



ISTANBUL RESILIENCE PROJECT

ARNAVUTKÖY BOYALIK PRIMARY AND SECONDARY SCHOOL ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

APRIL 2026

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Abbreviations

ACM	Asbestos Containing Materials
AMP	Asbestos Management Plan
AoI	The Area of Influence
CERC	Contingent Emergency Response Component
CHS	Community Health and Safety
CİMER	Presidency's Communication Center
CoC	Code of Conduct
C-ESMP	Contractor Environmental and Social Management Plan
EIA	Environmental Impact Assessment
ERP	Emergency Response Plan
ESF	Environmental and Social Framework
ESHS	Environment, Social and Health and Safety
ESMF	Environmental and Social Management Framework
ESMP	Environmental and Social Management Plan
ESSs	Environmental and Social Standards
E&S	Environmental and Social
GBV	Gender-based Violence
GM	Grievance Mechanism
IMM	Istanbul Metropolitan Municipality
IPCU	Istanbul Project Coordination Unit
IRP	Istanbul Resilience Project
LMP	Labor Management Procedures
LM Plan	Labor Management Plan
MoNE	Ministry of National Education
MSDS	Material Safety Data Sheet
OHS	Occupational Health and Safety
PPE	Personal Protection Equipment
SEA/SH	Sexual Exploitation and Abuse/Sexual Harassment
SEP	Stakeholder Engagement Plan

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WB	World Bank
WHO	World Health Organization
WWTP	Wastewater Treatment Plant
YİMER	Foreigners Communication Center

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1. Executive Summary

The Istanbul Resilience Project (IRP), financed by the World Bank and implemented by the Istanbul Project Coordination Unit (IPCU), aims to enhance disaster and climate resilience in Istanbul Province by strengthening emergency preparedness, reducing disaster risks, and ensuring that critical public facilities remain fully functional during and after disasters.

The Project is structured under four components:

1. Strengthening the Emergency Preparedness and Response System
2. Enhancing the Resilience of Critical Public Buildings and Facilities
3. Project Management and Technical Assistance
4. Contingent Emergency Response Component (CERC).

Within the scope of Component 2, the reconstruction of *Arnavutköy Boyalık Primary and Secondary School in Arnavutköy, Istanbul*, has been selected as one of the subprojects to be financed within the scope of the IRP. The school building, previously assessed as structurally vulnerable, will be demolished and reconstructed in line with the highest seismic and climate resilience standards. The new facility will serve not only as an educational institution but also as a self-sufficient post-disaster shelter, ensuring continuity of critical services in the aftermath of emergencies.

Key features of the subproject include:

- **Nearly Net-Zero Quality Building:** Designed with energy-efficient systems (aligned with Turkish TS825 and IRP's Class B performance standards), renewable energy installations (such as photovoltaic panels), and enhanced generator capacity.
- **Water Security and Storage:** Equipped with additional storage tanks and rainwater harvesting systems to ensure uninterrupted water supply during disasters.
- **Emergency Preparedness:** Integration of communication systems and basic provisions (such as electricity, water, and food) during the initial period following a disaster (e.g. first 72 hours), supporting both students and surrounding communities.
- **Inclusive Design/Universal Access:** The facility will include tactile surfaces, ramps, elevators, and accessible sanitary facilities, ensuring universal access, particularly for persons with disabilities and other vulnerable groups.
- **Community Shelter Function:** The school has been designed with potential to host displaced individuals during emergencies, contributing to the post-disaster shelter capacity of Istanbul.

The environmental and social screening confirmed that the project does not fall under ineligible activities of the IRP Exclusion List and is categorized as *Moderate Risk* under the World Bank's Environmental and Social Framework (ESF). The main anticipated risks include:

- **Construction-related risks:** dust, noise, traffic disruptions, and construction waste generation.
- **Occupational Health and Safety (OHS) risks:** hazards from heavy equipment, work at height, handling of materials, and potential risks of electrical accidents during construction activities.
- **Community Health and Safety risks:** possible exposure to dust/noise and minor increases in local traffic.
- **Waste Management:** construction debris and other solid and liquid wastes will require careful monitoring, segregation, and management to ensure recycling and safe disposal in line with national regulations and the IRP Environmental and Social Management Framework (ESMF).

Mitigation measures have been developed and will be implemented in line with the IRP's Environmental and Social Management Framework (ESMF), Labor Management Procedures (LMP), and Stakeholder Engagement Plan (SEP). This site-specific Environmental and Social Management Plan (ESMP) will

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be applied to ensure compliance with Turkish regulations and the World Bank's Environmental and Social Standards (ESSs).

A dedicated Grievance Mechanism (GM) will be available for all project stakeholders, including workers and community members, to raise concerns, complaints, or suggestions related to the subproject. The GM will be accessible, transparent, and inclusive, ensuring timely responses and effective resolution. Special channels will be provided for sensitive cases, including issues related to Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH), with confidentiality and survivor-centered procedures guaranteed.

The reconstruction of Arnavutköy Boyalık Primary and Secondary School will thus contribute directly to IRP's objectives by providing a safe, resilient, green, and inclusive public facility that enhances educational continuity, protects vulnerable groups, and supports emergency response capacity in Arnavutköy and beyond.

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2. Introduction

This ESMP has been prepared for the reconstruction of Arnavutköy Boyalık Primary and Secondary School under the IRP, financed by the World Bank and implemented by the IPCU.

The purpose of this ESMP is to identify the potential environmental and social risks and impacts of the subproject and to propose appropriate mitigation and monitoring measures. The ESMP ensures that project activities are implemented in compliance with the World Bank ESF, particularly the relevant ESSs, as well as with applicable Turkish laws and regulations, including the Law on Environment No. 2872 (1983) and national labor, occupational health and safety legislation.

The mitigation measures defined in this ESMP will be included in the bidding documents, and their implementation will be ensured by the Contractor under the supervision of IPCU and the Supervision Consultant. This ESMP is a living document and will be updated as necessary during implementation to reflect site conditions, monitoring results, and stakeholder feedback.

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3. Legal and Institutional Framework

This ESMP has been developed in line with the World Bank Environmental and Social Framework (ESF) and the relevant Environmental and Social Standards (ESSs), as well as with Turkish national laws and regulations governing environment, labor, occupational health and safety, and construction.

Key applicable legislation includes the Environment Law No. 2872, the Labor Law No. 4857, the Occupational Health and Safety Law No. 6331, and related secondary regulations. In cases where discrepancies arise between national legislation and the WB's ESF, the requirement that ensures a higher level of environmental and social protection will apply.

The implementation of this ESMP will be ensured through the institutional arrangements of the IPCU, with monitoring and supervision carried out by the supervision consultant, and day-to-day compliance ensured by the contractor.

The IRP ESMF is publicly disclosed and can be accessed at the following links:

[Turkish Version](#)

[English Version](#)

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4. General Project and Project Area Information

Türkiye faces significant disaster risks due to its seismicity, urbanization, and growing population. The IRP has been designed to address these risks by strengthening critical public buildings and ensuring that they can remain operational during and after disasters. Within this framework, the reconstruction of Arnavutköy Boyalık Primary and Secondary School has been selected as one of the subprojects to be financed under *Component 2: Enhancing the Resilience of Critical Buildings and Facilities*.

The main objective of the subproject is to rebuild the school to the highest seismic and climate resilience standards, while equipping it as a self-sufficient post-disaster shelter capable of providing basic services (electricity, water, food, and communication) during the first 72 hours of a disaster. The project will therefore contribute to strengthening preparedness, supporting emergency response capacity, and ensuring continuity of education.

Construction activities will consist of new building works (excavation, reinforced concrete, finishing works, and landscaping) on the site where the former structurally weak building is currently vacant and will be demolished and cleared prior to commencement of the construction. These activities are expected to generate temporary, localized, and manageable environmental and social impacts, such as noise, dust, traffic, and waste.

Based on the current scope and applicable Turkish EIA Regulation, the subproject is not expected to be subject to a full EIA process; however, all applicable environmental, occupational health and safety, and construction management requirements will be complied with.

This ESMP has therefore been prepared as a guidance document to identify potential risks, propose mitigation measures, and ensure that construction and operation activities are carried out in line with both national regulations and the World Bank ESF.

4.1 Project Description

Subproject Title:	Reconstruction of Schools (Nearly Net-Zero Quality, Self-Sufficient Post-Disaster Facility)
Location:	Boyalık Neighborhood, Hacı Selim Ağa Street, No: 4, Arnavutköy/ İstanbul Block 156, Plot 11
Implementing Institution:	Istanbul Project Coordination Unit (IPCU)
Responsible User Institution:	Ministry of National Education (MoNE)
Site Condition:	The school building, previously assessed as structurally vulnerable, has already been fully vacated and is no longer in use. The evacuation and relocation process was completed prior to the initiation of the subproject preparation phase. All students have been reassigned and are currently continuing their education in alternative schools designated by the Ministry of National Education (MoNE), in accordance with its official procedures. Teaching and administrative staff have also been reassigned within the same framework. The transition process was centrally managed and completed by MoNE before the planned demolition activities, and therefore no ongoing relocation or transition activities remain under this subproject.
Building Information:	Planned as one block, with an approximate enclosed area of 9.971 m ²

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Estimated Cost:	The project consists of 9.971 m ² of enclosed area, and relevant authorities should develop their own cost estimations as appropriate.
Construction Period:	18 months (Approx.)

4.2 General Information and Objectives

The subproject area is located within Arnavutköy, a district on the European side of Istanbul, within the Marmara Region of Türkiye. Arnavutköy is characterized by a combination of urban, semi-urban, and rural areas, with residential neighborhoods, agricultural lands, and developing commercial zones. The district occupies a strategic position along the northern European corridor of Istanbul, with strong connectivity to major highways, the Istanbul Airport, and other metropolitan transportation networks. Historically, the area has been associated with agriculture and small-scale trade, while recent decades have seen rapid urbanization, infrastructure development, and the emergence of new residential and commercial settlements. The subproject site is situated in Boyalık Neighborhood of Arnavutköy, at Hacı Selim Ağa Street No:4, Parcel 156/11. The area is designated as a Primary Education Facility Area under the zoning plan, and the land is state-owned under the Ministry of Treasury and Finance, officially allocated to the Ministry of National Education (MoNE).

The school building will be demolished and reconstructed. Education activities for Arnavutköy Boyalık Primary and Secondary School are temporarily being carried out in a different educational building located in the Arnavutköy district, to avoid disruption during construction, in coordination with the Ministry of National Education (MoNE) and in line with its established procedures.

Building Location

The subproject area is easily accessible by local roads and is connected to Arnavutköy town center by public and private transport options.

The Area of Influence (AoI) is defined at the neighborhood scale, covering the broader built-up area in which the project site is located, including surrounding residential areas and nearby public facilities. Based on the surrounding receptors identified within the AoI, the main sensitive receptors are as follows (approx. straight-line distances):

- **Residential buildings:** The project site is located within a village-like or semi-rural area in Arnavutköy. The neighborhood reflects a semi-urban character with a mix of residential, agricultural, and local business activities.
- **Educational facilities:** No educational facilities (such as schools, dormitories, or education center) have been identified within the immediate vicinity of the project site.
- **Healthcare facilities:** No hospitals are located within the immediate AoI.
- **Religious facilities:** Key religious sites within the AoI include Boyalık Neighborhood Mosque (~170 m) and Boyalık Cemetery (~240 m) from the project site.
- **Government/public facilities:** Public facilities within the AoI include Gürtaş Yapı 5th Stage Toki Construction Site (~770 m). No other major government or public service buildings have been identified within the immediate AoI based on available information.
- **Infrastructure:** Major infrastructure within the AoI includes İSKİ Boyalık Biological Wastewater Treatment Plant (~824 m). No other major infrastructure facilities (such as water reservoirs, treatment plants, or energy facilities) have been identified in close proximity to the project site.
- **Transportation infrastructure:** No metro or railway lines are located in close proximity to the project site.

A general view of the project site is presented in Figure 1.

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Site photographs (Annex 1) — including views of the entrance, garden, and surrounding trees — as well as satellite and aerial imagery (Annex 2) and land registry records (Annex 3) are provided in the annexes to this ESMP. In addition, a location map showing the project site and nearby infrastructure is presented in Annex 2.

Annex 3 (Land Register) presents the official title deed information for the project site, including the parcel and block numbers, total land area (9.971 m²), land use designation (“Primary Education Facility Area”), and registration under the Ministry of Treasury and Finance, confirming public ownership and allocation to the Ministry of National Education for educational purposes. Annex 4 (Topographic Survey) provides detailed information on the site’s existing elevation, boundaries, and physical features, supporting the design and layout of the new school building. Annex 5 (Zoning Status Letter) includes the official confirmation of the land-use designation and verifies that the site is planned as a Primary Education Facility Area under the applicable zoning plans.



Figure 1: General View of Arnavutköy Boyalık Primary and Secondary School (Arnavutköy, Istanbul)

4.3 Subproject Description and Activities

The subproject consists of demolishing the existing structurally weak school building and reconstruction of Arnavutköy Boyalık Primary and Secondary School in Arnavutköy, Istanbul. The former school building, identified as structurally weak, will be demolished and debris will be cleared prior to the commencement of construction activities. The demolition will be financed under the subproject. The existing school building has been vacated following the decision of structural weak assessments under the coordination of the Ministry of National Education (MoNE), and is scheduled for demolition prior to construction. During the construction period, all students, teachers, administrative staff, and support personnel (including cleaning and canteen staff) continue their educational and administrative activities in accordance with the procedures of the Ministry of National Education (MoNE), ensuring continuity of education without interruption.

