Preparation of the Chance Find Procedure, if deemed necessary • Preparation of ESMP progress reports for review by MoEUCC • Before the commencement of any construction work, establishment and transparent operation of the Worker Grievance Mechanism, as detailed in the Labor Management Procedures • Preparation of a project-specific Labor Management Plan, taking into account the SREEPB Project Labor Management Plan (LMP)[7]

[7] https://webdosya.csb.gov.tr/db/kamuguclendirme/menu/kadev-p175894_isgucuyonetimprosedurleri-nihai_tr_20210527081102.pdf

8. Reporting

Details regarding the reporting requirements of the project are provided in the Environmental and Social Management Framework of the SREEPB Project, which is published on the project's website (https://kamuguclendirme.csb.gov.tr), and a summary is presented in Table 9.

Table 9 Reporting Process Requirements List

RESPONSIBLE PARTY	REPORTING PROCESS REQUIREMENT
MoEUCC/PUB	• Preparation of the semi-annual Project Progress Report and submission to the World Bank (WB) • Reporting all significant incidents such as accidents, spills, or fatalities to the World Bank within 48 hours, and submission of an incident investigation report along with a corrective action plan to the World Bank within 30 working days • Monthly updates to the WB on the functioning of the Grievance 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 GM reports and submission to the Administration • Immediate notification to PIU of any significant incidents such as accidents, spills, fatalities, or sexual harassment/exploitation
CONTRACTOR	• Preparation of monthly ESMP progress reports and submission to the Consultant for approval • Preparation of weekly GM reports and submission to the Consultant's Project Manager • Immediate notification to the Consultant of any significant incidents such as accidents, spills, fatalities, or sexual harassment/exploitation • Preparation of Incident/Accident and Root Cause Analysis Reports • Details of report content are provided in the Environmental and Social Management Framework

9. ANNEXES

9.1.ANNEX I Photographs of the Buildings Within the Scope of the Project

Figure 6 A Block Institute of Forensic Medicine and Faculty of Veterinary Medicine

Figure 7 B Block HAYEF ve TBMYO

Figure 8 E Block TBMYO

Figure 9 F Block HAYEF

Figure 10 H Block School of Foreign Languages

Figure 11 D Block TBMYO Annex Building

9.2. ANNEX II Summaries of World Bank (WB) Environmental and Social Standards

Summary explanations of the World Bank Environmental and Social Standards (ESSs) are provided in the table below.

Table 10 Summaries of World Bank Environmental and Social Standards

ESS	SUBJECT	SUMMARY REQUIREMENT
ESS1	Assessment and Management of Environmental and Social Risks and Impacts	ESS1 sets out the Borrower's responsibilities for assessing, managing, and monitoring environmental and social risks and impacts associated with each stage of a project supported by the World Bank through Investment Project Financing, to achieve environmental and social outcomes consistent with the Environmental and Social Standards (ESSs). Environmental and social assessment shall be based on current information/data and shall include a description of the project and all its relevant aspects, identification and determination of the nature of risks, impacts, and mitigation measures. The assessment shall prioritize disadvantaged and/or vulnerable social groups; assess the potential environmental and social risks and impacts of the project, examine project alternatives, and identify ways to improve project design and implementation to apply the mitigation hierarchy to adverse environmental and social impacts. It will also explore opportunities to enhance positive impacts of the project. Environmental and social assessment shall include stakeholder engagement as an integral part of the assessment process in accordance with ESS10. Under ESS1, the Borrower shall identify, assess, and manage the environmental and social risks and impacts of the project in a systematic manner throughout the project life cycle
ESS2	Labor and Working Conditions	The objectives of ESS2 are to: (i) promote safety and health at work; (ii) promote fair treatment, non-discrimination, and equal opportunity for project workers; (iii) protect workers, including vulnerable workers such as women, persons with disabilities, children of working age (as defined under ESS2), migrant workers, contracted workers, community workers, and primary supply workers; (iv) prevent the use of all forms of forced labor and child labor; (v) support the principles of freedom of association and collective bargaining of project workers in accordance with national law; and (vi) provide accessible grievance mechanisms for project workers to raise workplace concerns. The applicability and scope of implementation of ESS2 depend on the environmental and social assessment described in ESS1 and the type of employment relationship between the Borrower and the project workers. ESS2 requirements include the development and implementation of a written Labor Management Procedure (LMP) applicable to the project. These procedures will define how project workers will be managed in accordance with national law and the requirements of this ESS, and will include identification of the following: (i) working conditions and terms of employment, including non-discrimination and equal opportunity provisions (such as development and implementation of labor management procedures applicable to contractors and a Code of Conduct); (ii) protection of the workforce, including minimum age, prohibition of child labor, and forced labor; (iii) establishment and operation of grievance mechanisms for workers, including referral arrangements to the national system for potential Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH) risks;

		(iv) occupational health and safety; (v) contracted workers; (vi) community workers; and (vii) inclusion of primary supply workers under the applicable framework.
ESS3	Resource Efficiency and Pollution Prevention and Management	ESS3 recognizes that economic activity and urbanization often result in pollution of air, water, and land, and consume limited resources in ways that may threaten people, ecosystem services, and the environment at the local, regional, and global levels. The current and projected atmospheric concentration of greenhouse gases (GHG) threatens the well-being of present and future generations. At the same time, technologies and practices for more efficient and effective resource use, pollution prevention, and avoidance and reduction of greenhouse gas emissions have become more accessible and achievable. This ESS sets out the requirements for addressing resource efficiency and pollution prevention and management throughout the project life cycle, in a manner consistent with Good International Industry Practice. The assessment of risks and impacts related to relevant ESS3 requirements—including raw materials, water use, air pollution, hazardous materials, and hazardous waste—and the proposed mitigation measures are to be included in the Environmental and Social Impact Assessment (ESIA) and Environmental and Social Management Plan (ESMP).
ESS4	Community Health and Safety	ESS4 recognizes that project activities, equipment, and infrastructure can increase the exposure of communities to risks and impacts. Additionally, communities already affected by the impacts of climate change may be more vulnerable to impacts that could arise from project activities. ESS4 addresses the health, safety, and security risks and impacts on project-affected communities and the responsibilities of Borrowers to avoid or minimize such risks and impacts, with particular attention to people who, due to specific circumstances, may be vulnerable to harm.
ESS5	Acquisition, Restrictions on Land Use and Involuntary Resettlement **(This ESS is not applicable to the SREEPB Project)**	ESS5 recognizes that project-related land acquisition and restrictions on land use can have adverse impacts on communities and individuals. Project-related land acquisition or restrictions on land use may result in physical displacement (relocation, loss of residential land, or loss of shelter), economic displacement (loss of land, assets, or access to assets leading to loss of income sources or other means of livelihood), 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 restrictions on land use that result in displacement.
ESS6	Biodiversity Conservation and Sustainable Management of Living Natural Resources **(This ESS is not applicable to the SREEPB Project)**	The environmental and social assessment described in ESS1 shall take into account the direct, indirect, and cumulative impacts of the project on habitats and the biodiversity they support. This assessment shall consider threats to biodiversity such as habitat loss, degradation and fragmentation, invasive alien species, overexploitation, hydrological changes, nutrient loading, pollution, and incidental take, as well as the anticipated impacts of climate change. It shall determine the significance of biodiversity and habitats based on their vulnerability and irreplaceability at global, regional, or national levels, and shall also consider the differing values placed on biodiversity and habitats by project-affected parties and other relevant stakeholders.

ESS7	Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities **(This ESS is not applicable to the SREEPB Project)**	This ESS acknowledges that Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities have identities and aspirations that are distinct from mainstream groups in national societies and are often disadvantaged by traditional models of development.
ESS8	Cultural Heritage	The Borrower shall avoid impacts on cultural heritage. Where avoidance is not possible, the Borrower shall identify and implement measures to address impacts on cultural heritage in accordance with the mitigation hierarchy. Where appropriate, the Borrower shall develop a Cultural Heritage Management Plan.
ESS9	Financial Intermediaries **(This ESS is not applicable to the SREEPB Project)**	Financial intermediaries shall establish and maintain an Environmental and Social Management System (ESMS) to identify, assess, manage, and monitor the environmental and social risks and impacts of subprojects on an ongoing basis.
ESS10	Stakeholder Engagement and Information Disclosure	This ESS recognizes 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 Borrower will engage with stakeholders throughout the project life cycle, beginning such engagement as early as possible in the project development process and in a timeframe that enables meaningful consultations on project design with stakeholders. The nature, scope, and frequency of stakeholder engagement shall be proportionate to the nature and scale of the project and its potential risks and impacts. Stakeholder engagement is an inclusive process conducted throughout the project life cycle. When appropriately designed and implemented, it supports the development of strong, constructive, and responsive relationships that are critical 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 the assessment, management, and monitoring of environmental and social risks and impacts of the project.

