

**TÜRKİYE PUBLIC AND MUNICIPAL RENEWABLE ENERGY PROJECT  
(PUMREP)**

**ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)**

**9.99 MWp / 8.60 MWe Solar (Photovoltaic) Power Plant Project  
of Kayseri Water and Sewerage Directorate (KASKI)**

**April 2025**

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## Abbreviations

<b>AF</b>	Associated Facility
<b>CCTV</b>	Closed-Circuit Television
<b>DG</b>	Directorate General
<b>E&amp;S</b>	Environmental and Social
<b>EHS</b>	Environmental, Health and Safety
<b>EHSG</b>	Environmental, Health and Safety Guidelines
<b>EIA</b>	Environmental Impact Assessment
<b>ESA</b>	Environmental and Social Assessment
<b>ESAP</b>	Environmental and Social Action Plan
<b>ESF</b>	Environmental and Social Framework
<b>ESMP</b>	Environmental and Social Management Plan
<b>ESMS</b>	Environmental and Social Management System
<b>ESS</b>	Environmental and Social Standards
<b>ETL</b>	Energy Transmission Line
<b>E&amp;S</b>	Environmental and Social
<b>FI</b>	Financial Intermediary
<b>GFI</b>	Ground Fault Interrupter
<b>GIIP</b>	Good International Industry Practice
<b>GM</b>	Grievance Mechanism
<b>IFIs</b>	International Financial Institutions
<b>IA</b>	Impact Area
<b>KASKI</b>	Kayseri Water and Sewerage Directorate
<b>ILBANK</b>	İller Bankası A.Ş.
<b>KPI</b>	Key Performance Indicator
<b>MTA</b>	Directorate of Mineral Research and Exploration
<b>OHS</b>	Occupational Health and Safety
<b>O&amp;M</b>	Operation and Maintenance
<b>PAP</b>	Project Affected People
<b>PDR</b>	Project Description Report
<b>PIU</b>	Project Implementation Unit
<b>PPE</b>	Personal Protective Equipment
<b>Project</b>	Public and Municipal Renewable Energy Project
<b>PUMREP</b>	Public and Municipal Renewable Energy Project
<b>RD</b>	Regional Directorate
<b>RE</b>	Renewable Energy
<b>SCADA</b>	Supervisory Control and Data Acquisition
<b>SEA/SH</b>	Sexual Exploitation and Abuse and Sexual Harassment
<b>SEP</b>	Stakeholder Engagement Plan
<b>SPP</b>	Solar Power Plant
<b>Sub-project</b>	ŞEKER SPP Project of Sub-borrower KASKI
<b>WB</b>	World Bank

## Glossary of Terms

Associated facilities	<p>Facilities or activities that are not funded as part of the Sub-project and are:</p> <ul style="list-style-type: none"> <li>(a) directly and significantly related to the project;</li> <li>(b) carried out, or planned to be carried out, contemporaneously with the project; and</li> <li>(c) necessary for the project to be viable and would not have been constructed, expanded or conducted if the project did not exist.</li> </ul> <p>For facilities or activities to be Associated Facilities, they must meet all three criteria.</p>
Contractor	A person or organization providing services to an employer at the client worksite in accordance with agreed specifications, terms and conditions.
Excavated material	Materials/soils that are generated as a result of excavation and other similar activities carried out prior to construction
Legally protected area	<p>Designated terrestrial, aquatic or marine ecosystems managed under the related legislation to protect and sustain the biodiversity features, natural and associated cultural resources.</p> <p>Legally protected areas of Türkiye include a diversity of natural ecosystems and associated features ranging from coastal zones to mountains, deltas, forests, plains, steppe, lakes, river systems, deep valleys, canyons, and glaciers.</p>
Material borrow site	Sites, where loose material containing gravel, sand, silt, and clay, which is formed by the natural and geological processes of rock fracturing, fragmentation, alteration, transportation, and/or in-situ sedimentation, and which has the characteristics of slope debris, are extracted to be used as fill material.
Off-site accommodation	Accommodation of workers at hotels, rented housing, etc. available in the vicinity of Sub-project area.
On-site accommodation	Accommodation of workers at temporary exploration camps, construction camps, dormitories, etc. established for the Sub-project on site.
Risk	A combination of the likelihood of an occurrence of a hazardous event and the severity of injury or damage to the health of people caused by this event.
Topsoil	Part of soil that provides organic and inorganic materials, air and water required for vegetative growth, and is required to be stored separate from the subsoil.