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The new school will be constructed as a single-block building with a total enclosed area of approximately 9.971m². It will be designed to meet the highest seismic and climate resilience standards and to function as a self-sufficient post-disaster shelter. Key design features include:

- Additional water storage capacity,
- Renewable energy systems (such as photovoltaic panels),
- Expanded generator capacity, and
- Enhanced communication systems to ensure building functionality during emergencies.

Planned construction activities include:

- Site preparation and excavation,
- Reinforced concrete and superstructure work,
- Interior and exterior finishing works,
- Landscaping and external arrangements, and
- Procurement and installation of building materials and equipment.

No new infrastructure such as transportation routes, electricity, water, or wastewater lines is required, as the site is already serviced by existing urban infrastructure.

Construction activities are expected to generate typical short-term environmental and social impacts such as dust and noise emission, generation of construction waste, increased traffic, and potential risks to community health and safety (CHS) and occupational health and safety (OHS). These impacts will be mitigated through the implementation of the measures described in this ESMP and the Contractor's Environmental and Social Management Plan (C-ESMP), ensuring compliance with relevant national regulations and the IRP ESMF.

5. Environmental and Social Management Plan

This ESMP outlines the key measures that the Contractor and other responsible parties must implement during the subproject activities to prevent, minimize, or mitigate potential environmental and social risks and impacts. It summarizes site-specific risks identified for the reconstruction of Arnavutköy Boyalık Primary and Secondary School, together with the corresponding mitigation measures, monitoring indicators and frequency, assigned responsibilities, indicative costs and the overall roles of all parties involved in project implementation.

The ESMP serves as a practical tool to ensure that all project-related risks—including environmental, occupational health and safety, community health and safety, waste management, and stakeholder engagement—are managed in line with the World Bank ESF and the relevant national legislation.

The **Supervision Consultant** will be responsible for monitoring the implementation of the mitigation measures, assessing the Contractor's environmental and social management system and performance, organizational capacity, and site-specific sub-plans. The Supervision Consultant will also review the Contractor's ESMP (C-ESMP) and provide recommendations for improvement. The **Contractor** is obliged to prepare, adopt, and implement the Contractor's Environmental and Social Management Plan (C-ESMP), based on this subproject's ESMP, **prior to the commencement of civil works**, ensuring that all environmental and social commitments are fully met.

In addition to C-ESMP, the **Contractor will prepare and submit the following** sub-management plans **for review by the Supervision Consultant and approval by IPCU:**

- Waste Management Plan
- Asbestos Management Plan
- Labor Management Plan (in line with the Project LMP)
- Occupational Health and Safety Plan (OHS Plan)
- Community Health, Safety and Traffic Management Plan
- Project-Level Stakeholder Engagement Plan (to be prepared in accordance with project SEP)
- Emergency Response Plan (ERP)
- Chance Find Procedures
- Grievance Mechanism (GM) Procedures

All sub-management plans will be submitted and approved before construction works begin and will remain in force throughout the construction period.

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Table 1 Environmental and Social Management Plan

Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
General for All Construction Works									
Environmental and Social (E&S) Management	<p>Contractor will prepare and submit for approval and subsequently implement its Contractor ESMP (C-ESMP). The C-ESMP should be submitted prior to the commencement of construction works and no construction activities will be carried out under the sub-project until it is reviewed and approved by the IPCU through support from the Supervision Consultant.</p> <p>The C-ESMP will include at least the following site-specific management plans:</p> <ul style="list-style-type: none"> • Occupational health and safety (OHS) management plan including risk assessment and emergency response plan (see the outline in ANNEX 6 and ANNEX 9 of the Environmental and Social Management Framework (ESMF) of the project) • Community health and safety (CHS) management plan including traffic management plan (see outline in ANNEX 7 of ESMF of the project) • Waste management Plan (see ANNEX 5 of ESMF of the project) • Chance Finds Procedures (see ANNEX 4 of ESMF of the project) • Labor Management Plan (to be prepared in accordance with project LMP) • Project-Level Stakeholder Engagement Plan (to be prepared in accordance with project SEP) • Grievance mechanism (GM) for both community and workers. • Asbestos Management Plan (see ANNEX 8 of ESMF of the project) 	X	X		All sub-management plans are approved prior to construction and implemented throughout the construction period		X		Contractor (Implementation) IPCU/Supervision Consultant
	<p>The Contractor shall hire or appoint full-time one environmental and social and one full-time OHS specialists prior to the commencement of construction works. The</p>	X	X		Relevant E&S staff are	X			Contractor (Implementation)

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	Contractor shall submit the CVs of specialists for approval to IPCU via Supervision Consultant. These specialists should be present at the site throughout the construction period.				mobilized and maintained throughout the construction period				Supervision Consultant
	<ul style="list-style-type: none"> The Contractor will prepare a training program and provide training to all its staff, before they start working on site, on basic environmental, social, health and safety (ESHS) risks associated with the proposed construction works and the workers' responsibility. The training program shall be repeated on quarterly basis. The Contractor's quarterly training program will also cover topics related to Code of Conduct (CoC) such as sexual harassment particularly towards women and children, violence, including sexual and/or gender-based violence and respectful attitudes while interacting with the local community. 	X	X		Training program approved and all relevant staff trained Training records		X		Contractor (Implementation) Supervision Consultant
Resource Efficiency and Pollution Prevention	<p>To address the identified risks and enhance resource efficiency and pollution prevention, the following measures will be implemented:</p> <ul style="list-style-type: none"> Ensure that all retrofitted buildings achieve at least Turkish Class C Energy Performance Certification standards (TS825) and all newly constructed buildings achieve at least Class B. Integrate renewable energy systems, such as solar panels, to reduce energy consumption and ensure operational continuity during disasters. Install water-saving systems, including low-flow toilets, efficient taps, and showerheads, and implement rainwater harvesting and greywater reuse where feasible and/or applicable. Reuse demolition materials (e.g., debris as filling material) and ensure high percentage of recycling of iron and other recyclable materials. 	X	X		Compliance with energy and water efficiency standards, proper waste and pollution management , implementation of nature-based solutions,			X	Contractor (Implementation) Supervision Consultant

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<ul style="list-style-type: none"> Enhance green infrastructure by creating parks, green roofs, and vegetative buffers to manage stormwater, mitigate urban heat effects, and conserve biodiversity where feasible and/or applicable. Regularly monitor and evaluate the performance of nature-based solutions to ensure their long-term effectiveness. The areas where waste management will be carried out during the operation process should be determined at the planning stage. Conduct a tree survey during the planning phase to identify and document existing trees on the site, ensuring protection and conservation of mature trees wherever possible. Tree planting and the use of fire-resistant native plant species in landscaping projects can mitigate urban heat island effects while supporting ecological functions. Nature-based solutions, such as rainwater gardens and permeable surfaces, can reduce runoff, recharge groundwater, and enhance local ecosystems. 				and stakeholder feedback resolution				
Air Pollution (Dust and Exhaust)	<ul style="list-style-type: none"> Minimize dust from exposed work sites by applying water on the ground regularly during the dry season. Construction debris shall be kept in a controlled area and sprayed with water mist to reduce debris dust especially during the dry season Keep stockpiles of aggregate materials covered to prevent suspension or dispersal of fine soil particles during windy days or disturbances by stray animals. In case of pneumatic drilling during excavation, dust shall be suppressed by ongoing water spraying and/or construction dust screen enclosures at the site. The surrounding environment, such as roads, shall be kept free of debris to minimize dust. Trucks transporting excavated materials or construction waste shall have their loads securely covered to prevent dust and 		X		Visual inspection of air quality control measures Records of maintenance Records of complaints	X			Contractor (Implementation) Supervision Consultant

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	spillage during transit. <ul style="list-style-type: none"> There shall be no open burning of construction or waste materials at the site. 								
Noise	<ul style="list-style-type: none"> Limit construction activities to hours specified by national regulations, and coordinate with nearby communities to schedule noisy tasks during times that cause minimal disturbance. During operations, equipment will be placed as far away from residential/community areas as possible. All equipment will be maintained to keep it in good working order by manufacturing maintenance procedures and installing acoustic enclosures around generators to reduce noise levels. Use when needed and feasible noise-control methods such as fences, barriers or deflectors (such as muffling devices for combustion engines or planting of fast-growing trees) Avoid the unnecessary use of alarms, horns and sirens. Minimize project transportation through community areas. Maintain a buffer zone (such as open spaces, rows of trees or vegetated areas) between the project site and residential areas to lessen the impact of noise to the living quarters. Noise measurements shall be conducted if any grievance regarding noise generation is received from the nearest receptors. If measured levels are above limit values, mitigation measures shall be enhanced in this respect, i.e., installing acoustic barriers for mechanical equipment, limiting the hours of operation for specific pieces of equipment or operations, etc. 		X		Visual inspection of noise control measures Records of complaints	X			Contractor (Implementation) Supervision Consultant
Health and Safety	When planning activities, discuss steps to avoid people getting hurt. It is useful to consider: <ul style="list-style-type: none"> Construction place: Are there any hazards that could be removed 	X			Visual inspection	X			Contractor (Implementation)

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
OHS-related risks due to unsafe practices and hazards at work sites such as work at height, rotating and moving equipment, electrical safety, working with hazardous material, etc.	<p>or should warn people about?</p> <ul style="list-style-type: none"> The people who will be taking part in construction: Do the participants have adequate skill and physical fitness to perform their work safely? The equipment: Are there checks you could do to make sure that the equipment is in good working order? Do people need any particular skills or knowledge to enable them to use it safely? Electricity Safety: Do any electricity good practices such as the use of safe extension cords, voltage regulators and circuit breakers, labels on electrical wiring for safety measures, awareness on identifying burning smells from wires, etc. apply at the site? Is the worksite stocked with voltage detectors, clamp meters and receptacle testers? 				Employee records				Supervision Consultant
	<ul style="list-style-type: none"> Appropriate signposting of the construction sites will inform workers of key rules and regulations to follow. The contractor's OHS specialist will provide a brief daily toolbox talk to the construction workers on ESHS risks associated with the construction activity that will be carried out on that particular day. The Contractor will ensure a safe working environment for the workers and before construction activities will supply appropriate personal protective equipment (PPE) in line with international best practice and Turkish Legislation (hard hats, gloves, dust masks, goggles, harnesses and safety boots, etc.). All activities will be implemented in line with both the Law on Occupational Health and Safety (Official Gazette No: 28339, dated June 30, 2012) and its relevant regulations and also with the World Bank Group EHS Framework. The Contractor will Immediately notify the IPCU (through supervision consultants) about any serious incident which may have significant adverse effects on the environment, the affected 	X			Visual inspection of control measures				Contractor (Implementation) Supervision Consultant
				OHS records	X				
					Employee records				
					Incident statistics and records, including near misses				

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<p>communities, the public or workers. Then, IPCU will notify the World Bank about any serious incident in 48 hours and send an incident investigation report together with the root-cause analysis and corrective action plan no later than 10 days to the World Bank.</p> <ul style="list-style-type: none"> • Keep the worksite clean and free of debris on a daily basis. • The first aid kit should be equipped with bandages, antibiotic creams, etc. or delivered to health institutions. • Following safety guidelines for the storage, transport, and distribution of hazardous materials aiming to minimize the potential for misuse, spills, and accidental human exposure. • Keep corrosive fluids and other toxic materials in properly sealed containers for collection (considering its MSDS) and disposal in properly secured areas. • Ensure structural openings are covered/protected adequately. • Secure loose or light material that is stored on roofs or open floors. • Keep hoses, power cords, welding leads, etc. from laying in heavily travelled walkways or areas. • During heavy rains or emergencies of any kind, suspend all work. • Follow the below measures for construction involving work at height: <ul style="list-style-type: none"> • Do as much work as possible from the ground. • Do not allow people with the following personal risks to perform work at height tasks: eyesight/balance problem; certain chronic diseases – such as osteoporosis, diabetes, arthritis or Parkinson’s disease; certain medications – sleeping pills, tranquilizers, blood pressure medication or antidepressants; recent history of falls – having had a fall within the last 12 months, etc. • Only allow people with sufficient skills, knowledge and experience to perform the task. 				Records of worker’s complaints				

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<ul style="list-style-type: none"> • Check that the place (e.g., a roof) where work at height is to be undertaken is safe. • Take precautions when working on or near fragile surfaces. • Clean up oil, grease, paint, and dirt immediately to prevent slipping in accordance with Emergency Response Plan; and • Provide fall protection measures e.g. safety harness, and simple scaffolding/guard rail for works over 4 meters from the ground. • The contractor shall hire trained operators for the safe operation of specialized construction’s vehicles 								
<p>Community Health and Safety</p> <p>Community health and safety risks associated with construction activities, including health issues arising from exposure to waste, stagnant water, wastewater, particulate matter, and construction workers, as well as traffic and road-related risks caused by increased traffic volume and the movement of heavy-duty vehicles due to inadequate</p>	<ul style="list-style-type: none"> • Rope off construction area and secure materials stockpiles/ storage areas from the public and display warning signs including at unsafe locations. • Do not allow the entrance of unauthorized person in construction areas. • Regularly drain stagnant water from construction areas to prevent the breeding of mosquitoes and other disease vectors. • Use covered and sealed storage for wastewater to prevent leaks and odors, while maintaining safe drainage systems to avoid contamination of nearby water bodies. • Provide clean and well-maintained sanitation facilities for workers, including toilets and washing stations. • The construction site security personnel must be trained and officially certified. • Control the driving speed of vehicles particularly when passing through a community or nearby school, health center or other sensitive areas. • If school children are in the vicinity, include traffic safety personnel to direct traffic during school hours, if needed. • The project site must be lit during the night. • The surrounding construction area should be kept clean, without 		X		<p>Visual inspection of control measures</p> <p>Traffic accident records</p> <p>Records of complaints</p>	X		<p>Contractor</p> <p>Consultant (Supervision)</p>	