9.3. ANNEX III Suggestion & Grievance Form (Online)

The visual of the online form accessible at https://kadevoneri.csb.gov.tr/oneri.jsp is provided below.

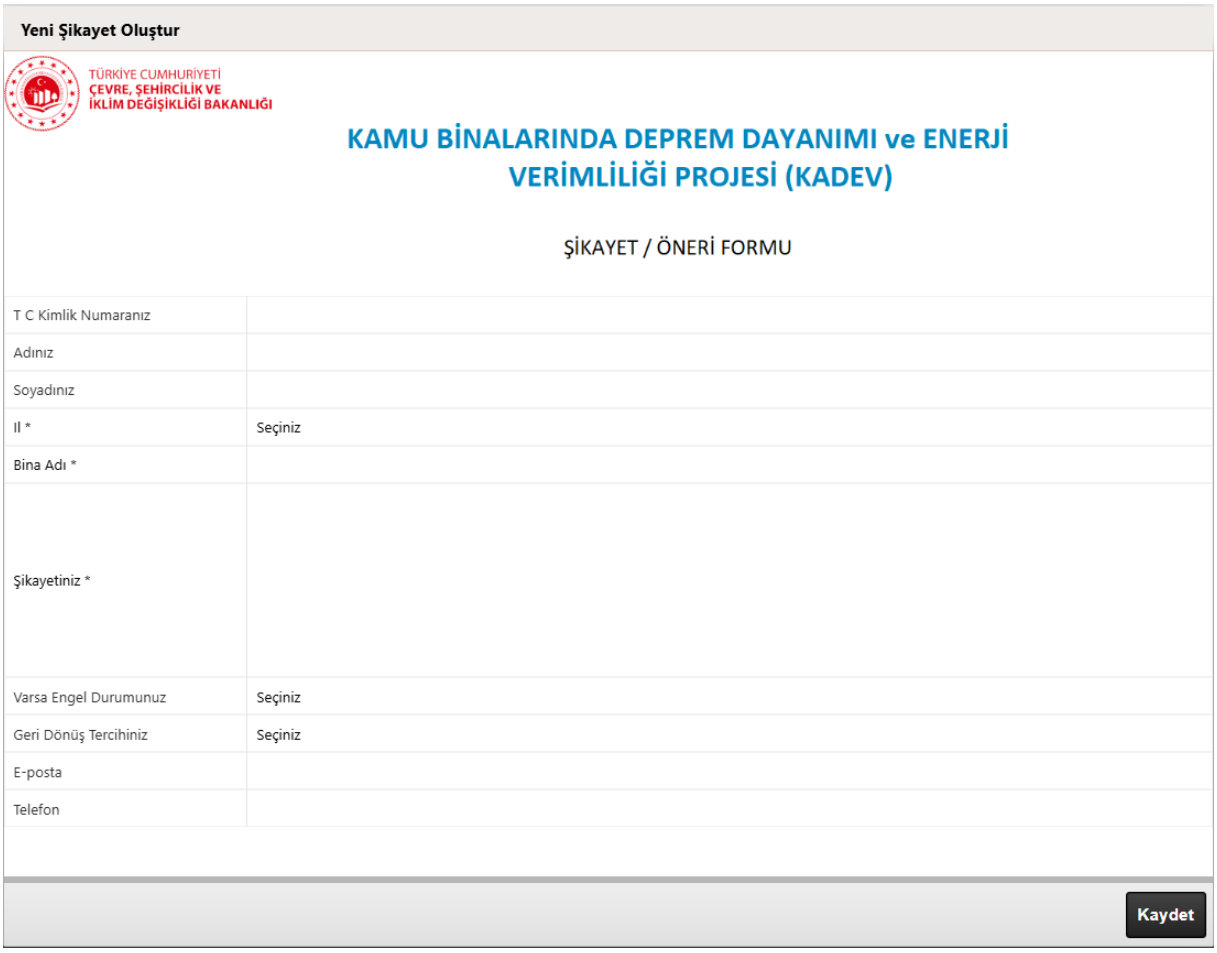


Figure 12 Suggestion & Grievance Form

9.4.ANNEX IV Suggestion & Grievance Form (Printed)

The template Suggestion/Grievance Form to be placed in the Grievance Boxes is provided below.

ŞİKÂYET VE ÖNERİ FORMU	
Referans No	
Tam Adı (*İsim ve iletişim bilgilerinin paylaşılması zorunlu olmamakla birlikte, şikayet/görüş/önerileriniz ile ilgili geri bildirim sürecinde bilgi eksikliği nedeniyle bazı sorunların ortaya çıkabileceği unutulmamalıdır.)*	
Lütfen şikayet/öneri/görüşünüz ile ilgili olarak sizinle nasıl iletişim kurulmasını istediğinizi işaretleyin	E-posta *(lütfen e-posta adresinizi belirtiniz)* _____@_____
	Telefon *(lütfen sizinle iletişim kurulmasını istediğiniz telefon numaranızı belirtiniz)* (___) _____
	Posta *(lütfen sizinle iletişim kurulmasını istediğiniz posta adresinizi belirtiniz)*
İl/İlçe/Mahalle	
Tarih	
Şikâyet Kategorisi	
1. Projeden etkilenen varlıklar / mülkler hakkında	
2. Altyapıda oluşan kesintiler (elektrik, su, internet, doğal gaz kesintisi)	
3. Gelir kaynaklarının azalması veya tamamen kaybedilmesi üzerine (Kantin vs.)	
4. İstihdam kaynaklı (Yüklenici çalışanı)	
5. Çevre ile ilgili konularda (Çöp, toz, yağlı zemin, vs.)	
6. Sağlık ve Güvenlik tehlikesi (Güvensiz inşaat faaliyeti)	

7. Trafik, ulaşım ve diğer riskler hakkında	
8. Diğer (Lütfen belirtin):	
Şikâyetin Tanımı (Ne oldu? Ne zaman oldu? Nerede oldu? Sorunun sonucu nedir?)	
Sorunun çözümlenmesi konusunda ne tür aksiyonlar alınmasını bekliyor/öneriyorsunuz?	
İsim:	**İletişim Bilgisi:**
İmza:	**Tarih:**

Figure 13 Suggestion & Grievance Form

9.5. ANNEX V Grievance Closure Form

The grievance closure form is provided below.

Grievance Closure No		
Description of Required Immediate Action:		
Description of Long-Term Action (if necessary):		
Is Compensation Required?	[ ] YES	[ ] NO
Control of Corrective Action and Decision		
Corrective Action Stage		Deadline and Responsible Institution
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Figure 14 Grievance Closure Form

COMPENSATION AND FINAL STAGES

This section shall be completed and signed by the complainant after receiving the compensation payment and resolution of the grievance.

Notes:

Date:

Complainant:

Representative of the Responsible Institution/Company

[Title-Name-Surname-Signature]

9.6.ANNEX VI STAKEHOLDER ENGAGEMENT MEETING CONTENT & RECORDS

Project Code: WB/CS-DESSUP-03
Meeting Venue: Istanbul University Cerrahpaşa Rectorate Büyükçekmece Campus Conference Hall
Date 27.05.2025
Start | End Time: 14.00 | 16.30
A total of 126 people attended the Stakeholder Engagement Meeting held on 27 May 2025, 116 face-to-face (57 women and 59 men) and 10 online (5 women and 5 men). The following tables provide the meeting minutes summarizing the topics discussed in the meeting presentations, questions asked/comments made and answers given by the participants, photographs from the meeting, meeting PIU and consultant level participants, and a list of slides used in the presentation.