## EXECUTIVE SUMMARY

Türkiye Public and Municipal Renewable Energy Subproject (PUMREP) is financed by the World Bank (WB) to support the deployment of Renewable Energy (RE) technologies in municipalities and to scale up renewable energy in the public sector. İller Bankası A.Ş. (ILBANK) and the WB have established a support system for developing cities to identify, prepare, finance and finance investments for metropolitan municipalities to plan for and invest in a sustainable future, and to develop their urban planning capacities for this purpose. One of the areas of support is in the areas of institutional capacity building and Energy Efficiency and Renewable Energy.

Within the scope of PUMREP, Kayseri Metropolitan Municipality General Directorate of Water and Sewerage Administration (KASKİ) plans to install a land-applied Solar Power Plant (SPP) subproject called KASKİ ŞEKER SPP for a connection power of 8.60 kWe on the parcels of land specified in Table 1.

Table 1. Location and Connection Power Information of the Planned Plant

No	Power Plant Name	Connection Power	District/Neighborhood	Block/Parcel	Area(m <sup>2</sup> )
1	KASKİ-ŞEKER	8.60 kWe	Kocasinan District /Şeker Neighborhood	7099/58	165.796,25
2	KASKİ-ŞEKER	8.60 kWe	Kocasinan District /Şeker Neighborhood	7099/59	1.002,33

The Sub-project has been classified as having a Moderate level of risk according to ILBANK's E&S Risk Screening under its ESMS. As part of the Sub-project, an Environmental and Social Management Plan (ESMP) has been prepared in line with ILBANK's ESMS, the WB Environmental and Social Framework (ESF), relevant Environmental and Social Standards (ESSs), WBG General EHS Guidelines, Industry Sector Guidelines, and Türkiye's national legislation. This ESMP aims to enhance sub-borrowers' capacity and awareness while ensuring compliance with these standards and regulations, as is required for internationally financed subprojects.

Within the scope of national legislation, the subproject has an "EIA Not Required" decision (Annex-B EIA Not Required Certificate) within the scope of the national EIA Regulation (Official Gazette dated 29.07.2022 and numbered 31907) in March 2023. In addition, a non-agricultural use permit has been obtained for the area where the subproject is planned to be constructed (Annex-B Non-Agricultural Use Permit).

"The "KASKİ Şeker SPP" subproject plans to realize a 8.60 MWe Solar Power Plant Subproject on block 7099 parcels 58 and 59, Şeker Neighborhood, Kocasinan District, Kayseri Province, owned by Kayseri Water and Sewerage Administration (KASKİ). The sub-project will be located on land currently owned by KASKİ where the drinking water pumping station is located.

The sub-project has an area of 165.796,25 m<sup>2</sup> with the 7099 block and 58 parcel number (for SPP and ETL) and an area of 1.002,33 m<sup>2</sup> with the 70099 block and 59 parcel number (for ETL). There is a drinking water pumping station covering only 130.002 m<sup>2</sup> of the area numbered 58 parcel and the entire area numbered 59 parcel. The ownership of the parcels belongs to KASKİ, and no land acquisition and expropriation will be made during the construction and operation phases of the subproject. The title deed of the sub-project area is presented in Annex-C. The sub-project area is shown in Figure 1.

Figure 1. Subproject Area



The environmental and social risk rating of the subproject is assessed as “Moderate” as the environmental and social risks for the construction works are temporary and site specific and the subproject construction area is not located in environmentally and socially sensitive area. Therefore, environmental, and social risks can be mitigated by applying good construction practice guidelines and mitigation measures identified in this ESMP. This ESMP has been prepared for this subproject in line with the overarching ILBANK ESMS and WB ESF, covering risks and mitigation measures specific to this subproject area.

The sub-project area is located at the intersection of Şeker, Oruçreis and Yenidoğan neighborhoods. The sub-project area eliminates many environmental and social risks as it is located far from these settlement centers and in an area where urbanization areas are not dense. The closest settlement to the sub-project area is Yenidoğan Neighborhood, 690 m away. The sub-project area is located 16 km from Kayseri city center, 1000 m from Şeker neighborhood, 1300 m from Yenidoğan neighborhood and 750 m from Oruçreis neighborhood. Şeker SPP is 500 m from Kayseri Şehit İstikham Er Suat ÖZGAN primary school and is surrounded by Bekir Yıldız Boulevard to the north-east and Alinteri Street to the east and south. The sub-project area is located at the intersection of Alteri Street, which is separated from Bekir Yıldız Boulevard. The roads to be used for logistics and material supply during mobilization, construction and operation phases will not affect any settlement, only the ring road, boulevard road and connection road will be used. The sub-project area has a soil and there are fruit trees in a certain part of it. Therefore, topsoil stripping works will be completed before the construction phase and subsoil and topsoil will be stored separately without mixing.