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
construction and traffic management.	<p>waste disposed of there. The broken glass should be cleaned immediately to avoid any fires.</p> <ul style="list-style-type: none"> • Following safety guidelines for transportation of hazardous materials to the site aiming to minimize the potential for spills and accidental human exposure due to traffic accidents. • Effective communication systems are needed to inform communities about project activities, potential risks, and emergency procedures. • Regular maintenance such as periodical control of vehicles to minimize potentially serious accidents caused by equipment malfunction or premature failure. • The public will be informed about the work to be carried out, including the measures taken regarding communicable diseases relating to labor influx and -post-disaster context (i.e., infectious disease outbreaks), using appropriate communication tools and methods (e.g., online/virtual and/or physically) in areas accessible to all stakeholders (including work sites). • In case of any epidemic or pandemic / communicable disease, including infectious disease outbreaks, the guidance, guidelines, and recommendations to be provided by the Ministry of Health, the Ministry of Family and Social Services, the Ministry of Labor and Social Security, and the World Health Organization (WHO) will be followed, and all relevant measures will be taken for both employees and workplaces in terms of OHS and CHS. In addition, all construction works will follow the World Bank guidelines to minimize the risk of infectious disease outbreaks transmission during the execution of civil works. • Include evacuation protocols, first aid training, and clear communication strategies in the ERP to protect community health and safety. • Any traffic diversions should take into account the needs of 								

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<p>disabled persons.</p> <ul style="list-style-type: none"> The Contractor will ensure the construction site is properly secured and construction-related traffic regulated properly (including proper route planning). This will include but not be limited to: Signposting, warnings, barriers, and traffic diversions: the site will be visible, and the public warned of all potential hazards. Traffic management system and staff training, especially for site access and near-site heavy traffic. Provision of safe passages and crossings for pedestrians where construction traffic interferes. Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement. Active traffic management by trained and visible staff at the site, if required for a safe and convenient passage for the public. 								
<p>Water Quality and Wastewater: Water pollution in nearby surface waters due to wastewater/waste generated at the construction area due to construction activities</p>	<ul style="list-style-type: none"> The site will establish appropriate erosion and sediment control measures such as e.g. hay bales and/or silt fences to prevent sediment from moving off-site and causing excessive turbidity in nearby surface waters. Minimize storage or disposal of generated wastewater on the site. Temporary or final waste disposal and wastewater discharge without treatment near/in surface waters is strictly forbidden to prevent possible adverse impacts on surface waters. No soiled materials, solid wastes, toxic or hazardous materials should be stored in, poured into or thrown into water bodies for dilution or disposal. Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface waters. Wastewater generated at the construction site will be connected to the sewerage system, if possible, and approved by local 		X		Visual inspection of control measures Septic tank effluent disposal records (if any) Effluent quality measurement records (if any) Records of complaints	X		Contractor <i>(Implementation)</i> Supervision Consultant	

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<p>authorities. If this is not possible, it will be deposited in the septic tank that will be impervious, in accordance with “Regulation on Pit Opening Where Sewer System Construction is not Applicable” published in Official Gazette No: 13783 dated 19.03.1971. Toilets with temporary septic tank might be used for this purpose as well. Septic tank effluent will be removed periodically by sewage trucks, and disposal will be provided within the scope of the protocol to be made with the relevant municipality that has a licensed wastewater treatment plant (WWTP). The Protocol will be submitted to the IPCU.</p> <ul style="list-style-type: none"> • Activities should not affect the availability of water for drinking and hygienic purposes. • The flow of natural waters should not be obstructed or diverted in another direction, which may lead to the drying up of river beds or flooding of settlements. • Separate concrete works in waterways and keep concrete mixing separate from drainage leading to waterways. 								
<p>Soil and Groundwater Quality: Soil and groundwater pollution due to improper waste management and accidental spills, and soil erosion</p>	<ul style="list-style-type: none"> • Apply the mitigation measures specified in the “Solid and Hazardous Waste” section for proper waste management. Residual (left out) concrete in concrete mixers will not be allowed to wash out into the construction site, its vicinity, or access roads of construction sites. Related trainings will be provided to concrete mixer drivers. • Hazardous and chemicals and materials will be secured in a designated storage area to prevent spillage and tip-over. • Semi-used chemical-containing containers will have lids and lids will be tightened while they are not in use. • In case of a spill of any hazardous material or hazardous wastes, spill prevention methods mentioned in ERP will be put in place in order to limit the exposure area. Workers who might intervene in such incidents should have relevant trainings on emergency 		X		<p>Visual inspection of control measures Incident records Training records Records of complaints</p>	X			<p>Contractor <i>(Implementation)</i> Supervision Consultant</p>

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<p>response to spills.</p> <ul style="list-style-type: none"> • Proper spill kits will be placed at appropriate locations in the construction area. • Schedule construction during the dry season, as appropriate. • Contour and minimize the length and steepness of slopes. • Cover with topsoil and re-vegetate (plant grass, fast-growing plants/bushes/trees) construction areas quickly once work is completed. 								
<p>Waste Management EHS risks due to inappropriate management of waste generated due to construction activities (such as construction demolition wastes, hazardous waste, biodegradable waste, recyclable waste, non-hazardous waste, etc.)</p>	<ul style="list-style-type: none"> • Excavation soil, construction and demolition waste Dumping Permit must be obtained from the Municipality. • Excavation waste will be re-used for backfilling purposes as much as possible and recovery and other re-use options will be considered as appropriate (except asbestos or asbestos-containing waste). • Recycling and reusing materials during demolition and construction reduces demand for raw natural resources, indirectly supporting sustainable management practices. • The excess excavation waste shall be transported and disposed of separately by licensed transport vehicles to existing licensed excavation waste storage area(s), identified by the relevant governmental authorities, in the district/region. • On-site storage of wastes prior to final disposal (including earth dug for foundations) should be at least 300 meters from rivers, streams, lakes and wetlands. • After each construction site is decommissioned, all debris and waste shall be cleared. • Keep the records of waste generation and disposal. 	X	X		<p>Visual inspection of control measures Waste generation and disposal records Training records Records of complaints</p>	X			<p>Contractor (Implementation) Supervision Consultant</p>
	<ul style="list-style-type: none"> • Manage wastes in accordance with the waste management hierarchy (prevent, reduce, reuse, recycle, recover, dispose) and train personnel to raise awareness on waste management. 								

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<ul style="list-style-type: none"> • Temporarily storage on site of all hazardous or toxic substances will be in safe containers labelled in line with Material Safety Data Sheet (MSDS), with details of composition, properties, and handling information. • Segregate waste as recyclable, hazardous and non-hazardous waste. • Non-hazardous wastes, inert and biodegradable wastes and also recyclables must be collected separately, and special attention must be paid to prevent hazardous wastes in leak-proof container to prevent spillage and leaching in case of mixing with other types of waste. • Collect, store and transport waste to appropriately designated /controlled licensed disposal areas/facilities (such as excavation waste storage areas, sanitary landfills, recycling/recovery facilities, etc.). Submit an official letter to IPCU stating that these wastes will be accepted at licensed sites • Temporary waste storage area (to be established at the construction area) should be on impermeable ground, covered with a roof, and equipped with a suitable drainage system, proper spill kits and appropriate firefighting equipment. Wastes shall be temporarily stored in this area in separate compartments (labelled with waste codes) according to their types in order not to react with each other. Hazardous wastes shall be stored in the temporary waste storage area for a maximum of six (6) months and non-hazardous wastes for a maximum of one year. • Hazardous waste shall be transferred to a licensed disposal facility via licensed waste transportation companies, and recyclable wastes to a relevant licensed recycling/recovery facility. All protocols and waste logs shall be submitted to the IPCU. • Train workers on correct transfer and handling of fuels and other 								

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	substances and require the use of gloves, boots, aprons, eyewear and other protective equipment for protection in handling highly hazardous materials.								
<p>Stakeholder Engagement and Grievance Mechanism</p> <p>Construction-related complaints and temporary disruption to the local community including eligible property owners</p>	<ul style="list-style-type: none"> Follow the relevant measures suggested in the SEP. Early liaison and effective communication shall be carried out with people who may be affected by the work of the contractor and supervision consultant. Implementation of a program of ongoing liaison and respect for the local environment and residences shall be formed The supervision consultant will appoint a dedicated person(s) accountable for community liaison who will be focused on engaging with the community to provide the appropriate information and to be the first line of response to resolve issues of concern. The Project Grievance Mechanism shall be implemented through the opening and closing of forms and complaints. The names and contact telephone numbers and e-mail addresses of all site personnel with responsibilities for both supervision and management of the works will be displayed on the site information boarding. Once planning consent has been obtained, formal contact will be established with the mukhtar of the neighborhood and those who could potentially be affected by the construction will be informed via mukhtar. This will include consultation with relevant E&S risk management instruments and identifying any particularly sensitive times of the day. Outside normal working hours, security personnel will act as the main point of contact via a dedicated phone number. Security will alert the person(s) accountable for liaison if necessary (available 24 hours). All workers will sign/commit to and be trained on the Code of 	X	X		Records of complaints Stakeholder engagement records	X		<p>IPCU</p> <p>Contractor (Implementation)</p> <p>Supervision Consultant</p>	

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<p>Conduct to manage the potential adverse impacts on social cohesion and Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH) risks.</p> <ul style="list-style-type: none"> Any complaints will be logged, fully investigated, and responded to quickly, advising what action has been taken. Complaints will be registered and reported to the Contractor, Training Consultant, Supervision Consultant and also IPCU. Public notice boards will be established at site entrances during the Planning and Construction phases, providing relevant contact details of the for liaison including environmental matters. 								
<p>Labor and Working Conditions: Risks associated with potential labor influx (such as child labor risks, gender-based violence and harassment, human rights risks, etc.) and other labor issues</p>	<ul style="list-style-type: none"> Follow the relevant measures in Labor Management Plan (LM Plan) to be prepared by the Contractor in accordance with project LMP. Workers will be provided with information and documentation that is clear and understandable regarding their terms and conditions of employment such as their rights under national labor and employment law (which will include any applicable collective agreements). Workers will be paid on a regular basis as required by national law and project LMP. Workers will be provided with adequate periods of rest per week, annual holiday and sick, maternity and family leave, as required by national law and project LMP. Workers will receive written notice of termination of employment and details of severance payments in a timely manner. Workers will be employed on the principle of equal opportunity and fair treatment, and there will be no discrimination with respect to any aspects of the employment relationship. Project workers, including specific groups of workers, such as women, people with disabilities and migrant workers will be 		X		<p>Visual inspection of control measures</p> <p>Health records</p> <p>Employee records</p> <p>Training records</p> <p>Records of worker's complaints</p>	X			<p>Contractor (Implementation)</p> <p>Supervision Consultant</p>

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<p>provided with appropriate measures of protection and assistance in line with ESS2 of WB ESF. This process will be executed in accordance with the project LMP.</p> <ul style="list-style-type: none"> Workers are allowed to participate, or seek to participate, in workers' organizations and collective bargaining or alternative mechanisms. Children under the minimum age of 18 will not be employed or engaged by the Contractor in connection with this sub-project. Forced labor, which consists of any work or service not voluntarily performed that is exacted from an individual under threat of force or penalty, will not be used in connection with this sub-project. Prior to commencement of any activities at the project site, a worker's GM will be established by the Contractor at the construction site for all workers to raise workplace concerns. Contact details of the worker's GM will be provided to workers during the induction training. All workers will receive training about their rights under national labor and employment law and regarding the GM upon recruitment and before the implementation of the work. Code of Conduct will be shared with project workers during employment. All workers are obliged to comply with the Code of Conduct and sign relevant documentation at the time of employment. Movement in and out of the construction site will be controlled, and unauthorized access to the site will be prevented. Contractor will confirm that workers are fit for work before they start work, paying special attention to workers with underlying health issues or who may be otherwise at risk. The Contractor shall provide information and awareness of communicable diseases to workers. 								

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
	<ul style="list-style-type: none"> The Contractor shall arrange safe drinking water, adequate toilet facilities for both genders, accommodation, rest and dining areas for the workers. The Contractor shall provide a first aid kit with bandages, antibiotic cream, etc. or health care facilities, and shall identify and train an adequate number of workers to provide first aid during medical emergencies. 								
Cultural Heritage Chance Find	<ul style="list-style-type: none"> Effective communication with local authorities, heritage organizations, and the community will ensure proper handling of any cultural heritage No disturbance of cultural or historic sites. If encountered with any cultural heritage/assets during construction works (especially excavation and earthworks) apply the chance finds procedure (see Error! Reference source not found. of ESMF of the project). 	X	X		Chance finds records		X	IPCU Contractor <i>(Implementation)</i> Supervision Consultant	
Biodiversity: Potential risks to flora and fauna due to construction activities and improper waste management	<ul style="list-style-type: none"> According to Planned Areas Development Regulations (published in the Official Gazette dated July 03, 2017, and numbered 30113 and Attachment: RG-31/12/2022-32060) for residential, trade, tourism, education, worship, health, and sports parcels: 1 tree per 30 m² of area outside the building footprint. If planting on the parcel is not feasible, trees must be planted in designated public areas per zoning plans Tree planting and the use of fire-resistant native plant species in landscaping projects can mitigate urban heat island effects while supporting ecological functions 		X		Tree plantation records Screening Visual inspection of control measures		X	Contractor (Implementation) Supervision Consultant	
Asbestos Management: Environmental, health and safety	<ul style="list-style-type: none"> If asbestos or asbestos containing materials (ACM) are found at a construction site, they should be clearly marked as hazardous waste and managed according to a comprehensive Asbestos Management Plan (AMP). 		X		Visual inspection of control measures		X	Contractor (Implementation) Consultant (Supervision)	

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Potential Risks and Impacts	Proposed Mitigation Measures	Phase			Indicators for monitoring	Frequency of Monitoring			Responsibility for implementation and monitoring
		Planning	Construction	Operation		Continuous	Monthly	Quarterly	
risks due to asbestos or asbestos-containing materials	<ul style="list-style-type: none"> • The AMP should outline detailed procedures for the safe handling, containment, removal, and disposal of ACM, ensuring compliance with local and international regulations. • The asbestos should be appropriately contained and sealed to minimize exposure. • Prior to removal, if removal is necessary, ACM should be treated with a wetting agent to minimize asbestos dust. • If ACM is to be stored temporarily, it should be securely placed inside closed containers and clearly labelled. 				Asbestos or ACM removal records				

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6. Roles and Responsibilities

The activities to be carried out under the Site-Specific Environmental and Social Management Plan (ESMP) and the parties responsible for these activities are presented in Table 2.