ANNEX 6 / Table 1. Stakeholder Engagement Meeting Minutes

Start Time	End Tima	Contents
14.00	**14.10**	**Meeting Opening Speech**
		PRESENTATION I **General Information on the SREEPB Project and Sub-Projects was given – Objectives were Explained** **Information on the financing, duration and consulting firm of the project was given.** **A brief introduction was given about the tasks to be performed within the scope of the project.**
		

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Kamu Binalarında Deprem Dayanımı ve Enerji Verimliliği Projesi (KADEV)

KADEV, Dünya Bankası kredisi ile Hazine ve Maliye Bakanlığı garantörlüğünde, **Çevre, Şehircilik ve İklim Değişikliği Bakanlığı Yapı İşleri Genel Müdürlüğü** tarafından yürütülen bir projedir.

KADEV Projesinin amacı,
- ✓ deprem riski yüksek olan kamu binalarının depreme karşı güçlendirilmesi
- ✓ enerji kullanımı bakımından verimsiz olan binaların enerji verimliliğinin sağlanmasıdır.

Proje ve Saha Kontrollüğü Danışmanlık Hizmetleri **Tima Mühendislik Müşavirlik Proje ve Yönetim A.Ş. & OBS Proje Mühendislik Müşavirlik LTD. ŞTİ İş Ortaklığı** tarafından sağlanmaktadır.

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Proje Kapsamındaki Binalar

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Proje Kapsamındaki Binalar

Kampüs	Bina No	Bina Adı	Blok Sayısı
İstanbul Üniversitesi Cerrahpaşa Rektörlüğü Büyükçekmece Kampüsü Binaları	1	Cerrahpaşa E Blok TBMYO	2
	2	Cerrahpaşa A Blok Adli Tıp Enst. ve Veteriner Fak.	3
	3	Cerrahpaşa B Blok HAYEF ve TBMYO	3
	4	Cerrahpaşa F Blok HAYEF	2
	5	Cerrahpaşa D Blok TBMYO Ek Bina	1
	6	Cerrahpaşa R Blok Laboratuvar ve Sağlık Bil.	3
	7	Cerrahpaşa H Blok Yabancı Diller Yüksekokulu	3

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Genel Proje Bilgisi

Öznitelik Bilgisi

Öznitelik Bilgisi	Bina/BB Listesi
İl	İstanbul
İlçe	Büyükçekmece
Mahalle/Köy	Alkçaburgaz
Mahalle No	180734
Ada	226
Parsel	4
Tapu Alanı	153.788,27
Nitelik	B.A.K.Üniversite Ve Arsası
Mevkii	-
Zemin Tip	Ana Taşınmaz
Pafta	F21d18a2d-2Cf21

- İÜ Cerrahpaşa Kampüsü Büyükçekmece Kampüs Binaları; Büyükçekmece İlçesinde bulunmaktadır.
- Kapsam dahilindeki binaların toplam inşaat alanı:53.897 m2'dir.

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Proje Süresi

Proje 2 fazdan oluşmaktadır.

•**Faz-1:** Yapısal Değerlendirme, Enerji Etüdü, Yapısal-Enerji Güçlendirme Tasarımı Danışmanlık Hizmetleri (*6 Ay*)

•**Faz-2:** İnşaat Kontrollüğü Danışmanlık Hizmetleri (*3 gruptan oluşmaktadır. Her bir grup 10 ay inşaat süreci ve 12 ay kusur sorumluluk süreci içermektedir.)*

N°	Deliverables/Tasks	Months											
		2	4	6	8	10	12	14	16	18	20	22	24	26
1	Istanbul University Cerrahpaşa Rectorate Büyükçekmece Campus Buildings													
2														
3														

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KADEV PROJESİ FAZ-1 & FAZ-2 KAPSAMINDAKİ İŞLER

FAZ-1

- Saha Rölöve Çalışması(Statik-Mimari-Mekanik-Elektrik)
- Rölöve Projelerinin Hazırlanması
- Saha Ölçümlerinin Alınması
- Enerji Etüt Raporu Hazırlanması
- Yapısal Performans Değerlendirme Raporu Hazırlanması
- Çevresel ve Sosyal Yönetim Planı Hazırlanması
- İş Sağlığı ve Güvenliği Planı Hazırlanması
- Sosyal Raporların Hazırlanması
- Detaylı Tadilat ve Yenileme Tasarımları ,Teknik Şartname ve Yaklaşık Maliyet Hazırlanması
- Ölçme ve Doğrulama Planı Hazırlanması
- Devreye Alma Planı Hazırlanması

FAZ-2

- İnşaat Yapım İşleri, İnşaat Kontrollüğü

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		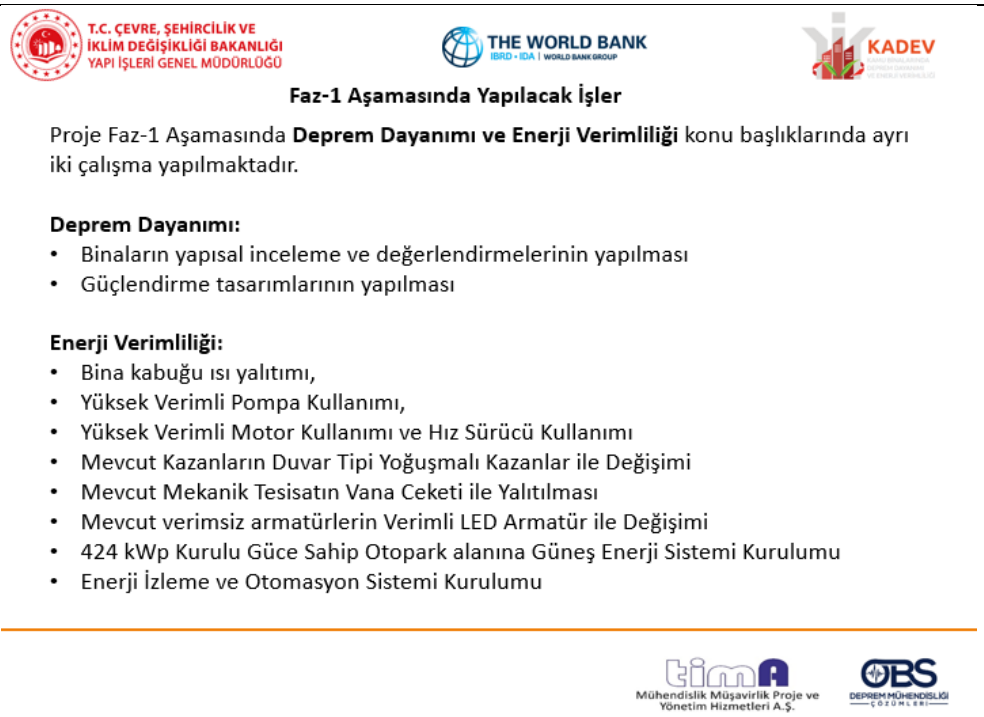
14.10	**14.30**	Providing information about Earthquake Resistance
		Information was given about the earthquake reinforcement project and construction methods.
		