As a result of the field visit, it was determined that there were 90 apricot trees in total. As a result of the examination made by the agricultural engineer of the metropolitan municipality, it was determined that 7 apricot trees were dried up and the remaining 83 apricot trees were green. According to the official letter (Annex B) received from the 7th Regional Directorate of Nature Conservation and National Parks Directorate of the Ministry of Agriculture and Forestry, in the examination made in the Noah's Ark National Biological Database; it has been determined that there is no special plant community in the project area and it is stated that there is no problem in terms of our legislation in removing the existing plant species in the area. Before the project works and topsoil stripping works start, the existing trees will be removed with a

tree uprooting machine with the work of the agricultural engineers working within the metropolitan municipality and will be transported to the urban forest orchard area of the metropolitan municipality 1.2 km away from the sub-project area. The transportation of the trees in the sub-project area to the designated urban forest will be carried out in the spring and additional irrigation measures will be taken to prevent the trees from drying out. Some of the fruit trees identified during the sub-project field survey were found to have bird nests (Sparrowbird - Passeridae). In line with mitigation measures, trees with nests will be moved after the end of the incubation period of the sparrow bird (Passeridae) (late spring). The incubation period usually lasts for 11-12 days and the hatchlings take 2 weeks on average to leave the nest. The entire sub-project area is surrounded by a 1.8 m high wire fence and there is an entrance-exit gate providing access to the site. The fence surrounding the sub-project area will be checked before the construction phase, and old and open areas will be repaired and renewed.

The Ministry of Agriculture and Forestry has no objection to the establishment of the proposed 9.99 MWm / 7.68 MWe Solar Power Plant, provided that ornithological monitoring is conducted during construction and for at least two years of operation, and that all activities comply with wildlife protection legislation and the mitigation measures outlined in the Project Description File.

In the settlement where there is a house and a barn 120 m away from the sub-project area, it was determined that a family engaged in small cattle breeding lives. During the consultation meeting with S\* O\*, who resides in the house, it was determined that his livelihood is animal husbandry (Consultation form is presented in Annex J). He was asked his opinion on whether he and his livelihood, livestock breeding, would be negatively affected by the realization of the Şeker Ges sub-project. In this consultation meeting, Serkan OLGUN, who has a barn on the land with the parcel number 7335/1 and whose main source of income is animal husbandry, stated that the sub-project area is surrounded by a wire fence and that his animals rarely enter this area through some damaged parts of the wire fence, but that this area is not used as pasture. He stated that the area they use as pasture is located in Yenidoğan Neighborhood. It is understood that the construction of SPP in the sub-project area will not have a negative impact on livelihood. Designated grazing areas are available in the pasturelands located to the southwest of the sub-project site. These areas are outside the fenced subproject boundaries and will remain accessible for animal grazing activities. Before the mobilization and construction phase of the sub-project begins, the social expert of the consultant company will hold a consultation meeting with the local residents engaged in animal husbandry and identify what their concerns and needs are regarding the sub-project. In addition, during the construction phase of the subproject, it will be noted that unauthorized access to work areas may pose a danger due to labor and occupational safety issues.

The main risks to be encountered during the mobilization and construction phase of the sub-project are dusting due to soil stripping works, disturbances due to noise pollution and traffic congestion and accident risk on Bekir Yıldız Avenue and Alinteri Street, which will be used during transportation.

# INTRODUCTION

## 1.1. Background

The Public and Municipal Renewable Energy Project (PUMREP) (hereinafter referred to as the “Project”) aims to increase the use of renewable energy through self-generation in public facilities. The Project will contribute to expanding the market for distributed RE in public facilities, helping to demonstrate leadership in the public sector to use sustainable energy solutions to fulfill the country's climate mitigation commitment and increase energy security.