Table 2 Roles and Responsibilities

Responsible Party	Roles and Responsibilities
IPCU	<ul style="list-style-type: none"> • Hire/appoint one environmental, one social, and one OHS specialist to ensure the effective management and monitoring of environmental, social, and OHS risks in compliance with project requirements. • Through its environmental, social and OHS specialists; <ul style="list-style-type: none"> - Coordinate closely with local authorities, contractors, and community leaders to ensure alignment with project goals, environmental and social requirements, and stakeholder expectations. - Develop and maintain a centralized database to track the implementation of environmental and social mitigation measures, grievances, and monitoring data, ensuring accessibility and up-to-date information for reporting to the World Bank and other stakeholders. - Provide oversight, support, and quality control for field staff and contractors working on environmental and social risk management. - Ensure subprojects are screened against the Exclusion List (Table 5 of ESMF of the project). - Prepare E&S Screening Forms for each of the subprojects and submit them to the WB for approval. - For activities requiring ESMPs, prepare site-specific ESMPs by customizing the project level ESMP (Annex-3 of ESMF of the project) and submit at least first five (5) ESMPs for prior review and no objection by the WB for disclosure and consultation purposes. - Disclose and consult upon the WB cleared version of the site specific ESMPs prior to the initiation of the tendering process. Following the consultations, update the site-specific ESMPs to incorporate the outcomes of the consultations and submit it to the WB’s clearance for tendering purposes. - Ensure all tender, bidding and contract documents include relevant E&S management provisions and references to relevant E&S instruments (i.e. ESMPs, SEP, LMP, etc.). - Ensure site-specific ESMPs are annexed to the relevant tendering documents. • Train central and field staff, as well as contractors, on implementing the ESMF and associated plans. • Prior to commencement of civil works, review and approve C-ESMP, LM Plan and E&S sub-management plans to be prepared by the contractor and ensure their implementation throughout the duration of subproject implementation. <ul style="list-style-type: none"> - Visit and monitor E&S performance of construction sites monthly and maintain all correspondences with governmental authorities. - Establish and maintain a grievance mechanism and resolve complaints at all levels. - Notify the World Bank of any serious E&S incidents within 48 hours and provide incident reports with root cause analysis and corrective actions within 10 days. - Oversee the implementation and monitoring of environmental and social mitigation measures.

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	<ul style="list-style-type: none"> - Maintain documentation of progress and prepare consolidated reports for submission to the World Bank on a quarterly basis.
<p>Supervision Consultants (Construction)</p>	<ul style="list-style-type: none"> • Overseeing daily implementation and monitoring of environmental, social and health and safety (ESHS) mitigation measures, and report progress and ESHS performance of the sub-projects to the implementing IPCU monthly. • Ensure contractors comply with legislation, site-specific ESMPs and relevant E&S sub-management plans. • Maintain one OHS specialist and one Environmental and Social Specialist with relevant certification and/or experience in charge of E&S management, in line with the implementation arrangements defined in the Supervision Consultant’s Terms of Reference and the specific needs of the sub-project. • Daily on-site monitoring of the implementation of E&S mitigation measures will be carried out by the Contractor’s designated E&S personnel and verified through regular site visits by the Supervision Consultant. The IPCU will exercise oversight through review of site records, supervision reports, and monthly consolidated E&S performance reports submitted in Section 5.1.c. of IRP ESMF. • Prior to commencement of any construction works on site, in coordination with IPCU, review and approve C-ESMP, LM Plan and E&S sub-management plans prepared by the contractor and ensure their implementation throughout the duration of subproject implementation. All approved documents will be submitted to IPCU within 5 business days. Any deficiencies or non-compliances identified by IPCU will be communicated to the contractor by the supervisor, and the contractor will be required to address them within 15 business days. • Provide training to contractors on E&S and OHS measures. • In close collaboration with the IPCU, ensure effective implementation of the SEP at the site level. • When/where relevant, address grievances received from the stakeholders. • Inform the IPCU about serious E&S (including OHS) incidents immediately.
<p>Contractors</p>	<ul style="list-style-type: none"> • Prior to commencement of any civil works prepare C-ESMP, LM Plan and relevant E&S sub-management plans and submit these documents to the IPCU for their review and approval. • Maintain one full-time OHS specialist and one full-time Environmental and Social Specialist with relevant certification and/or experience in charge of E&S management throughout the construction period, in line with the staffing arrangements defined in the IRP ESMF and reflected in Table 1 and Table 3 of this ESMF. • Ensure implementation of and compliance with the Project’s environmental and social mitigation measures as outlined in the C-ESMP, LM Plan and relevant E&S sub-management plans, and contract documents, and ensure adherence to national and local legislation. • Address construction-related grievances as per the GM procedure described in the Project SEP and escalate unresolved issues to Supervision Consultants/IPCU immediately. • Notify Supervision Consultant/IPCU through of any serious E&S incidents immediately. • Monitor site activities on daily basis and report on the E&S performance to supervision consultants/IPCU on monthly basis. • Provide regular training and capacity-building sessions for the workforce on, but not limited to, E&S risk management (labor rights and obligations under the LMP, Stakeholder engagement practices based on SEP requirements, ERP, OHS plan, community safety and traffic management plan, waste management plan, Code of Conduct, etc.)

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7. Capacity Building and Training

The Contractor shall design and implement a structured training program for all project workers and relevant stakeholders. At a minimum, the following trainings will be delivered and repeated periodically:

- Environmental and Social Management & Occupational Health and Safety Induction Training – for all workers before starting site activities.
- Site Access and Orientation Training – including induction for visitors and orientation for newly mobilized workers.
- Traffic and Pedestrian Safety Training – covering movement of heavy vehicles, safe pedestrian crossings, and community-sensitive driving practices.
- Code of Conduct Training – addressing respectful workplace practices, sexual harassment prevention, and interaction with local communities.
- Gender-Based Violence (GBV), Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH) Training – focusing on awareness, prevention, and survivor-centered response.
- Waste Management Training – segregation, storage, transport, and safe handling of construction and hazardous wastes.
- Emergency Preparedness and Response Training – including fire safety, evacuation drills, spill response, and first aid.
- Incident and Accident Reporting Training – procedures for immediate notification, root cause analysis, and corrective actions.
- Grievance Mechanism (GM) Training – how workers and community members can access and use the GM system.
- Stakeholder Engagement and Communication Training – for E&S staff and supervisors to ensure meaningful interaction with local communities.

The Contractor is responsible for organizing and financing these trainings, either internally or through external certified providers.

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8. Implementation Schedule and Cost Estimates

An indicative cost schedule has been prepared for the mitigation and capacity building measures to be implemented throughout the Project.

Table 3 Indicative ESMP Implementation Budget¹

Activity/Cost Item	Potential Cost (USD)
Full-time Environmental, Social & OHS Consultants	80.000,00 USD
Monitoring / Site Visits / C-ESMP Preparation	10.000,00 USD
Trainings, Awareness, Capacity Building	15.000,00 USD
Implementation of SEP & ESMP Measures	10.000,00 USD
Communicable Disease Prevention	5.000,00 USD
TOTAL	120.000,00 USD

¹ These indicative costs are covered under the Project budget and provided for planning purposes. Contractors shall reflect their own implementation costs in their bids.

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9. Stakeholder Engagement and Grievance Mechanism

Stakeholder engagement is an inclusive and continuous process to be carried out throughout the Project lifecycle. It supports the establishment of strong, constructive, and responsive working relationships and is essential for the successful management of the Project's environmental and social (E&S) risks and impacts.

Within the scope of the Istanbul Resilience Project (IRP), a Stakeholder Engagement Plan (SEP) has been prepared to guide structured engagement with stakeholders, including the management and users of potentially affected or directly benefiting buildings. The SEP facilitates the management of stakeholder expectations and risks, helps reduce potential conflicts and delays, and ensures early, frequent, and transparent communication.

The SEP also establishes accessible and inclusive tools for affected people to raise concerns, suggestions, and grievances, enabling the Istanbul Project Coordination Unit (IPCU) and other responsible institutions to respond and manage issues effectively.

During project preparation, consultation meetings were organized with representatives from public institutions, local authorities, school administrations, teachers, parents, and community members. In these meetings, the Project's financing sources, objectives, components, and eligibility criteria for building selection were presented. The concerns, questions, and feedback of participants were documented and reflected in the SEP.

Following the disclosure of the draft version of this site-specific ESMP on 01 April 2026, a public consultation meeting was held on 09 April 2026 at 10:30 in relation to the Arnavutköy Boyalık Primary and Secondary School subproject. The meeting took place at Boyalık Neighborhood Head Office Building, Arnavutköy, Istanbul, and was organized in line with the stakeholder engagement and information disclosure standards of the IRP.

The invitation to the meeting was formally conveyed through the Provincial Directorate of National Education, as the beneficiary institution of the subproject, via an official letter presented in Annex 6. In addition, a public announcement was made through the IPCU's official website and to ensure broader stakeholder awareness and participation, as shown in Annex 7.

The consultation meeting was attended by District Director of National Education, the School Principal, the neighborhood headman (muhtar), and local community members. A total of 51 participants attended the meeting, comprising 18 women and 32 men, based on the participant list prepared for the event. As the school, the muhtar's office, and most of the town are located within walking distance, no specific transportation arrangements were required for participants to attend the meeting. The minutes of the meeting are provided as Annex 8 to this site-specific ESMP.

During the meeting, participants were informed about the IRP and the key environmental and social aspects of this site-specific ESMP. In addition, the IPCU architect presented the project visuals, including the site layout, school access and circulation arrangements, and floor plans. The presentation also covered the new technical and resilience-enhancing features of the building, such as natural ventilation solutions, rooftop photovoltaic panels for electricity generation, and rainwater harvesting and storage systems, along with their intended uses. Furthermore, it was explained that the generator capacity will be increased to support uninterrupted operation during emergencies, electrical outlets will be provided for public use, manholes will be installed in landscaped areas to enable the connection of portable toilets and showers when needed, and designated areas can be converted into a dining facility to support emergency response and shelter functions. The presentation materials used for the subproject-specific ESMP briefing and the Arnavutköy Boyalık Primary and Secondary School Reconstruction Project Design presentations are provided in Annex 9 and Annex 10, respectively. Photographs taken during the information and consultation meeting are presented in Annex 11.

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Participants raised a range of questions and comments primarily related to potential basement flooding risks, possible administrative delays in the implementation process, school layout and internal connectivity, post-construction defect management, and material selection for long-term maintenance. Specific concerns included the risk of flooding due to elevation differences, the potential impact of World Bank procedures on the project timeline, the functional relationship between primary and secondary school sections, and the procedures for addressing technical issues after completion. In addition, participants emphasized the importance of using high-quality and maintainable materials, with a preference for suitable domestic alternatives to ensure sustainable maintenance within the school's budget.

The key issues raised during the consultations were systematically assessed by the project team and, where relevant and technically feasible, incorporated into the final design documentation.

All questions were addressed by the project team and the design consultant during the meeting, with explanations provided in line with applicable regulations, institutional responsibilities, and project scope. Where relevant, follow-up considerations were noted to support continued coordination during the design and implementation stages. Overall, no objections to the subproject were expressed, and stakeholders demonstrated general support for the reconstruction, particularly acknowledging the school's enhanced safety standards, inclusive design approach, and resilience features.

Attendance sheets and participant records were collected with wet signatures and are securely archived by the IPCU in compliance with the Law on the Protection of Personal Data (KVKK). These records are retained solely for project documentation, monitoring, and audit purposes and are not publicly disclosed.

A dedicated Grievance Mechanism has been established to ensure that any grievances or requests related to subprojects financed under the IRP—raised by contractors, supervision staff, building users, or the community—are addressed in a timely, effective, and fair manner. The GM operates through multiple accessible channels, as detailed below:

Project-Specific Channels (IPCU)

- **Hotline (phone):** +90 (216) 505 55 00 (during working hours)
- **E-mail:** info@ipkb.gov.tr
- **Postal Address:** Istanbul Project Coordination Unit (IPCU), Kısıklı Mah. Alemdağ Yan Yolu Cad. No:6, 34692 Üsküdar/İstanbul
- **In-person:** Stakeholders may visit IPCU offices during working hours
- **Online Grievance/Suggestion Form:** <https://www.ipkb.gov.tr/sikayet-formu/>
- **Social Media Channels:**
 - Twitter: <https://x.com/ipkbgovtr>
 - Facebook: <https://www.facebook.com/ipkbgovtr>
 - Instagram: <https://www.instagram.com/ismepipkb/>
 - LinkedIn: <https://www.linkedin.com/company/ipkb>
 - YouTube: <https://www.youtube.com/user/IPKBirimi>
- **On-site Complaint/Suggestion Boxes:** These will be established at project sites and IPCU offices, once activities commence on site, ensuring anonymity and confidentiality.