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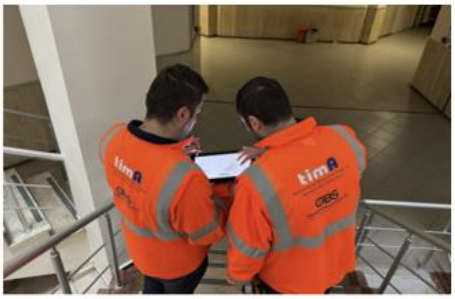
YAPISAL TAŞIYICI SİSTEM BELİRLENMESİ (RÖLÖVE)



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MALZEME KARAKTERİSTİK ÖZELLİKLERİNİN BELİRLENMESİ ÇALIŞMALARI

Sıra No	Blok Adı	Beton Sınıfı	Donatı Sınıfı		Sıklaştırma	Kanca	Korozyon Durumu
			Boyuna Donatı	Enine Donatı			
1	A1 Blok	C16	S420/S220	S420/S220	Var	90°	Hafif
2	A2 Blok	C13	S420	S420/S220	Yok	90°	Hafif
3	A3 Blok	C15	S420	S420/S220	Var	90°	Hafif
4	B1 Blok	C13	S420/S220	S420	Var	90°	Hafif
5	B2 Blok	C13	S420	S420/S220	Yok	90°	Hafif
6	B3 Blok	C14	S420	S420/S220	Var	90°	Hafif
7	D Blok	C12	S420	S420	Yok	90°	Var
8	E1 Blok	C14	S420	S420	Var	90°	Yok
9	E2 Blok	C17	S420	S420	Yok	90°	Hafif
10	F1 Blok	C16	S420	S420/S220	Yok	90°	Yok
11	F2 Blok	C16	S420	S420	Yok	90°	Hafif
12	HA Blok	C19	S420	S420	Var	135°	Yok
13	HB Blok	C17	S420	S420	Yok	135°	Yok
14	HC Blok	C17	S420	S420	Var	135°	Yok
15	R1 Blok	C27	S420	S420	Var	135°	Yok
16	R2 Blok	C25	S420	S420	Var	135°	Yok
17	R3 Blok	C26	S420	S420	Var	135°	Yok

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ZEMİN KARAKTERİSTİK ÖZELLİKLERİNİN BELİRLENMESİ ÇALIŞMALARI

Yerel Zemin Sınıfı	Zemin Cinsi	Üst 30 metrede ortalama		
		$(V_s)_{30}$ [m/s]	$(N_{60})_{30}$	$(c_u)_{30}$ [kPa]
ZA	Sağlam, sert kayalar	> 1500	-	-
ZB	Az ayrışmış, orta sağlam kayalar	760 – 1500	-	-
ZC	Çok sıkı kum, çakıl ve sert kil tabakaları veya ayrışmış, çok çatlaklı zayıf kayalar	360 – 760	> 50	> 250
ZD	Orta sıkı – sıkı kum, çakıl veya çok katı kil tabakaları	180 – 360	15 - 50	70 - 250

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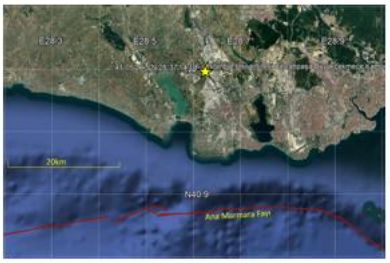
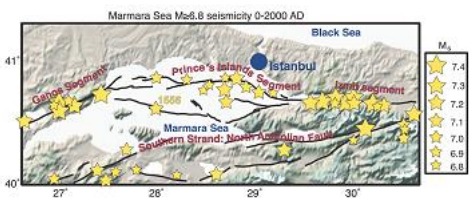
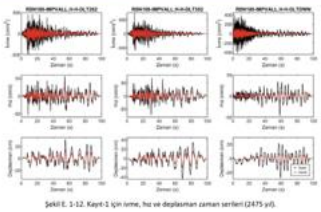
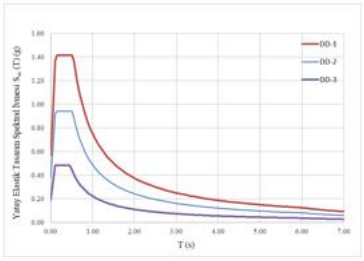
DEPREMSELLİK









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PERFORMANS HEDEFİ

Hangi Deprem Düzeyi?

Depremler, olma olasılıklarına bağlı olarak çeşitli düzeylerde tanımlanmıştır.
Küçük depremlerin olma olasılığı yüksektir, dolayısıyla sık gerçekleşir.
Büyük depremlerin olma olasılığı düşüktür, dolayısıyla nadir gerçekleşir.

Nasıl Bir Yapısal Performans?

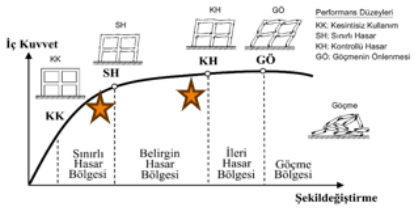
Sık Depremler (Sınırlı Hasar SH):

Kullanım devam etsin, hasar yok, ihmal edilebilir veya az/sınırlı hasar.

Çok Nadir Depremler (Kontrollü Hasar):

Ağır olmayan onarılabilen hasarlar,

Deprem Düzeyi	Olasılık	Dönüş Periyodu	Performans Hedefi
DD-4	%68 / 50 yıl	43 yıl	-
DD-3	%50 / 50 yıl	72 yıl	Sınırlı Hasar
DD-2	%10 / 50 yıl	475 yıl	-
DD-1	%2 / 50 yıl	2475 yıl	Kontrollü Hasar



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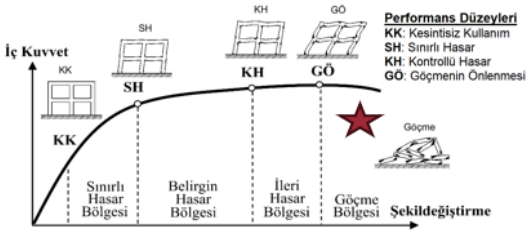
YAPILARIN GENEL MEVCUT DEPREM PERFORMANSI DURUMU

Göz önüne alınan deprem yer hareketi olan
DD-1
[Deprem Yer Hareketi Düzeyi-1] : 50 yılda %2
için
Yapı Performans Düzeyi
DD1: GÖÇME



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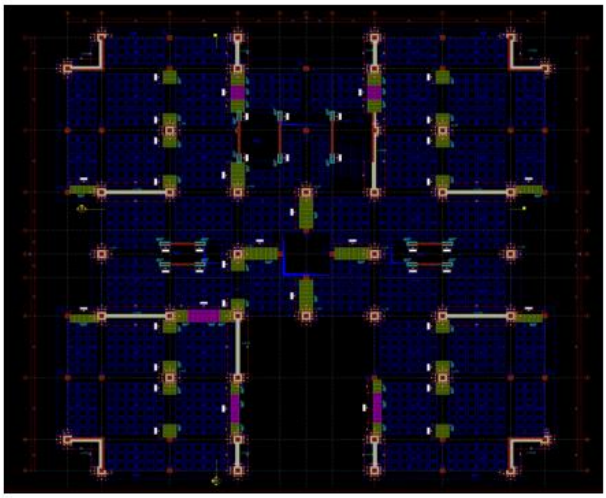
GÜÇLENDİRME METODOLOJİSİ



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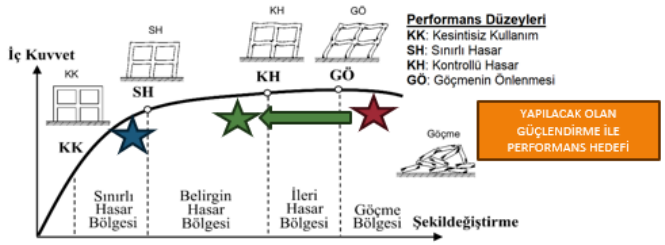
YAPILACAK OLAN GÜÇLENDİRME İLE YAPILARIN DEPREM PERFORMANSI

- DD-1 DEPREM DÜZEYİ MEVCUT DURUM DEPREM PERFORMANSI
- DD-1 DEPREM DÜZEYİ GÜÇLENDİRİLMİŞ DURUM DEPREM PERFORMANSI
- DD-3 DEPREM DÜZEYİ GÜÇLENDİRİLMİŞ DURUM DEPREM PERFORMANSI



Performans Düzeyleri
KK: Kesintisiz Kullanım
SH: Sınırlı Hasar
KH: Kontrollü Hasar
GÖ: Göçmenin Önlenmesi

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ÖBS DEPREM MÜHENDİSLİĞİ ÇÖZÜMLERİ

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YIKIM SÖKÜM İŞLERİ

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TEMEL SİSTEMİNİN TESPİTİ

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YAPI İŞLERİ GENEL MÜDÜRLÜĞÜ
THE WORLD BANK
KADEV
EPOKSİ İLE ANKRAJ FİLİZ EKİMİ
DELİCİ İLE ANKRAJ DELİĞİ AÇMA
ANKRAJ DELİKLERİNE EPOKSİ UYGULANMASI
EPOKSİ İLE FİLİZ EKİMİ
TEST VE MUAYENE
timA
Mühendislik Müşavirlik Proje ve Yönetim Hizmetleri A.Ş.
DEPREM MÜHENDİSLİĞİ ÇÖZÜMLERİ


T.C. ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI
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DEMİR DONATI İŞLERİ
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KARBON FİBER (FRP) İŞLERİ

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14.30	**14.50**	Providing information about Energy Efficiency
		Information was given about energy efficiency studies and processes.
		