PUMREP is financed by the World Bank (WB) to support the deployment of RE technologies in municipalities. İller Bankası A.Ş. International Relations Department (ILBANK) acts as the Financial Intermediary (FI). The project will be implemented through 4 components:

Component 1: Renewable energy investments in central government facilities

Component 2: Renewable energy investments in municipalities

Component 3: Technical assistance and project implementation support

Component 4: Emergency Response Component (CERC).

Kayseri General Directorate of Water and Sewerage Administration (KASKİ) (hereinafter referred to as the “Sub-Borrower”) applied to ILBANK for the sub-financing of KASKİ ŞEKER SPP 8.60 MWe (hereinafter referred to as the “Sub-Project”) under Component 2. The Sub-Project is located on block 7099 and parcel 58 of Şeker Neighborhood in Kocasinan District of Kayseri Province.

ILBANK has established an Environmental and Social Management System (ESMS) effective on 24th of Dec 2023. The ESMS is aligned with the requirements of World Bank (WB) Environmental and Social Framework (ESF, 2018) including Environmental and Social Standards (ESSs) forming part of the ESF, and E&S policies and standards of other International Financial Institutions (IFIs) ILBANK collaborates with. It will be applicable to all ILBANK projects and Sub-project financed through International Financial Institutions (IFIs).

The ESMS aims to ensure systematic identification, assessment, management, monitoring, and reporting of the environmental and social (E&S) risks and impacts of the projects and Sub-project financed by the International Finance Institutions (IFIs). This process will be implemented on an ongoing basis throughout their loan duration in line with the requirements of the national legislation, international agreements and conventions ratified by Türkiye and E&S standards of lending IFIs (World Bank for the PUMREP). As a critical element of the ESMS, ILBANK has adopted and published an E&S Policy<sup>1</sup> applicable to all ILBANK projects and Sub-project financed through IFIs.

Within the scope of the ILBANK’s ESMS and World Bank Environmental and Social Framework (ESF), Sub-project are classified as High Risk, Substantial Risk, Moderate Risk or Low Risk taking into account relevant potential risks and impacts, such as the type, location, sensitivity and scale of the Sub-project; the

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<sup>1</sup> <https://www.ilbank.gov.tr/sayfa/ilbank-environmental-and-social-policy>  
<https://www.ilbank.gov.tr/sayfa/ilbank-cevresel-ve-sosyal-politika-dokumani>

nature and magnitude of the potential E&S risks and impacts; the capacity and commitment of the Sub-borrower; and other relevant areas of risks that may result in unintended impacts.

ILBANK considers financing the Sub-project under the PUMREP. In line with the ESMS, ILBANK carried out an E&S screening and risk classification of the Sub-project and rated the activity as having “Moderate” E&S risk. The Sub-borrower has retained a third-party consultancy company for the preparation of the E&S instruments required as per the E&S risk category assigned to the Sub-project.

This Environmental and Social Management Plan (ESMP) has been prepared by Kolay Enerji Engineering & Consultancy for the Sub-project in line with the applicable E&S requirements as set out in Section 1.3. List of the Individuals/Organizations that Prepared or Contributed to the ESMP development is presented in Annex A.

A stand-alone Stakeholder Engagement Plan (SEP) has also been developed for the Sub-project.

## 1.2.Objective of the ESMP

This ESMP has been prepared to detail the measures to be taken during the implementation and operation (throughout the sub-financing agreement life cycle) of the Sub-project to eliminate or offset adverse E&S impacts, or to reduce them to acceptable levels; and the actions needed to implement these measures.

## 1.3.Overview of E&S Requirements Applicable to the Sub-project

The Sub-project will be implemented in compliance with the requirements of the applicable national legislation and international agreements and conventions to which Türkiye is a party of, and in accordance with the following international requirements:

- ILBANK Environmental and Social Management System (ESMS)
- WB Environmental and Social Framework (ESF, 2018) and the Environmental and Social Standards (ESSs) forming part of the ESF,
- WB Group General Environmental, Health and Safety Guidelines (EHSGs) (2007)
- GIIP
- WB Group EHSGs for Electric Power Transmission and Distribution (2007)

Table 2 identifies the relevance of the WB ESSs to the Sub-project.