National Channels

- **CİMER (Presidency's Communication Center):**
 - Website: www.cimer.gov.tr
 - Call Center: 150
 - Phone: +90 (312) 590 20 00

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- Fax: +90 (312) 473 64 94
- Mail: Presidency of the Republic of Türkiye Directorate of Communications
- In-person: Through provincial/district governorates and ministries
- **YİMER (Foreigners Communication Center):**
 - Website: www.yimer.gov.tr
 - Call Center: 157
 - Phone: +90 (312) 157 11 22
 - Fax: +90 (312) 920 06 09
 - E-mail: yimer@goc.gov.tr
 - In-person: At Directorate General of Migration Management offices
- **Istanbul Metropolitan Municipality (IMM) – White Desk (Beyaz Masa):**
 - Hotline: 153 (within Istanbul)
 - Online: <https://beyazmasa.ibb.gov.tr/>

World Bank Channels

- **World Bank Grievance Redress Service (GRS):**

Project-affected people may submit complaints directly to the GRS if they believe they are adversely affected by a World Bank-financed project.

- Website: <https://www.worldbank.org/en/projects-operations/products-and-services/grievance-redress-service>

- **World Bank Inspection Panel:**

Communities and individuals who believe that they are or may be harmed by a project due to the World Bank's non-compliance with its policies may submit a complaint to the Inspection Panel. The Panel independently determines whether harm has occurred and communicates directly with the Bank.

All grievances received through these channels will be recorded, tracked, and responded to in accordance with the Project's Grievance Mechanism Procedures. Roles and responsibilities for managing grievances are described in detail in Section 7 of the SEP.

ISTANBUL RESILIENCE PROJECT

10. Contractor's Reference Documents

The Contractor is expected to utilize all Environmental and Social (E&S) documents prepared under the Istanbul Resilience Project (IRP). Following contract award, the Contractor shall further develop and customize this site-specific Environmental and Social Management Plan (ESMP), which has been prepared in outline by the IPCU experts for the respective subproject.

In addition to the C-ESMP, the Contractor shall prepare and submit site-specific sub-management plans as defined in Section 5 of this ESMP, based on the templates provided in the ESMF annexes.

These plans shall be prepared by the Contractor and submitted to the IPCU for review and approval prior to the commencement of construction activities.

All relevant template documents can be accessed through the IRP Environmental and Social Management Framework (ESMF) and its annexes (*see IRP ESMF*), which serve as reference documents for the Contractor.

11. Review and Approval

PREPARED BY: Hande GÜLCAN IPCU - Environmental Engineer, MSc Date: 17/03/2026	
REVIEWED BY: Ashhan AL IPCU – Urban Planner/Social Specialist Date: 18/03/2026	APPROVED BY: Burak REİS IPCU - E&S Team Leader Date: 24/03/2026

ANNEXES

ISTANBUL RESILIENCE PROJECT

Annex 1. Site Photographs



Photo 1: Entrance



Photo 2: Existing Structure

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Photo 3: Project Area



Photo 4: Project Area

ISTANBUL RESILIENCE PROJECT



Photo 5: School Garden



Photo 6: School Garden

ISTANBUL RESILIENCE PROJECT



Photo 7: Trees

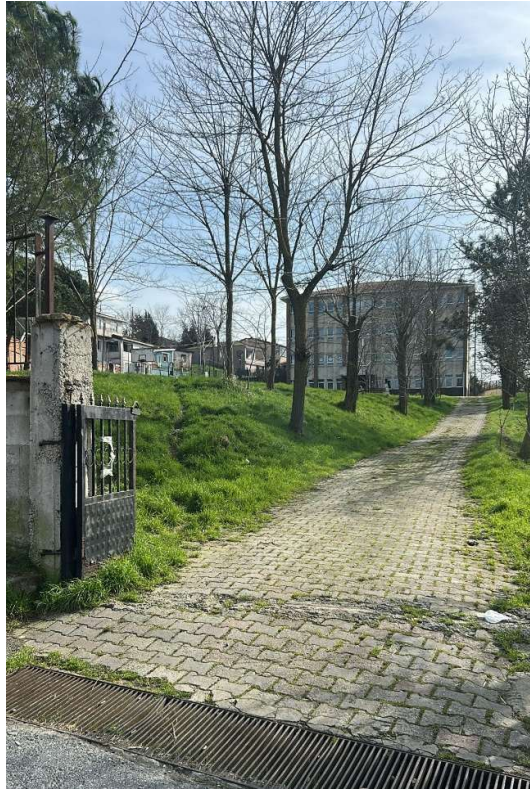


Photo 8: Trees

ISTANBUL RESILIENCE PROJECT

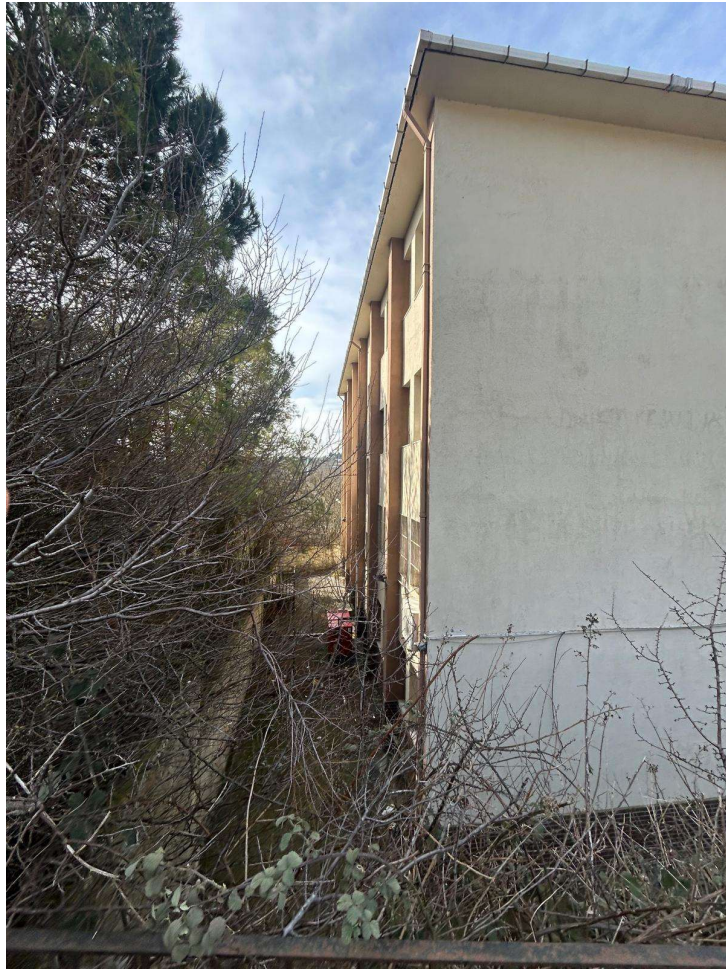


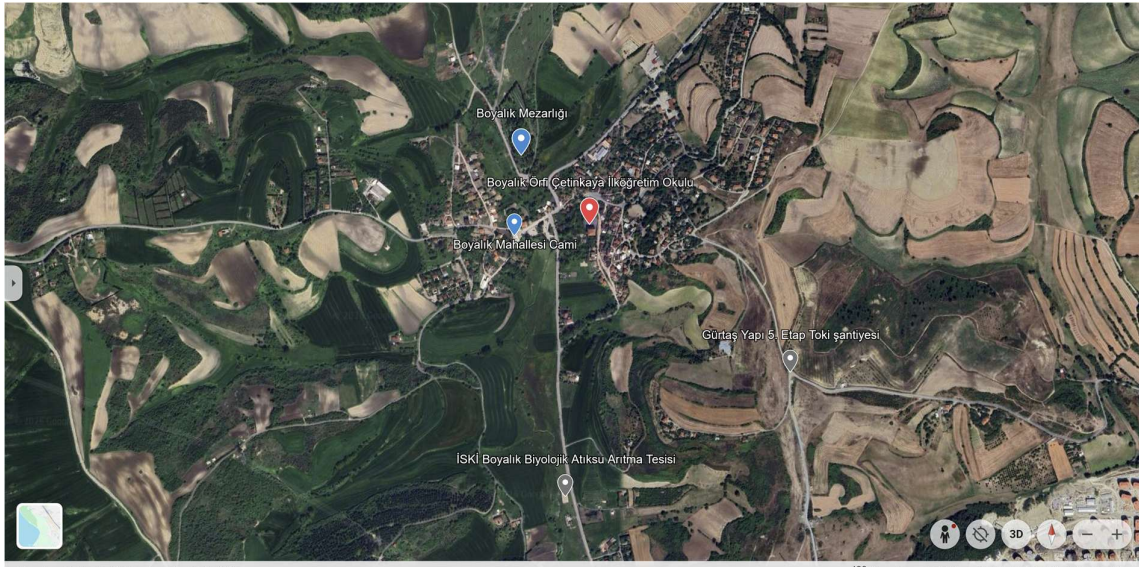
Photo 9: Trees

ISTANBUL RESILIENCE PROJECT

Annex 2. Aerial View of the Project Site and Surroundings




ISTANBUL RESILIENCE PROJECT




ISTANBUL RESILIENCE PROJECT

Annex 3. Land Registration Documents

TAŞINMAZA AİT TAPU KAYDI (Aktif Malikler için Detaylı - ŞBİ var)					
Zemin Tipi	: Ana Taşınmaz	Ada/Parsel	: 155/11		
Zemin No	: 81172332	Yüzölçüm	: 6.674,55 m2		
İ / Hçe	: İSTANBUL/ARNAVUTKÖY	Ana Tap. Nitelik	: KARGIR OKUL VE LOJMAN VE TUVALET MÜŞTEML ARSA		
Kurum Adı	: Arnavutköy TM				
Mahalle / Köy Adı	: BOYALIK Köyü				
Mevki	: KÖYÜÇİ				
Cilt / Sayfa No	: 10 / 963				
Kayıt Durum	: Aktif				
27115770					
TAŞINMAZ ŞERH / BEYAN / İRTİFAK					
S/Bİ	Açıklama	Malik / Lehdar	Tarih - Yevmiye	Terkin Sebebi - Tarih - Yev.	
Beyan	MILLİ EĞİTİM BAKANLIĞININ EMİR VE MÜSADESİ OLMADAN DEVİR VE TEMLİK EDİLEMEZ	MILLİ EĞİTİM BAKANLIĞI	-	--	
Beyan	Diğer (Konusu: 6306 SAYILI KANUN KAPSAMINDA REZERV YAPI ALANI İÇERİSİNDE KALMAKTADIR.) Tarih: - Sayı: -	ARNAVUTKÖY KADASTRO MÜHENDİSLİĞİ	23/01/2014 - 1602	--	
Beyan	İmar düzenlemesine alınmıştır.		14/07/2020 - 15247	--	
MÜLKİYET BİLGİLERİ					
Sistem No	Malik	Ekirliği No - Hisse Pay/Payda	Metrekaresi	Edilme Sebebi - Tarih - Yev.	Terkin Sebebi - Tarih - Yev.
266893705	ARNAVUTKÖY BELEDİYESİ	İAM	6.674,55	İnhabiten Devir (kurumlar arası) - 22/04/2014 - 8467	--
* Tesis edilen şerhler ve beyanlar salt elektronik ortamda tutulmaktadır.					
Rapor No: 27115770628 Yatırım No: 27115770628 Kayıt No: 27115770628					
Rapor Tarihi / Saati : 14.01.2022 16:15					

ISTANBUL RESILIENCE PROJECT

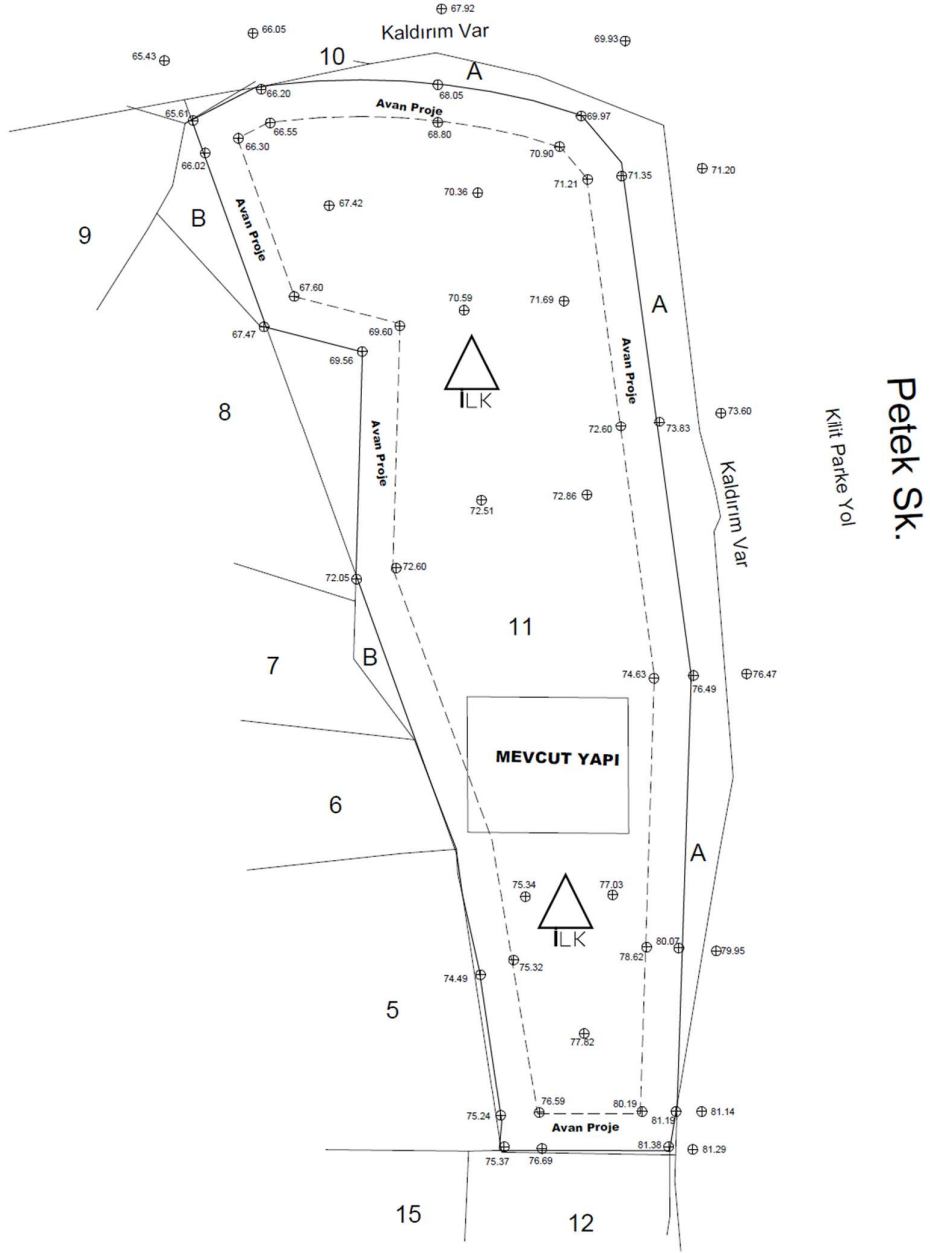
Annex 4.Topographic Survey

T.C. ARNAVUTKÖY BELEDİYESİ Emlak ve İstimlak Müdürlüğü		İsim: ARNAVUTKÖY.BELEDİYESİ..... 25.02.2025-623661..... sayılı ..dilekçe.. karşılığıdır.....			
KOT KESİT					
					