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Enerji Verimliliği Çalışmaları

Büyükçekmece Kampüsü'nde gerçekleştirilen detaylı etüt çalışması ile; enerji tasarruf potansiyellerinin tespit edilmesi, enerji verimliliğinin arttırılmasına yönelik gerekli önlemlerin alınması ve burada elde edilen başarının kamuoyuna duyurulması amaçlanmaktadır.

Gerçekleştirilen bu etüt çalışmasının nihayetinde; konfor ve kaliteden ödün vermeden yakıt ve elektrik tüketiminin azaltılması, CO2 emisyonlarında azaltım sağlanması, personelin iç ortam konfor şartlarının iyileştirilmesi, kamu sektöründe enerji verimliliği farkındalığının artması hedeflenmiştir.

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Enerji Verimliliği Çalışmaları

- Binaların mevcut durumlarının tespitlerinin yapılması için Mimari, Mekanik ve Elektrik disiplinleri tarafından ayrı ayrı saha ziyaretleri yapılmaktadır.

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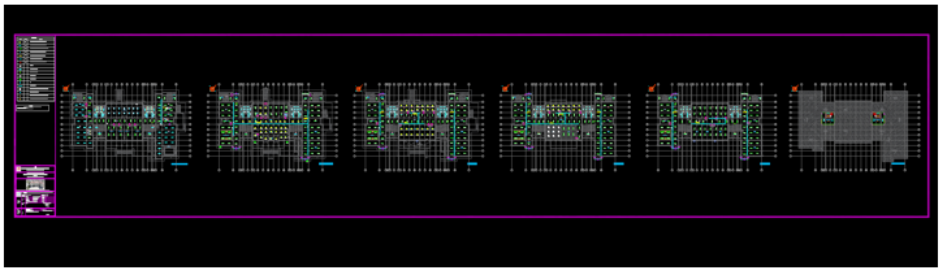
Enerji Verimliliği Çalışmaları

- Binaların mevcut durum tespitleri yapılarak, binaların mevcut durumlarını yansıtan rölöve projeleri hazırlanmaktadır.



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Enerji Verimliliği Çalışmaları

- Özellikle enerji tasarrufu sağlanabilecek tüm alanlarda gerekli incelemeler yapılarak veriler toplanmaktadır.

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Enerji Verimliliği Çalışmaları

- Bina kabuğunda incelemeler yapılmakta, ölçümler alınmaktadır.

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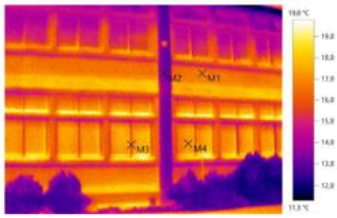

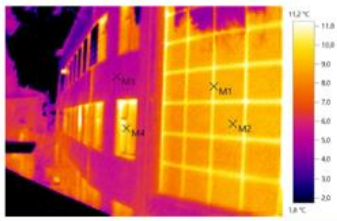

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Enerji Verimliliği Çalışmaları

- Sahada enerji tüketen sistemler üzerinde ölçümler alınmaktadır.

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Enerji Verimliliği Önlemleri

Enerji Etüt çalışmaları sonucunda kampüs alanında bulunan 7 bina için aşağıdaki Enerji Verimlilik Önlemleri belirlenmiştir.

- Bina Kabuğu Ve Çatı Arasına Isı Yalıtımı Yapılması
- Mevcut Kazanların Duvar Tipi Yoğuşmalı Kazanlar ile Değişimi
- Tesisat Ekipmanlarının Vana Ceketi ile Yalıtılması
- Pompaların Frekans invertörlü pompalar ile değişimi
- İç Mekân Verimsiz Aydınlatma Armatürlerinin LED Aydınlatma Armatürleri İle Değiştirilmesi
- Otomasyon Sisteminin Kurulması
- Enerji İzleme Sistemi Kurulması
- 424 kWp Kurulu Güce Sahip Otopark GES Kurulumu

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14.50	**15.10**	Providing information about Environmental and Social Management
		Information was provided on environmental and social management issues to be taken into consideration during manufacturing Information was provided on different types of waste. Explanations were made on the project impact on soil, water and air quality.
		

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Çevresel Yönetim Kapsamı

Çevresel ve Sosyal Yönetim Planı (ÇSYP); İstanbul Üniversitesi-Cerrahpaşa Büyükçekmece Yerleşkesi'nde proje kapsamındaki binaların yapılacak yapısal güçlendirme ve enerji verimliliği odaklı iyileştirme çalışmaları hakkında bilgi vermekte olup, söz konusu çalışmaların yenileme faaliyetlerinin neden olabileceği olası olumsuz çevresel ve sosyal etkilerin kabul edilebilir düzeyde tutulabilmesi ve/veya ortadan kaldırılabilmesi için alınması gereken önlemleri içermektedir.

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Çevresel ve Sosyal Yönetim Kapsamı

- Faz I aşamasında hazırlanan, Çevresel ve Sosyal Yönetim Planı'nın Faz-2 aşamasında sahada yüklenici tarafından uygulanmasının denetlenmesi
- Proje yapım faaliyetleri sırasında oluşabilecek olası olumsuz sosyal ve çevresel etkilerin alınan tedbirlerle minimize edilmesi
- **Atık yönetimi :** Çeşitli atık akışları ile uygun olmayan atık yönetiminden dolayı olası olumsuz çevresel etkiler ve sağlık etkileri meydana gelebilir (uygun olmayan atık yönetimi, suda ve toprakta doğrudan ve dolaylı kirlilik oluşturabilir ve hava kalitesini etkileyebilir)
- **Kirlilik Önleme :** Yıkım ve yapım faaliyetleri, inşaat sahalarında kirliliğe neden olabilir.
- **Gürültü :** İşçilerin şantiyede bulunması, tadilat/inşaat işleri ve ulaşım araçlarının hareketleri, gürültü ve titreşim seviyesini artıracaktır.
- **Hava Kalitesi/Emisyon :** İnşaat faaliyetleri sırasında oluşabilecek toz ve kamyon emisyonları hava kalitesini etkileyebilecektir.
- **Su kalitesi** : İnşaat alanında oluşan atıksu/atıkların kontrolsüz bertarafı
- **Toprak kalitesi :** Tehlikeli madde ve atıkların toprağa karışması.
- Toplum Sağlığı ve Güvenliği/Trafik ve Yaya Güvenliği
- Şikayet mekanizmasının takibi / yönetimi
- Broşürlerin dağıtımının yönetilmesi
- Aylık Raporlama

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Atık Yönetimi

- Atıkların kaynağında azaltımı sağlanacak ve bu kapsamda çalışanlara eğitimler verilecektir.
- Atıkların geri kazanımı esastır. Atık türleri ayrı olarak toplanacak, depolanacak ve Lisanslı firmalar aracılığıyla ve ulusal mevzuat gereklilikleri doğrultusunda geri kazanımı/bertarafı sağlanacaktır.
- Toplanan, depolanan veya sevk edilen atıklara ilişkin kayıtlar tutulacaktır.

Atık Türleri:

- İnşaat ve Hafriyat Atıkları
- Atık Piller ve Aküler
- Tehlikeli Atıklar
- Güneş Panelleri
- Evsel Nitelikli Atıklar
- Asbest

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Atık Yönetimi

Tehlikeli Atıklar;

- Tehlikeli atıkların yönetimi, Atık Yönetimi Yönetmeliği uyarınca gerçekleştirilecektir.
- Proje sahasında tehlikeli atıkların geçici olarak depolanması durumunda atıklar; sağlam, sızdırmaz, emniyetli ve uluslararası kabul görmüş standartlara uygun konteynerlerde ve proje alanı içerisinde muhafaza edilecek, konteynerlerin üzerinde tehlikeli atık ibaresine yer verilecek ve depolanan maddenin atık kodu, miktarı, içeriği, özellikleri, koruma koşulları ve depolama tarihi konteynerler üzerinde belirtilecektir. Tehlikeli maddeler azami 6 ay geçici olarak depolanabilir. Zararlı maddelerin saklandığı konteynerler ve atık yağlar toprak kalitesini korumak amacıyla toprağa dökülme ve sızıntıyı önlemek için sızdırmaz beton alanlara yerleştirilecektir.
- Zehirli içeriğe sahip boyalar, eritici madde (solvent) ya da kurşun bazlı kimyasallar kullanılmayacaktır.