Table 2. Relevance of the WB ESSs to the Sub-project

ESSs	Definition	Relevance to the Sub-project
ESS 1	Assessment and Management of E&S Risks and Impacts	Relevant
ESS 2	Labor and Working Conditions	Relevant
ESS 3	Resource Efficiency and Pollution Prevention and Management	Relevant
ESS 4	Community Health and Safety	Relevant
ESS 5	Land Acquisition, Restrictions on Land Use and Involuntary Resettlement	Relevant
ESS 6	Biodiversity Conservation and Sustainable Management of Living Natural Resources	Relevant
ESS 7	Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities	Not relevant in Türkiye
ESS 8	Cultural Heritage	Relevant
ESS 9	Financial Intermediaries	Not relevant to Sub-project
ESS 10	Stakeholder Engagement and Information Disclosure	Relevant

When national requirements differ from the levels and measures presented in the EHSGs, the Sub-project will achieve or implement whichever is more stringent.

#### **1.4. Review and Update**

This ESMP will be reviewed and updated by the Sub-borrower during Sub-project implementation as necessary, to reflect changes in national legislative framework, ILBANK's policies and other developments or in specific circumstances such as in case there are changes in the organization structure, following significant incidents, following incorporation of new tools, software or database into the ILBANK E&S Risk Management System, etc.

The Sub-borrower will notify ILBANK of any updates to the ESMP.

The Sub-borrower will ensure that changes to the ESMP do not result in deviation from the requirements set forth by the national legislation and the E&S requirements applicable to the Sub-project.

#### **1.5. Implementation Arrangements**

The Sub-borrower will hold ultimate responsibility for implementation of this ESMP by the Sub-borrower and contractor teams (engaged in connection with the Sub-project – including sub-contractors) throughout the sub-financing agreement life cycle.

The Sub-borrower will ensure that adequate financial and human resources for effective ESMP implementation are available at Sub-borrower, supervision consultant and contractor organizations throughout the sub-financing agreement life cycle.

The Sub-borrower will decide on the arrangements for the operation of the Sub-project and be responsible for ensuring that operations are compliant with the national legislation and Operation ESMP.

The Sub-Borrower must ensure that all failures that may occur during the 1-year operational phase (during the defect liability period) are covered by the contractor and subcontractor organizations.

The roles and responsibilities of the Sub-borrower, contractor, and sub-contractor teams regarding the ESMP implementation are described in Chapter 0.

## SUB-PROJECT DESCRIPTION

### 1.6.Sub-project Information

The sub-project activity subject is related to the establishment and operation of a photovoltaic (PV) solar power plant (SPP).

Key technical information on the Sub-project is summarized in **Table 3**. Further information on the construction and operation phase activities and facilities is provided in the following sections in this Chapter.

Table 3. Key Technical Information on Sub-project

Information	Remarks/ Notes
Technology	Photovoltaic
Installed Power	9.99 MWp
Connection Power	8.60 MWe
Annual Electricity Generation	17,556 MWh
Solar Panel Type	Monocrystalline
Annual Carbon Emission Reduction	6,380 Tons CO <sub>2</sub> /Year
Lifetime Carbon Emission Reduction	160,000 Tons / for 25 Years
Households Powered	5,850 / 3 MWh per house annually
Economic Life of the Power Plant (Operation Duration)	Min 25 Years

#### 1.6.1. Sub-project Location

The sub-project is located in Kayseri Province, Kocasinan District, Şeker Neighborhood, 7099 Block 58 Parcel and 7099 Block 59 Parcel. The lands belong to KASKI and no land acquisition or expropriation will be required during the construction and operation phases of the subproject. The title deeds of the sub-project area are given in Annex C. Therefore, no land acquisition is required for the ETL.

Information on the Sub-project location is presented in Table 4.

Table 4. Sub-project Location

Information	Remarks/ Notes
Province	Kayseri
District	Kocasinan
Neighborhood/ Village	Şeker
Land Area (ha)	7099/59- 1.002 ha parcel area - all of it will be used 7099/58- 165.8 ha parcel area – 130.002 m <sup>2</sup> sub-project area
Land Use Type according to Title Deed	Field
Current Land Use	Pumping station area covered with soil. Part of the sub-project area is officially used as a pumping station area. There is no informal activity.
Other Nearby Facilities and Activities	Şehit İstihkam Er Suat Özgan Primary School (500 m) Kayseri Sugar Factory (1600 m) Şeker Toki Houses (1000 m) Furniture City Industrial Zone (1900 m)

A map of the Sub-project location is presented in **Figure 2**.