K 1					
Not : İnşaat projesi röleve esaslarına göre hazırlanacaktır. ITRF96 Koordinat sistemine göre düzenlenmiştir.					
İlçesi	ARNAVUTKÖY		Röperli krokinin	Tarihi ve No.su	Teknik Belge
Mahallesi	Boyalık				
Cadde veya Sokağı	Hacı Salim Ağa Cd.		İmar durumunun	Tarihi ve No.su	14.02.2025-E.618359
Tapu Alanı	Pafta	Ada / Parsel			
6674.55 m ²	F21a-23c-1d/4a	156/11	İstikametini aldığı mer'i imar planının	Tastik tarihi Ölçeği - Adı	25.03.2021 İstanbul İli (Avrupa Yakası) Rezerv Yapı Alanı (Kanal İstanbul Projesi) 1 Etabına İlişkin Revizyon UIP 1/1000
Ölçüm Yapan Eyüp ÖZTÜRK Harita ve Kad. Teknikeri		Hazırlayan Deniz OĞUZ Harita ve Kad. Teknikeri		Kontrol Eden Rafet DÖNER Harita Şefi	
				Onay Serdar AYDIN Emlak ve İstimlak Müdürü	

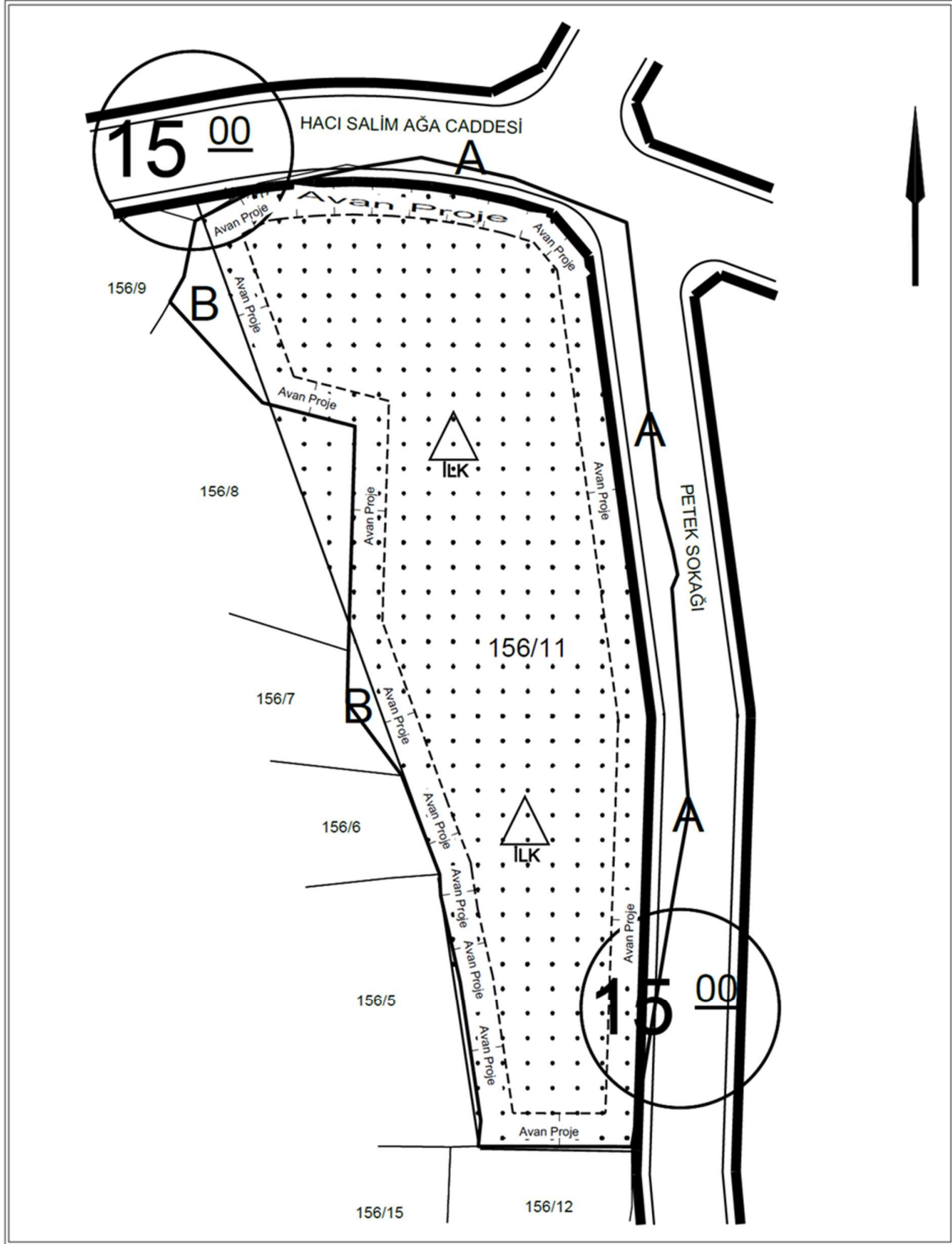
ISTANBUL RESILIENCE PROJECT

Hacı Salim Ağa Cd.

Asfalt Yol



ISTANBUL RESILIENCE PROJECT



ISTANBUL RESILIENCE PROJECT

Annex 6. Official Invitation Letter for the Public Information and Consultation Meeting

T.C.
İSTANBUL VALİLİĞİ
İstanbul Proje Koordinasyon Birimi

Sayı : IPKB/IRP/2026-2093461
Konu : Arnavutköy Boyalık İlkokulu ve Ortaokulu
Çevresel ve Sosyal Yönetim Planı
Paydaş Bilgilendirme ve İstişare Toplantısı

01.04/2026

İSTANBUL İL MİLLİ EĞİTİM MÜDÜRLÜĞÜNE

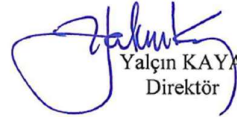
Birimimiz tarafından 2006 yılından bu yana İstanbul Sismik Riskin Azaltılması ve Acil Durum Hazırlık Projesi (İSMEP) yürütülmektedir. Bu süre zarfında İstanbul Proje Koordinasyon Birimi (İPKB), olası bir deprem durumunda kamu yapılarının risklerini azaltmayı hedeflemiş ve Türkiye Hazinesi katkılarıyla projeye dış finansman sağlayarak deprem hazırlık çalışmalarını sürdürmektedir.

Bununla birlikte, günümüzde iklim değişiklikleri ve yaşanan diğer büyük felaketlerden çıkarılan dersler, şehirlerin afet hazırlıklarını daha bütüncül bir yaklaşımla ele alma gerekliliğini ortaya koymuştur. Bu doğrultuda İPKB, Dünya Bankası ile iş birliği içinde "İstanbul Dirençlilik Projesi (IRP)"ni geliştirerek uluslararası standartlara uygun bir risk azaltma ve dirençlilik çerçevesi sunmayı hedeflemektedir.

Bu kapsamda, İstanbul Dirençlilik Projesi'nin "Çevresel ve Sosyal Yönetim Çerçevesi (ÇSYÇ)"nin nasıl uygulanacağına dair bir bilgilendirme ve değerlendirme toplantısı, ilgili kurumların katılımlarıyla, 25 Şubat 2025 tarihinde düzenlenmiştir. Bu süreçte IRP kapsamında yeniden yapımı gerçekleştirilecek olan Arnavutköy Boyalık İlkokulu ve Ortaokulu için Paydaş Bilgilendirme ve İstişare Toplantısı, 09.04.2026 tarihinde saat 10.30'da Dursunköy, 34283 Boyalık/Arnavutköy/İstanbul adresinde bulunan Arnavutköy Boyalık Mahallesi Muhtarlığında gerçekleştirilecektir. Arnavutköy Boyalık İlkokulu ve Ortaokulu taslak sahaya-özel Çevresel ve Sosyal Yönetim Planı www.ipkb.gov.tr web sitemiz üzerinde aşağıdaki bağlantı adresinde tüm taraflarca değerlendirilmek üzere paylaşılmıştır.

<https://www.ipkb.gov.tr/e-kutuphane/cevre-ve-sosyal-dokumanlar/>

Söz konusu toplantıya, Arnavutköy Boyalık İlkokulu ve Ortaokulu çalışanlarının, öğrenci velilerinin ve ilgili muhtarlık aracılığıyla okul çevresinde yaşayan mahalle sakinlerinin katılım sağlanması büyük önem taşımaktadır. Bu çerçevede, 09.04.2026 tarihinde saat 10.30'da Dursunköy, 34283 Boyalık/Arnavutköy/İstanbul adresinde bulunan Arnavutköy Boyalık Mahallesi Muhtarlığında gerçekleştirilecek "Paydaş Bilgilendirme ve İstişare Toplantısı"na iştirak edilmesi hususunda gereğini arz ederim.


Yalçın KAYA
Direktör



Kısıklı Mah. Alemdağ Yan Yolu Cad.
No:6 34692 Üsküdar/İSTANBUL

Tel: 0 (216) 505 55 00
Faks: 0 (216) 225 04 85

info@ipkb.gov.tr
www.ipkb.gov.tr

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Annex 7. Public Announcement of the Consultation Meeting

A. Web Site Announcement



B. Instagram Announcement



ISTANBUL RESILIENCE PROJECT

Annex 8. Minutes of the Public Information and Consultation Meeting

Stakeholder (Group or Individual)	Dates of Consultations	Summary of Feedback	Response of Project Implementation Team	Follow-up Action / Next Steps
School Principal	April 9, 2026	Based on past experiences with other schools, concerns were raised regarding potential basement flooding due to elevation differences. Clarification was requested on whether similar issues could arise in this project.	It was stated that all necessary technical and structural measures including waterproofing systems, specialized insulation, and drainage solutions, have been incorporated into the design to mitigate potential flood risks.	-
Neighborhood Headman (Muhtar)	April 9, 2026	Concerns were raised regarding potential administrative delays or interruptions in the implementation process. clarification was requested on whether World Bank procedures could effect the project timeline.	It was confirmed that the implementation process will proceed without interruption. It was emphasized that World Bank financing introduces enhanced audit financial management, procurement, and environmental and social oversight mechanisms, which strengthen overall project reliability. The project is being implemented in accordance with the World Bank's applicable requirements, as well as IPCU's established procedures.	The project implementation schedule will be closely monitored.
School Principal	April 9, 2026	Clarification was requested on whether there is a physical connection between the primary and secondary school sections and how administrative	It was confirmed that the design includes functional connections between blocks to ensure administrative coordination. While maintaining separation between primary and secondary school areas for safety, these	-

ISTANBUL RESILIENCE PROJECT

		control will be managed.	connections will remain accessible for administrative use and emergency response.	
School Principal	April 9, 2026	Information was requested regarding the procedure for addressing potential technical issues or defects after project completion.	It was explained that the contract includes a Defects Liability Period, specifically a one-year Provisional Acceptance period, during which the contractor is obligated to address any technical deficiencies under the supervision of the IPCU.	-
District Director of National Education (MEM)	09.04.2026	Concerns were raised regarding the maintenance costs of imported materials in case of damage. A preference for high-quality domestic materials was expressed to ensure sustainable maintenance within the school's budget.	It was stated that the material selection is based on quality and long-term performance criteria rather than specific brands. This approach allows the use of high-quality materials and facilitates future maintenance. The feedback was acknowledged and taken into consideration by the design consultant present at the consultation meeting, and the use of suitable materials may be encouraged where appropriate.	-

ISTANBUL RESILIENCE PROJECT

Annex 9. Site-Specific ESMP Presentation Materials


Bilgilendirme


Kişisel Verilerin Korunması Kanunu (KVKK) ve Dünya Bankası'nın Bilgi Paylaşımı İlkeleri kapsamında, bu toplantı sırasında ses ve görüntü kaydı alınabileceğini, toplantı katılım listesinde yer alan ad-soyad ve kurum bilgilerinizin toplantının dokümantasyonu ve proje kayıtları amacıyla işleneceğini bildiririz.