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Atık Yönetimi

Evsel Atıklar;

- Oluşacak evsel nitelikli atıklar kaynağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir olanların geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir.
- Geri kazanımı mümkün olmayan atıklar, ağzı kapalı sıhhi çöp bidonlarında biriktirilecek, yetkili Belediyenin katı atık toplama sistemi aracılığıyla düzenli depolama sahalarına gönderilecektir.

Ambalaj Atıkları;

- Kontamine olmamış geri dönüştürülebilir atıkların (plastik, cam, kağıt, vb.) geri dönüşümü sağlanacaktır. Atıkların uygun biçimde ayrıştırılması için çalışanlara eğitim verilecektir.
- Tehlikeli maddeler ile kontamine olmuş ambalaj atıklarının tamamı, tehlikeli atık statüsünde değerlendirilecektir.

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Gürültü Yönetimi ve Hava Kalitesinin Kontrolü

İnşaat faaliyetleri sırasında özellikle yıkım aşamasında oluşacak toz ve gürültünün izin verilen sınırlar içinde kalabilmesini sağlamak amacıyla yüklenici, akredite laboratuvar aracılığıyla toz ve gürültü ölçümleri gerçekleştirecektir. Limitleri aşması durumunda ilave tedbirler alınacak ve tüm bu çalışmalar müşavir kontrolünde yürütülecektir.

Yüklenici;
ÇSYP'yi destekleyici alt yönetim planları (Atık Yönetim Planı, Kirliliği Önleme Planı, Toplum Sağlığı ve Güvenliği Planı v.b.) hazırlayacak, müşavir inceleyecek ve PUB onaylayacaktır.

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15.10	**15.30**	Providing information about Social Management
		The scope of the stakeholders within the scope of the project was explained The functioning of the complaint mechanism was explained. Information was given about complaint channels. The contents of the trainings to be given to the employees were explained The subjects that the project focused on and the functioning of the mechanism were explained in terms of sexual violence and sexual harassment and exploitation.
		

T.C. ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI

KABEV

Sosyal Yönetim / Paydaş Katılımı

- Paydaş katılımı, bir projenin ya da sürecin çeşitli aşamalarında, o projeden doğrudan veya dolaylı olarak etkilenen tüm kişi, grup ve kurumların görüşlerini, endişelerini, önerilerini ve geri bildirimlerini dikkate alarak karar alma süreçlerine dahil edilmesini ifade eder.

- Bu süreç, projeyle ilgili tüm taraflar arasında açık ve etkili bir iletişim kurulmasını sağlayarak, daha kapsayıcı, şeffaf ve sürdürülebilir sonuçlar elde etmeyi amaçlar.

timA efektif enerji ÜLKER

T.C. ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI YAPI İŞLERİ GENEL MÜDÜRLÜĞÜ

THE WORLD BANK IBRD • IDA | WORLD BANK GROUP

KADEV

Sosyal Yönetim / Öneri ve Şikayet Mekanizması

- Öneri Şikayet Mekanizması, tüm paydaşların, projenin planlanması, inşası veya uygulanmasıyla ilgili tüm şikâyet veya önerilerini iletebilecekleri bir süreçtir. KADEV Projesi'ne özel olarak şeffaf ve kapsamlı bir ŞM geliştirilmiştir.
- Beklentilerinizi, görüşlerinizi, önerilerinizi ve şikayetlerinizi aşağıdaki kanallar vasıtası ile iletebilirsiniz;

Proje İnternet Sitesi https://kamuguclendirme.csb.gov.tr/

Şikayet ve Öneri Formu https://kadevoneri.csb.gov.tr/oneri.jsp

Telefon 0312 586 48 58

Destek Hattı Alo 181

timA Mühendislik Müşavirlik Proje ve Yönetim Hizmetleri A.Ş.

DBS DEPREM MÜHENDİSLİĞİ ÇÖZÜMLERİ

T.C. ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI YAPI İŞLERİ GENEL MÜDÜRLÜĞÜ — THE WORLD BANK IBRD • IDA | WORLD BANK GROUP — KADEV

Sosyal Yönetim / Öneri ve Şikayet Mekanizması

Şikayet kutuları; kampüs alanındaki sözleşme kapsamında bulunan tüm bina girişlerine ve sözleşme kapsamında olmayan KLMN Blok girişine yerleştirilmiştir.

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Sosyal Yönetim / Öneri ve Şikayet Mekanizması

- KADEV Projesi kapsamında yürütülecek faaliyetler sebebiyle ortaya çıkabilecek her türlü şikayet, görüş ya da önerinin toplanması için proje uygulama alanında hem yüklenici hem de müşavir tarafından iki sosyal uzman tam zamanlı olarak bulunacaktır.

- Paydaşlar, sözlü şikayetlerini proje faaliyet alanındaki şantiye şefi, sosyal uzmanlar ve proje müdürlerine iletebilirler.
- Projede çalışan işçilerin yerel halkla iletişime geçmesi yasaktır. Dolayısıyla sözlü şikayetlerinizi alamazlar.

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Sosyal Yönetim / Öneri ve Şikayet Mekanizması

ŞİKÂYET VE ÖNERİ FORMU*

Referans No	
Tam Adı *(İsim ve iletişim bilgilerinizin paylaşılması zorunlu olmamakla birlikte, şikayet/görüş/önerileriniz ile ilgili geri bildirim sürecinde bilgi eksikliği nedeniyle bazı sorunların ortaya çıkabileceği unutulmamalıdır.)*	
Lütfen şikayet/öneri/görüşünüz ile ilgili olarak sizinle nasıl iletişim kurulmasını istediğinizi işaretleyin	E-posta *(lütfen e-posta adresinizi belirtiniz)* _____ Or _____ _
	Telefon *(lütfen sizinle iletişim kurulmasını istediğiniz telefon numaranızı belirtiniz)* (___) _____
	Posta *(lütfen sizinle iletişim kurulmasını istediğiniz posta adresinizi belirtiniz)*
İl/İlçe/Mahalle	
Tarih	
Şikâyet Kategorisi	
1. Projeden etkilenen varlıklar / mülkler hakkında	
2. Altyapıda oluşan kesintiler (elektrik, su, internet, doğal gaz kesintisi)	
3. Gelir kaynaklarının azalması veya tamamen kaybedilmesi üzerine (Kantin vs.)	
4. İstihdam kaynaklı (Yüklenici çalışanı)	
5. Çevre ile ilgili konularda (Çöp, toz, yağlı zemin, vs.)	
6. Sağlık ve Güvenlik tehlikesi (Güvensiz inşaat faaliyeti)	
7. Trafik, ulaşım ve diğer riskler hakkında	
8. Diğer (Lütfen belirtin):	
Şikâyetin Tanımı (Ne oldu? Ne zaman oldu? Nerede oldu? Sorunun sonucu nedir?)	
Sorunun çözümlenmesi konusunda ne tür aksiyonlar alınmasını bekliyor/öneriyorsunuz?	
İsim:	**İletişim Bilgisi:**

timA Mühendislik Müşavirlik Proje ve Yönetim Hizmetleri A.Ş. — ÖBS DEPREM MÜHENDİSLİĞİ ÇÖZÜMLERİ

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Sosyal Yönetim / Öneri ve Şikayet Mekanizması

- Cinsiyet temelli şiddet ve cinsel sömürü ve taciz konularındaki şikâyetler için gizlilik bakımından aşağıda verilen ve anonim şikayetlere izin veren web tabanlı şikâyet sisteminin kullanılması önerilmektedir.
- Gizliliğin sağlanabilmesi adına, söz konusu web tabanlı şikâyet sistemine yetkilendirilmiş bir personelin giriş yetkisi olacaktır.
- Prosedürler, gereksiz idari aşamalardan kaçınarak olabildiğince basit tutulacaktır. Aynı zamanda adil, şeffaf ve ilgili kişiler için bilgilendirici olacaktır.
- Yanıtların verilmesi ve belirtilen sorunların çözülmesi için belirli bir zaman çerçevesi takip edilecektir; şikâyet çözümü için belirlenen süre maksimum 30 gündür.