Toplantı kapsamında elde edilen bilgiler yalnızca:


- Proje paydaş katılımının kaydı altına alınması,
- Çevresel ve sosyal belge hazırlık süreçlerinin değerlendirilmesi,
- Dünya Bankası'nın şeffaflık ve izleme yükümlülüklerinin karşılanması amacıyla kullanılacak ve üçüncü kişilerle paylaşılmayacaktır.

Toplantıya katılarak bu bilgilendirme kapsamında verilerinizin işlenmesine rızanız göstermiş olursunuz.






İSTANBUL VALİLİĞİ
İSTANBUL PROJE KOORDİNASYON BİRİMİ
İstanbul Dirençlilik Projesi (IRP)
Arnavutköy Boyalık İlkokulu ve Ortaokulu Yeniden Yapımı
Paydaş Bilgilendirme ve İzleme Toplantısı




İSTANBUL PROJE KOORDİNASYON BİRİMİ

Ülke/Bölge : Türkiye / İstanbul
Proje Süresi : 2006 - 2026
Uygulama Kurumu : İstanbul Valiliği
İstanbul Proje Koordinasyon Birimi (IPKB)



İstanbul Valiliği altında
Ulusal arası kuruluşların kredi / hibelerini kullanan
Projeleri paydaş katılımı ile, ilgili kuruluşlarla işbirliği içinde yürüten bir birimdir.




Arnavutköy İlçesi Eğitim Yatırımlarımız (İSMEP 2006-2026)

İSMEP KAPSAMINDA ARNAVUTKÖY İLÇESİ YATIRIMLARI	
TOPLAM OKUL SAYISI	27
GÜÇLENDİRME VE ONARIM TAMAMLANAN OKULLAR	19
GÜÇLENDİRME VE ONARIM DEVAM EDEN OKULLAR	0
YENİDEN YAPIMI TAMAMLANAN OKULLAR	4
YENİDEN YAPIMI DEVAM EDEN OKULLAR	1
YENİDEN YAPIMI PROJE AÇAMASINDAKİ OKULLAR (A)	3
YENİDEN YAPIMI İHALE AÇAMASINDAKİ OKULLAR	0
GÜÇLENDİRME VE ONARIM PROJE AÇAMASINDAKİ OKULLAR	0
RİZİBİLİTE AÇAMASINDAKİ OKULLAR (B)	0

İSMEP kapsamında Arnavutköy ilçesindeki yeniden yapım inşaatlarına 42 olan eski derslik sayı 136'ya çıkarılmış; toplam kapalı alan da 579 m²'den 6.506 m²'ye yükseltilmiştir.

Yine İSMEP kapsamında Arnavutköy ilçesindeki güçlendirme ve onarım inşaatlarıyla toplam 50.544 m² alana sahip 359 derslikli 19 okul güvenli hale getirilmiştir.

Arnavutköy ilçesinde 1 adet okulun yıkım ve yeniden yapım çalışmaları devam etmektedir.



İstanbul Dirençlilik Projesi (IRP)


Dünya Bankası (DB) tarafından finanse edilecek ve İstanbul Valiliği İstanbul Proje Koordinasyon Birimi (IPKB) tarafından yürütülecektir. Proje, İstanbul'un afet risklerini azaltmayı, üstyapıyı güçlendirmeyi ve iklim değişikliğine dayanıklı çözümler geliştirmeyi hedeflemektedir.

PROJE HEDEFİ

- Afetlere dayanıklı ve sürdürülebilir yapısal çözümler geliştirmek,
- İstanbul'un sismik ve iklim risklerine karşı dirençliliğini artırmak,
- Toplumun afetlere hazırlık kapasitesini güçlendirmek,
- Afet risklerini azaltarak sosyal ve ekonomik sürdürülebilirliği desteklemek

ODAK NOKTASI


- İstanbul'un afet ve iklim risklerine karşı dirençliliğini artırmak



Kredi İçeriği


BİLEŞEN 1
Acil Durum Hazırlık ve Müdahale Sisteminin Güçlendirilmesi

BİLEŞEN 2
Kritik Binaların ve Tesislerin Dirençliliğinin Artırılması




Bileşen 1 Kapsamında Yapılması Planlanan Yatırımlar

- Acil Durum Binalarının Dirençli Hale Getirilmesi
- İlk Müdahale Ekiplerinin Eğitimi ve Donatılması
- Toplum Düzeyinde Acil Durum Hazırlığı

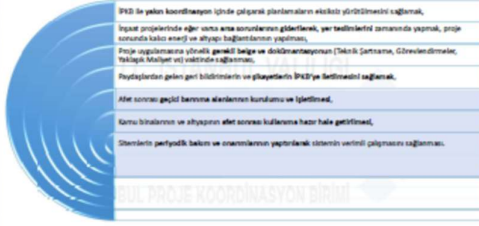


Bileşen 2 Kapsamında Yapılması Planlanan Yatırımlar

- Kritik Binaların ve Tesislerin Dayanıklılığının Artırılması
- İstanbul'un Uzun Vadeli Afet ve İklim Direncinin Güçlendirilmesi



İlgili Kamu Kurum ve Kuruluşlarının Proje Kapsamındaki Genel Sorumlulukları



ARNAVUTKÖY BOYALIK İLKOKULU VE ORTAOKULU YENİDEN YAPIM İŞİ

İPKB Ç&S YÖNETİM SORUMLULUKLARIMIZ

- (i) Projenin tüm yaşam döngüsü boyunca, projeye ilişkin tüm görsel materyaller, broşürler, şikâyet mekanizması (ŞM) bilgileri ve dokümantasyonu (Çevresel ve Sosyal dokümanlar dâhil olmak üzere) tüm paydaşların erişimine açık olacak şekilde İPKB web sayfası üzerinden kamuya açık paylaşılacaktır.
- (ii) Bu bağlamda, Paydaş Katılım Planı (PKP) ve projeye ilişkin diğer dokümanlarda tanımlanan proje standartlarına tam uyum içinde yerine getirilecektir.
- (iii) İstanbul Proje Koordinasyon Birimi'nin (İPKB) temel sorumluluğu, söz konusu proje standartlarına tam uyumluk sağlayacak şekilde, bu çerçevede tutarlı bilgi paylaşım sürecini aktif olarak temin etmek ve sürdürmektir.



Proje Alanı Hakkında

Alan Proje Başlığı:	Okulların Yeniden İnşaatı (İnşaatın net adı belirlenmiş, diğer sosyal kentsel alanlar için belirlenmiştir)
Konumu:	Boyalık Mahallesi, Hacı Salim Ağa Caddesi, No: 4, Arnavutköy/İstanbul İlçe 156, Parsel 13
Uygulayıcı Kurum:	İstanbul Proje Koordinasyon Birimi (İPKB)
Sorumlu Kuruluş:	Millî Eğitim Bakanlığı (MEB)
Saha Durumu:	Daha önce yapılmış alanın taşınmaz olarak değerlendirilmediği, okul binasının inşaatı ve arazi kullanımı için uygun ve uygunluğunun, arazi ve tapınma ölçümleri, arazi projeleri hazırlanmış ve başlatılmıştır.
Diğer Bilgiler:	Talpa 9.971 m ² kapalı alana sahip
Tahmini Maliyet:	Proje, 9.971 m ² kapalı alanda olmaktadır. İlgili çalışmalar kendi maliyet tahminleriyle gerçekleştirilecektir.

Temel tasarım özellikleri şunlardır:

- 15.000 deponaj kapasitesi,
- Sürdürülebilir enerji sistemleri (güneşli paneller),
- Gelecekteki genişletilebilir kapasite ve
- Aulı alanlarında 72 saat toplam barınma alanı sağlama kapasitesi,
- Diğerli binaların arazi kullanımı için kapasite tasarımı

Planlanan inşaat faaliyetleri şunlardır:

- Saha hazırlığı ve kazı
- Temel beton ve diğer yapı çalışmaları
- İç ve dış kaplama işleri
- Peyzaj ve diğer düzenlemeler ve
- Malzeme ve ekipmanların teslimatı ve kurulumu.



ÇEVRESEL VE SOSYAL ETKİ TARAMASI

Yapılacak olan yeni inşaatın bulunduğu okul binası yıkılacaktır.

Yıkılan okul binası



Proje Çevresel ve Sosyal Etki Alanı

Proje alanı, Arnavutköy'de konut, tarım ve yerel iş faaliyetlerinin olduğu yeni kentsel bir alanı kapsamaktadır.

Proje Alanı
Okul Yapısı
Diğerli/Kamu Tesisleri



ÇEVRESEL VE SOSYAL ETKİ TARAMA SONUÇLARI

- Kentsel koruma:** Ağırli alanlar yeni kentsel bir alandır.
- Proje alanı:** Tarım alanlarında, korut, tarım ve yerel iş faaliyetlerinin olduğu sosyal etkileşim alanıdır.
- Kamu mülkiyeti:** Alan mülkiyeti kamuya ait olup Millî Eğitim Bakanlığı'na tahsislidir.
- Sosyo-Ekonomik Etki:** Temel inşaat faaliyetleri ve topluluk için kaynakların geliştirilmesi için bir etki beklenmemektedir.
- Mevcut altyapı:** Temel su, elektrik ve ulaşım alanları halihazırda sahada mevcuttur ve proje için tam yeterlidir.
- Yatırım ihtiyacı:** Yeni bir altyapı yatırım veya mevcut altyapı kapasite artırımı ihtiyacı bulunmamaktadır.
- Proje Niteliği:** Proje, mevcut kullanım amacına uygun şekilde yeni kentsel alan içinde yeniden yapılmaktadır.

Saha, teknik altyapı ve mülkiyet açısından projenin hızlıca başlatılması için uygun olup, hassas alanlar olan etkileşim, yeni kentsel doku içerisinde sınırlı ve yönetilebilir seviyededir.



İnşaat Faaliyeti Başlıca Çevre Riskleri

Projenin başlıca çevresel risklerini inşaat işleri ile ilgili tipik riskler ve etkiler olması beklenmektedir.

- Toz ve Emisyon:** İnşaat kaynaklı toz ve parçacık emisyonları
- Lojistik Kirlilik:** Hammadde taşıma faaliyetleri sırasında toz ve çamur taşınması
- Gürültü Kirliliği:** Ağır makine ve araç kaynaklı gürültü yönetimi
- Erozyon Riski:** Kazı çalışmaları ve yüzey suyu akışının değişmesi sonucu toprak kayması
- Titreşim Kirliliği:** Ekipman çalışması kaynaklı yapısal hassasiyet, titreşim etkileri
- Drenaj Sorunları:** Sahalarda geçici su birikimi ve drenaj
- Atık Yönetimi:** Tehlikeli ve tehlikesiz atık üretimi ve bertarafı
- İş Kazaları:** Yangın, kimyasal sızıntı veya doğal afet riskleri
- Kimyasal Kirlilik:** Atık yağ ve solvent dökülme riskleri
- Çevre Kazaları:** Tehlikeli madde depolama ve bertaraf süreçleri



İnşaat Faaliyeti Başlıca Sosyal ve İşgücü Riskleri

- İnşaat alanında iş kazaları ve yaralanma riskleri:** Acil durum yönetimi eksiklikleri ve kazaların müdahale kapasitesinin yetersizliği.
- Kişisel koruyucu ekipman (KKE) eksiklikleri ve güvenlik önlemlerinin yetersiz uygulanması:** Kadın çalışanların istihdam edilmemesi veya ayrımcılık uygulama riski.
- Uzun çalışma saatleri ve çalışan rahatsızlıklarının önlenememesi:** Kadın çalışanların (engelliler, yaşlılar, göçmenler) doğrudan veya dolaylı olarak olumsuz etkilenmesi.
- Alt yükleniciler ve tedarikçiler tarafından düşük işçilik veya zorla çalıştırma ihtimali:** Yerel toplumların ekonomik faaliyetlerini olumsuz etkileyebilecekleri geçici veya kalıcı değişiklikler.
- Çalışanların işe alım süreçlerinde etik kurallara ihlal edilmesi:** İşçilerin ve toplumların proje ile ilgili şikâyetlerini iletebileceği etkin bir mekanizmanın olmaması.
- İnşaat faaliyetlerinin trafik akışını ve yol güvenliğini olumsuz etkileme ihtimali:** İşçilerin ve toplumların proje ile ilgili şikâyetlerini iletebileceği etkin bir mekanizmanın olmaması.
- Çantiye alanında toz, gürültü ve titreşimden kaynaklı sağlık riskleri:** Paydaş katılımının yetersiz olması ve halkın proje sürecine dahil edilmemesi.



ISTANBUL RESILIENCE PROJECT

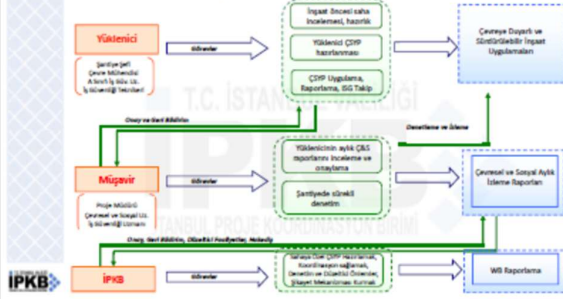
DB Ç&S Risk Değerlendirmesi

Dünya Bankası saha tarama sonucuna göre Arnavutköy Boyalık İlkokulu ve Ortaokulu Yeniden Yapım Projesi;

- Çevresel Riski **Orta**,
 - Sosyal Riski **Orta**,
- olarak belirlenmiştir.



Ç&S Yönetim Modelimiz



ÇEVRESEL RİSKLERİN YÖNETİMİ

İnşaat çalışmaları sırasında, bölgede halihazırda mevcut olan ulaşım güzergahları, kanalizasyon, elektrik ve su şebekeleri kullanılacaktır.

ATIK YÖNETİMİ

İnşaat, Hafriyat Atıkları: İnşaat ve/veya alanların kazınması ile oluşan hafriyat atıkları ilgili Belediyenin belediyesi alanlarına taşınarak depolanacaktır. Atıkların sahaya kasul edilmesine dair ilgili resmi yazılar ile hafriyat izin ve taşıma belgeleri alınacaktır.

Büsel atıklar: Olupacak evsel nitelikli atıklar kaynağında ayrıştırılacak (plastik, cam, kağıt, vb.) ve değerlendirilebilir nitelikte olanların geri dönüşüme katılması sağlanacaktır. Atıkların uygun bölgelerde ayrıştırılması için paşapara eğitimler verilecektir. Atıklar, yetkili Belediyenin toplama birimine teslim edilecektir.

Tehlikeli Atıklar: Şantiye sahasında oluşması muhtemel tehlikeli ve kimyasal atıklar Çevre Şehircilik ve İklim Değişikliği Bakanlığı Ulusal Çevre Bilgi Sistemi (UÇBS) üzerinden lisanslı bertaraf tesislerine gönderilecektir.

Atıkların taşınması ve depolanması sırasında, çevre ve insan sağlığı açısından gerekli tedbirler alınacaktır.



ÇEVRESEL RİSKLERİN YÖNETİMİ

Topo Kontrolü:

- İnşaat faaliyetleri sırasında oluşabilecek topo emiyonları, özellikle kuru hava koşullarında sulama yapılarak kontrol altına alınacaktır.
- Malzeme nakliyesi sırasında kamyon kazaları branda ile kapatılacak; hafriyat veya doğu malzemelerinin rüzgâra çevreye yayılması engellenecektir.
- Topo oluşturulacak malzemeler (kum, çakıl, çimento vb.) kapalı alanlarda depolanacak veya üstü uygun şekilde örtülecektir.
- Şikâyet mekanizması kapsamında tozla ilgili gelen geri bildirimler hızlı değerlendirilerek etkiler tedbirler uygulanacaktır.

Gürültü Kontrolü:

- Çalışmalar mümkün olduğunca gündüz saatlerinde yürütülecektir.
- Ses ölçümleri ölçümlerinin periyodik bakımları yapılarak gürültü seviyeleri minimumda tutulacaktır.
- Yüksek gürültülü işler kapsamında yakın mahalleler veya kullanıcılar bilgilendirilecek, çalışma programı önceden duyurulacaktır.
- En yakın sivilardan gürültü üretimiyle ilgili herhangi bir şikâyet alındığında gürültü ölçümleri yapılacaktır.



Çevre ve Atık Yönetimi

1 İnşaat esnasında başlıca dikkat edilecek hususlar

- ✓ Topo kontrolü
- ✓ GÜBRE KULLANIMI
- ✓ Toprak kirliliği
- ✓ Trafik ve yaya güvenliği
- ✓ Ağaçların korunması



Çevre ve Atık Yönetimi

2 Atıkların türüne göre ayrı toplanıp depolanması

- ✓ Tehlikeli atıklar
- ✓ Tehlikesiz atıklar (evsel ve geri dönüştürülebilir atıklar)
- ✓ Atık çöplüğüne göre ayrı konteynerler

3 Sahada "Atık Yönetimi Yönetmeliği"ne uygun "Atık Geçici Depolama Alanı" kurulması

- ✓ Çift kapaklı, kilitli, ayrı bölümler
- ✓ Geçirimsiz taban
- ✓ Atık türü etiketleri
- ✓ Atık alanı çevresinde ve içinde bilgilendirme levhaları
- ✓ Uygun ambalajlar
- ✓ Yangın çıkartıcısı



Çevre ve Atık Yönetimi

4 Lisanslı taşıyıcı firmalar ile gönderim ve Atık kayıtlarının tutulması

- ✓ UÇBS sistemi üzerinden kayıt ve takip
- ✓ Atık kayıt formu tablosu ile atıkların türüne göre gönderim zaman ve miktarlarının kayıt altına alınması



SOSYAL RİSKLERİN YÖNETİMİ


- Çalışmalar, çevrede yaşayanların günlük hayatını en az etkileyecek şekilde yürütülecek; çalışma saatleri buna göre planlanacaktır.
- Araç giriş-çıkışları için trafik yönetim planı uygulanacak; malzeme taşıyan araçların hız ve güzergâhları denetlenecektir.
- Şantiyedeki tüm çalışanlara davranış kuralları (ayrıcılık, SEA/SH vb.) konusunda eğitim verilecek ve bu kurallara uyum sağlanacaktır.
- Halkla düzenli iletişim için şikâyet Mekanizması işletilecek; başvurular kayıt altına alınıp hızlı şekilde çözülecektir.
- Proje istihdamının artmasıyla bölgedeki esnafın ekonomik olarak olumlu etkilenmesi beklenmektedir.
- İnşaat alanında güvenlik, uyarı levhaları ve bariyerler sağlanarak yetkisiz kişilerin girişinin önüne geçilecek ve mahalle güvenliği korunacaktır.



ISTANBUL RESILIENCE PROJECT

Annex 10. Project Design Presentation

BOYALIK İLKOKULU & ORTAOKULU



IPKB SP Architects

İHTİYAÇ LİSTESİ

TALEP EDİLEN (İLKOKUL)

NO	İHTİYAÇ	ADET	ALAN (m ²)	HACİM (m ³)
1	Derslikler	12	1.140,19	1.140,19
2	Fen Dersliği	1	3.093,89	3.093,89
3	Görsel Sanatlar Dersliği	1	1.908,28	1.908,28
4	Müzik Dersliği	1	1.908,28	1.908,28
5	Destek Eğitim Odası	1	42,14	42,14
6	Çok Amaçlı Salon	1	68,82	68,82
7	Etkinlik/Oyun Odası	2	42,14	84,28
8	Yemek Salonu	1	42,14	42,14
9	Ofis	1	42,14	42,14
10	Kütüphane & Bilgisayar Odası	1	42,14	42,14
11	Kantin & Kafeterya	1	42,14	42,14
12	Beden Eğitim Salonu	1	42,14	42,14
13	Mescit	2	42,14	84,28
14	Teknoloji & Tasarım Atölyesi	1	42,14	42,14
15	TOPLAM	12	12.141,00	12.141,00

KONSEPT PROJEDE GERÇEKLEŞTİRİLEN

- Derslikler / 12 adet
- Fen Dersliği / 1 adet
- Görsel Sanatlar Dersliği / 1 adet
- Müzik Dersliği / 1 adet
- Destek Eğitim Odası / 1 adet
- Çok Amaçlı Salon / 1 adet
- Etkinlik/Oyun Odası / 2 adet
- Yemek Salonu / 1 adet
- Ofis / 1 adet
- Kütüphane & Bilgisayar Odası / 1 adet
- Kantin & Kafeterya / 1 adet
- Beden Eğitim Salonu / 1 adet
- Mescit / 2 adet

TOPLAM
12 ADET DERSLİK
3 ADET ATÖLYE
1 ADET DESTEK BİRİMİ BULUNMAKTADIR.
2 ETKİNLİK/OYUN ODASI MEVCUTTUR.

*Tasarıfın yapıldığı alanın tamamında alanın kullanılması için gerekli alanlar belirtilmiştir.

İHTİYAÇ LİSTESİ

TALEP EDİLEN (ORTAOKUL)

NO	İHTİYAÇ	ADET	ALAN (m ²)	HACİM (m ³)
1	Derslikler	12	1.140,19	1.140,19
2	Fen Dersliği	1	3.093,89	3.093,89
3	Görsel Sanatlar Atölyesi	1	1.908,28	1.908,28
4	Müzik Dersliği	1	1.908,28	1.908,28
5	Destek Eğitim Odası	1	42,14	42,14
6	Çok Amaçlı Salon	1	68,82	68,82
7	Etkinlik/Oyun Odası	2	42,14	84,28
8	Yemek Salonu	1	42,14	42,14
9	Ofis	1	42,14	42,14
10	Kütüphane & Bilgisayar Odası	1	42,14	42,14
11	Kantin & Kafeterya	1	42,14	42,14
12	Beden Eğitim Salonu	1	42,14	42,14
13	Mescit	2	42,14	84,28
14	Teknoloji & Tasarım Atölyesi	1	42,14	42,14
15	TOPLAM	12	12.141,00	12.141,00


KONSEPT PROJEDE GERÇEKLEŞTİRİLEN

- Derslikler / 12 adet
- Fen Dersliği / 1 adet
- Müzik Dersliği / 1 adet
- Görsel Sanatlar Atölyesi / 1 adet
- Destek Eğitim Odası / 1 adet
- Kütüphane / 1 adet
- Kantin & Kafeterya / 1+0/2 adet
- Çok Amaçlı Salon / 1 adet
- Mescit / 2 adet
- Beden Eğitim Salonu / 1 adet
- Teknoloji & Tasarım Atölyesi / 1 adet

TOPLAM
12 ADET DERSLİK
4 ADET ATÖLYE
1 ADET DESTEK BİRİMİ BULUNMAKTADIR.

*Tasarıfın yapıldığı alanın tamamında alanın kullanılması için gerekli alanlar belirtilmiştir.

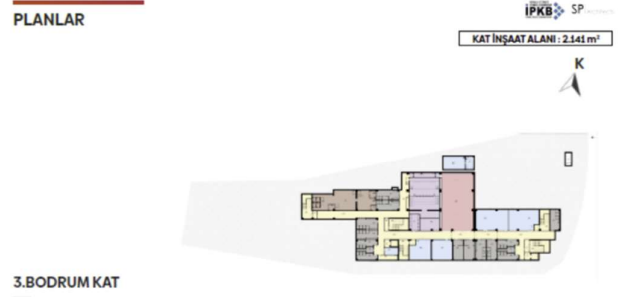
VAZİYET PLANI



Kat	Alan (m ²)
1. Bodrum Kat	1.140,19
2. Bodrum Kat	3.093,89
3. Bodrum Kat	1.908,28
Zemin Kat	1.908,28
1. Kat	1.908,28
2. Kat	68,82
Mevcutlerin Çatılı Katları	42,14
TOPLAM İNŞAAT ALANI	9.796,47

PLANLAR

KAT İNŞAAT ALANI : 2.141 m²



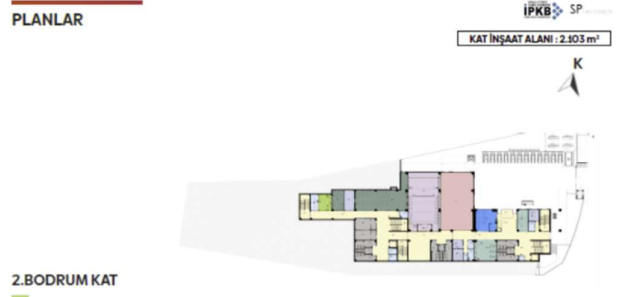
3. BODRUM KAT

- Sığınak
- Koridorlar & Girişli Odalar
- Saklı Alanlar
- Mekânlar
- Çapraz & Ağız & Tavanlı Mekânlar
- Diğer Odalar

BOYALIK İLKOKULU & ORTAOKULU

PLANLAR

KAT İNŞAAT ALANI : 2.103 m²



2. BODRUM KAT

- Çocuklar & TCC Odaları
- Koridorlar & Girişli Odalar
- Saklı Alanlar
- Mekânlar
- Çapraz & Ağız & Tavanlı Mekânlar
- Diğer Odalar

BOYALIK İLKOKULU & ORTAOKULU

ISTANBUL RESILIENCE PROJECT

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



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PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

PROJE GÖRSELLERİ



BOYALIK İLKOKULU & ORTAOKULU

YENİLİKÇİ TASARIM KRİTERLERİ

IPKB SP

DOĞAL VE MEKANİK HAVALANDIRMA MENFEZLERİNİN YAPIMI



BOYALIK İLKOKULU & ORTAOKULU

ISTANBUL RESILIENCE PROJECT

YENİLİKÇİ TASARIM KRİTERLERİ



TAVAN VE DUVARLARINDA AKUSTİK SES İZOLASYONLARININ YAPIMI



DUVARLARDA KORUMA MİNDERLERİ VE ZEMİNDE PVC KAPLAMA YAPIMI



BOYALIK İLKOKULU & ORTAOKULU

YENİLİKÇİ TASARIM KRİTERLERİ



ÇATIDA FOTOVOLTAK PANNELERİN KURULMASI



BAHÇE SULAMA SİSTEMLERİ



GÜNEŞ ENERJİLİ BAHÇE AYDINLATMALARI

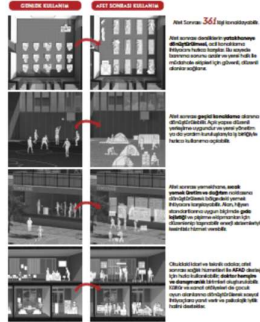


JENERATÖRLERİN ARTIRILMASI



BOYALIK İLKOKULU & ORTAOKULU

AFET SONRASI KENDİ KENDİNE YETEN YAPILAR



BOYALIK İLKOKULU & ORTAOKULU

ÖNCELİKLİ İHTİYAÇ ALANLARI



TEKNİK SİSTEMLER



TEŞEKKÜR EDERİZ



ISTANBUL RESILIENCE PROJECT

Annex 11. Consultation Meeting Photographs



ISTANBUL RESILIENCE PROJECT