Şikayet / Öneri Formu

KAMU BİNALARINDA DEPREM DAYANIMI ve ENERJİ VERİMLİLİĞİ PROJESİ (KADEV)

ŞİKAYET / ÖNERİ FORMU

timA Mühendislik Müşavirlik Proje ve Yönetim Hizmetleri A.Ş. — ÖBS DEPREM MÜHENDİSLİĞİ ÇÖZÜMLERİ

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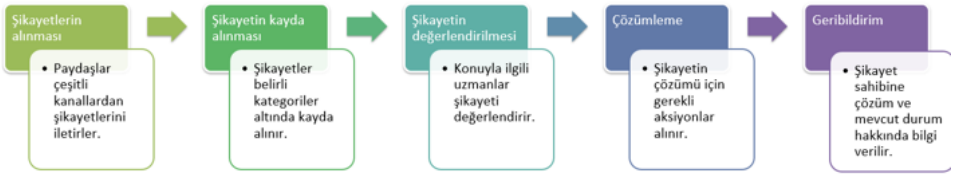
Sosyal Yönetim / Öneri ve Şikayet Mekanizması



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Sosyal Yönetim / Eğitimler

Şikayet Mekanizması Eğitimi

Bu eğitim, şikayetleri toplayacak ekibin şikayet alma, kaydetme, değerlendirme ve geri bildirim süreçlerinde etkin olmasını sağlamak için gerekli bilgi ve becerileri kazandırmayı hedefler.

Cinsiyet Temelli Şiddet Eğitimleri

Toplumsal cinsiyet eşitliğini desteklemek ve cinsiyet temelli şiddeti önlemek amacıyla yükleniciye özel bir eğitim verilecektir. Bu eğitim, katılımcılara

- cinsiyet temelli şiddetin tanımı,
- etkileri,
- önleme stratejileri

hakkında bilgi sunarak farkındalığı artırmayı ve bu tür şiddetle mücadele etme yetkinliklerini geliştirmeyi amaçlamaktadır.

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Sosyal Yönetim / Anketler

Yapım süreci öncesi, sırası ve sonrasında yapılacak anket çalışmaları projenin toplumsal etkilerinin izlenebilmesi için önemlidir.
Toplamda yapılacak üç anket şu şekildedir:

- İÜ Cerrahpaşa Rektörlüğü Büyükçekmece İşi güçlendirme öncesi farkındalık anketi (hali hazırda uygulanmaktadır)
- Paydaş katılım toplantıları sırasında yapılacak memnuniyet anketi
- İÜ Cerrahpaşa Rektörlüğü Büyükçekmece işi sonrası memnuniyet anketi

Paydaşların anketleri doldurması, projenin toplum üzerindeki etkilerini daha iyi anlayabilmemiz ve gelecekteki çalışmalarımızı bu geri bildirimlere göre şekillendirmemiz açısından büyük önem taşımaktadır.

Katılımınız, projenin başarısını artırmak ve ihtiyaçlarınızı daha iyi karşılamak adına kritik bir rol oynayacaktır.

Güçlendirme Öncesi Farkındalık Anketi

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Paydaş Bilgilendirme Toplantısı Değerlendirme Anketi

Katılımcıların geri bildirimlerini toplamak amacıyla düzenlenen bu anket, toplantının etkinliğini değerlendirmek, paydaşların memnuniyetini ölçmek ve gelecekteki toplantılar için iyileştirme alanlarını belirlemek amacıyla hazırlanmıştır.

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OBS DEPREM MÜHENDİSLİĞİ ÇÖZÜMLERİ

		
15.30	**15.500**	Providing information about Occupational Health and Safety
		The prominent points regarding Occupational Health and Safety issues in the project were explained Information was provided about the traffic plan to be implemented during construction and measures regarding occupational health and safety Information was provided about people who may be affected by risks/hazards on and off the construction site, emergencies and standards to be followed Occupational health and safety organization chart and traffic action plan were explained.
		

T.C. ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI YAPI İŞLERİ GENEL MÜDÜRLÜĞÜ — THE WORLD BANK IBRD • IDA | WORLD BANK GROUP — KADEV

İş Sağlığı ve Güvenliği Planı-Temel Kabuller

- İSG Planı, Ulusal Mevzuata uygun ve Dünya Bankası Standartlarına uyumlu olacak şekilde hazırlanmıştır.
- İnşaat faaliyetlerine başlanmadan önce, gerekli tüm yasal izinler alınacaktır.
- Yapım Faaliyetlerinden kaynaklanabilecek Tehlikeler/Risklere karşılık alınması gereken Kontrol önlemlerine planda yer verilmiştir.
- Olabilecek değişikliklere göre, Riskler ve Kontrol Önlemleri gözden geçirilecek gerekli düzenleme ve eklemeler yapılacaktır.
- Yapım Faaliyetleri süresince, Proje Uygulama Birimi(PUB) ve Müşavir tarafından düzenli saha denetimleri yapılmak suretiyle planın uygulanması sağlanacak, planın etkinliği performans değerlendirme verileri ile ölçülecektir.
- Plan, sadece Projede çalışanları (şantiye alanını) değil, yapım faaliyetlerinden etkilenebilecek yakın çevredeki diğer paydaşları da (sağlık çalışanları, hastalar, halk, öğrenciler vb.) kapsayacak şekilde hazırlanmıştır.
- Yararlanıcı Kurum tarafından gerçekleştirilecek, inşaat sahası içindeki binaların yıkımı ve taşınması sırasındaki tehlike ve risklere ilişkin önlemler Yararlanıcı Kurum tarafından alınacaktır.

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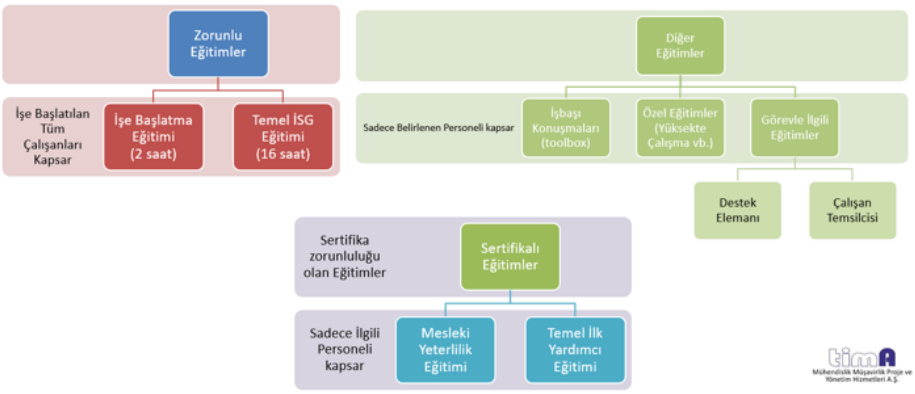
İş Sağlığı ve Güvenliği Eğitimleri



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İş Sağlığı ve Güvenliği Eğitimleri

MESLEKİ YETERLİLİK BELGESİ zorunluluğu olan aşağıdaki mesleklerde çalışacakların, Mesleki Yeterlilik Belgeleri yoksa çalıştırılamazlar.

İNŞAAT	İNŞAAT(devamı)	MEKANİK	ELEKTRİK
Ahşap Kalıpçı	Isı Yalıtımcısı	Çelik Kaynakçısı	Asansör Montajcısı-3 Asansör Montajcısı – 4
Alçı Levha Uygulayıcısı	Su Yalıtımcısı	Endüstriyel Boru Montajcısı	Elektrik Pano Montajcısı – 3 Elektrik Pano Montajcısı - 4, 5
Alçı Sıva Uygulayıcısı	Seramik Karo Kaplamacısı		Elektrik Tesisatçısı - 3 Elektrik Tesisatçısı – 4, 5
Betonarme Demircisi	İskele Kurulum Elemanı		Elektromekanik Montaj İşçisi - 3
Betoncu	İnşaat Boyacısı		Elektromekanik Montaj İşçisi - 4
Duvarcı	İnşaat İşçisi		Otomasyon Sistemleri Montajcısı -4
Kartonpiyer Uygulayıcısı	Sıvacı		Otomasyon Sistemleri Programcısı -5
Panel Kalıpçısı	Tünel Kalıpçı		Elektrik Dağıtımı Scada Opr.
PVC Doğrama Montajcısı	Yangın Yalıtımcısı		
Ses Yalıtımcısı			

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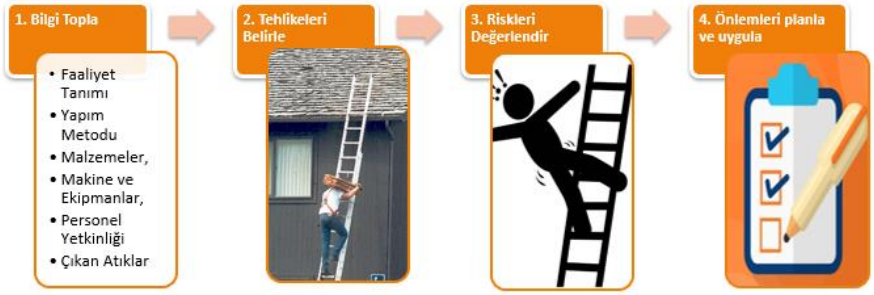
Tehlike Tanımlama ve Risk Değerlendirmesi

Sahada yürütülecek **faaliyetler başlamadan önce** Riskler Değerlendirilir, alınması gereken önlemler belirlenir ve uygulanır.



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Şantiye Çevresinde Yapım Faaliyetlerinin Neden Olacağı Tehlikeler

Şantiyenin, kampüs alanında olması sebebiyle yürütülen faaliyetlerden kaynaklanan belli başlı tehlikeler, Risk Değerlendirmesinde dikkate alınarak, gerekli önlemler planlanır.

- Toz Emisyonu,
- İş Makineleri Kaynaklı İş Kazaları
- Trafik Kazaları
- Şantiyede Oluşan Tehlikeli Atıklar
- Patlama, Yangın
- Faaliyetleri Sırasında Toz İle Havaya Karışan Mantar Sporları (Aspergillus)

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Şantiye Çevresinde Yapım Faaliyetlerinin Neden Olacağı Tehlikeler

Sahada yürütülecek faaliyetlerde kullanılacak Makine, Ekipman, Donanım, El Aletleri, Araç ve Gereçler bakımlı, çalışır durumda, hasarsız ve ilgili Standartlara Uygun olacaktır.

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Şantiye Sahasına Giriş-Çıkışlar, Ziyaretçiler

- Şantiye Sahasına, görevi olmayan üçüncü kişilerin girmesi yasaktır.
- Şantiyeye, Giriş/Çıkışlar, Yüklenici tarafından kontrol altında tutulacaktır.
- Şantiye sahasının, yakın çevresi ile temasının kesilmesi için OSB Trapez panel vb. malzemelerle saha kapatma işlemi yapılacak, uyarı levhaları yerleştirilecektir.

Ziyaretçilerin Uymakla Yükümlü Olduğu Temel Kurallar aşağıdaki gibidir:

- Ziyaretçilerin, Yüklenici firmanın izni olmadan çalışma alanlarına girişleri yasaktır.
- Ziyaretçiler çalışma alanlarında bulundukları sırada karşı karşıya kalabilecekleri riskler ve önlemler hakkında, Acil Durum Planı hakkında bilgilendirildikten sonra şantiye sahasına çıkarılacaklardır.
- Ziyaretçiler, çalışma sahalarına, Yüklenicinin sorumlu personelinin refakatinde girebilirler.
- Ziyaretçiler, şantiyede bulundukları süre boyunca, Yüklenici İş Güveliği Uzmanının gerekli gördüğü ve kendilerine temin ettiği Kişisel Koruyucu Donanımları kullanmakla yükümlüdür.

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İş Sağlığı ve Güvenliği / Trafik Eylem Planı

- Şantiye sahasında hız sınırı 20km/saat
- İş Makineleri geçiş güzergahları ile yaya yolları birbirinden ayrılacaktır.
- Şantiye sahasındaki, acil toplanma alanları tabelalarla işaretlenecektir.

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15.50	**16.00**	Providing information about Occupational Health and Safety
		Ministry of Environment, Urbanization and Climate Change Occupational Safety Specialist Tülin Yıldırım gave information about Occupational Health and Safety.
16.00	**16.10**	Ministry of Environment, Urbanization and Climate Change Social Expert and Environmental Engineer made brief statements on the subject.

ANNEX 6 / Table 2. Questions and Answers from the Engagement Meeting

Participant	**Question / Comment**	**Answerer Name Surname**	**Answer**
Participant 1	Will the reinforcement manufacturing be done at the same time?	FÖ	Reinforcement manufacturing will be done in 3 groups. It will be put out to tender at 2-month intervals.
Participant 2	Will 3 groups start with 2 months intervals and all groups will be in the construction process at the same time in 4 months? Has planning been made with Kueum on this issue? Will all the buildings be evacuated?	FÖ	Yes, all groups will be out to tender at the same time. And the buildings will need to be evacuated. It would be appropriate to move the devices in the areas where the reinforcement curtain is coming.

Participant 3	What about UPSs in the Forensic Science Laboratory?	FÖ	No work has been done on UPSs. Those in areas where reinforcement manufacturing is done can be protected or moved.
Participant 4	Does the area shown as a construction site in the OHS Plan only include buildings where there are areas to be reinforced?	TY	The area shown as the construction site covers all areas where construction will be carried out and the areas where work will be carried out. Entrances and exits to these areas will be under the supervision of an OHS specialist.
Participant 5	Will there be 3 Contractors in construction that will start in 3 groups?	SN	In the normal process, it will be released in 3 groups. If the institution wishes, all of them can be released at the same time as 1 package.
Participant 6	How was the building priority determined?	SN	Similar studies were carried out in an area of approximately 1.5 million square meters. Since the Marmara Region is an earthquake zone, buildings in this area were evaluated with priority.
		BŞ	In the studies, it was determined that all buildings had energy needs. It was seen that all buildings were in the same condition in terms of ground.
Participant 7	Who will be responsible for moving equipment in the labs?	GG	It will be under the responsibility of the Institution. It was stated that it is unacceptable for the contractor to interfere in a matter in which they are not qualified. It was emphasized that this issue falls entirely under the responsibility of the Institution.
		DM	It was stated that an explanation regarding this matter was requested to be added. It was noted that if any laboratory equipment is left in any room of the building after the tender process, access to the buildings will not be permitted. This is because neither the Contractor, nor the Consultant, nor the Institution is willing to take on such responsibility. It was emphasized that after the site is handed over to the Contractor, the buildings must be completely vacated — not just the removal of desks or cabinets, but also the complete relocation of any sensitive equipment that could be damaged if moved. Otherwise, it was noted that the construction works may be delayed due to issues not caused by the Contractor.
Participant 8	It was stated that it would not be possible for all buildings to undergo reinforcement at the same time. For this, it was suggested that planning should be done with the Institution.	GG	It was stated that this process would be carried out in coordination with the Institution during the tender phase, and that there is no need for concern in this regard. Regarding the two-month delayed construction, it was emphasized that no phasing would be implemented without the prior approval of the Institution.
		SN	It was stated that the participation of the Department of Construction Affairs in this meeting may have provided answers to these questions.
Participant 9	How long will the construction period be?	Füsun Özer	It was stated that the construction period would be 10 months, and that following the completion of the construction, a one-year Defects Liability Period and the Measurement

			and Verification process would begin.

ANNEX 6 / Stakeholder Engagement Meeting Photos

ANNEX 6 /Table 3.Stakeholder Engagement Meeting Participant List (Online)

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

ANNEX 6 /Table 4.Stakeholder Engagement Meeting Participant List (Face to face)

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

Subsequent to the stakeholder engagement meeting, the PV system initially planned for the parking area has been removed from the scope of this project, as it has now been incorporated into the KAYEP Project. Within the scope of this project, a total of 263 kWp photovoltaic (PV) system will be installed on the roofs of Blocks R and H.