Figure 2. Map of Sub-project Location



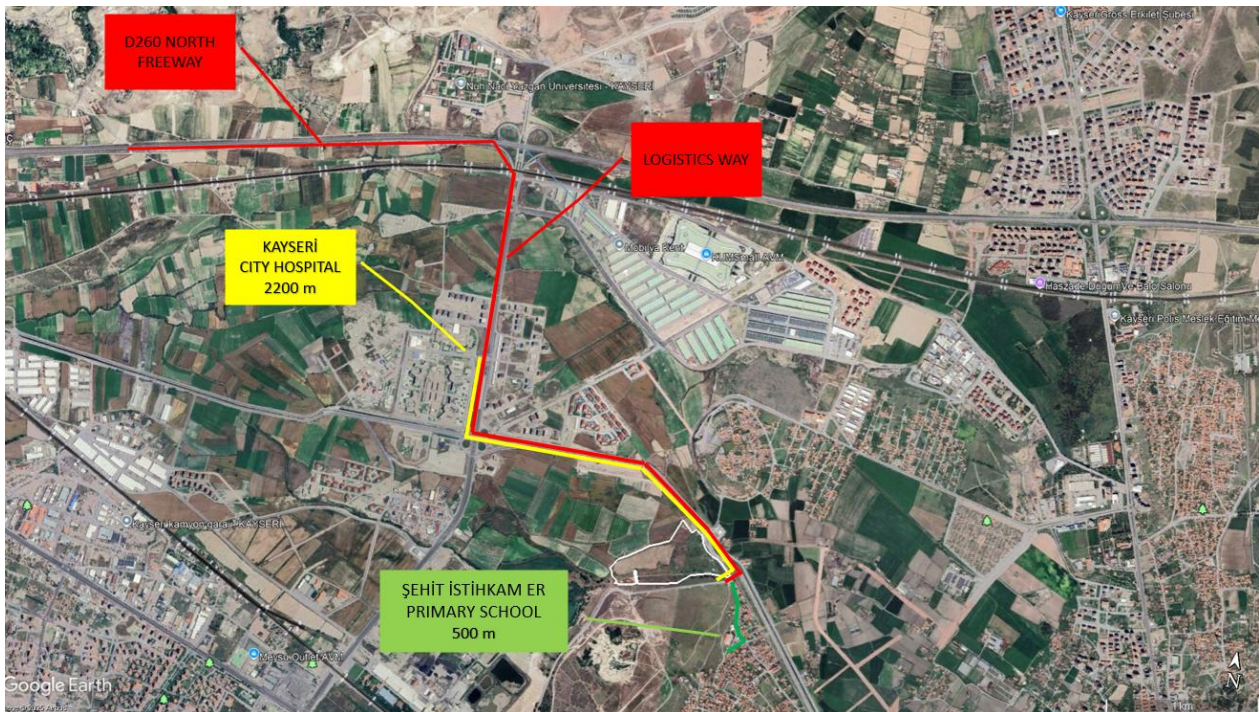
Table 5. Coordinates of the Project Area

Unit	Coordinates (WGS84 in decimals)	
	Y	X
Sub-project Area	38.760381	35.429227

### 1.6.2. Site Access Route

The sub-project area is surrounded by Bekir Yıldız Avenue to the north-east and Alinteri Street extending from east to south. The sub-project area is located at the intersection of Alter Street, which branches off from Bekir Yıldız Boulevard. The roads to be used for logistics and material supply during mobilization, construction and operation phases will not affect any settlement, only the avenue road and connection road will be used. Access to the sub-project area is provided through the entrance gate on Alinteri Street (see Figure 2). There is no residential area on the access road, but there is Kayseri City Hospital 2200 m away on Bekir YILIZ boulevard. There are no places of worship, health centers and social facilities on the Alinteri Street connection road. There is a Şehit İstihkam Er Suat Özgan primary school 500 m from the subproject area, but the primary school road will not be used as an access road. OHS measures (e.g. flaggers and traffic signs and markings) are required to prevent potential traffic risks during the use of long and wide vehicles (see Figure 3). Necessary OHS measures (e.g. flaggers and traffic signs and markings) are required to prevent potential traffic risks during the use of long and wide vehicles.

Figure 3. Sub-project access road Kayseri City Hospital and Primary School location



### 1.6.3. Energy Transmission Line (ETL)

The sub-project includes the construction of a 410-meter underground power transmission line (ETL). Technical information on the ETL is presented in Table 6. A map showing the route of the ETL and the location of the connection to the national grid is given in Figure 4.

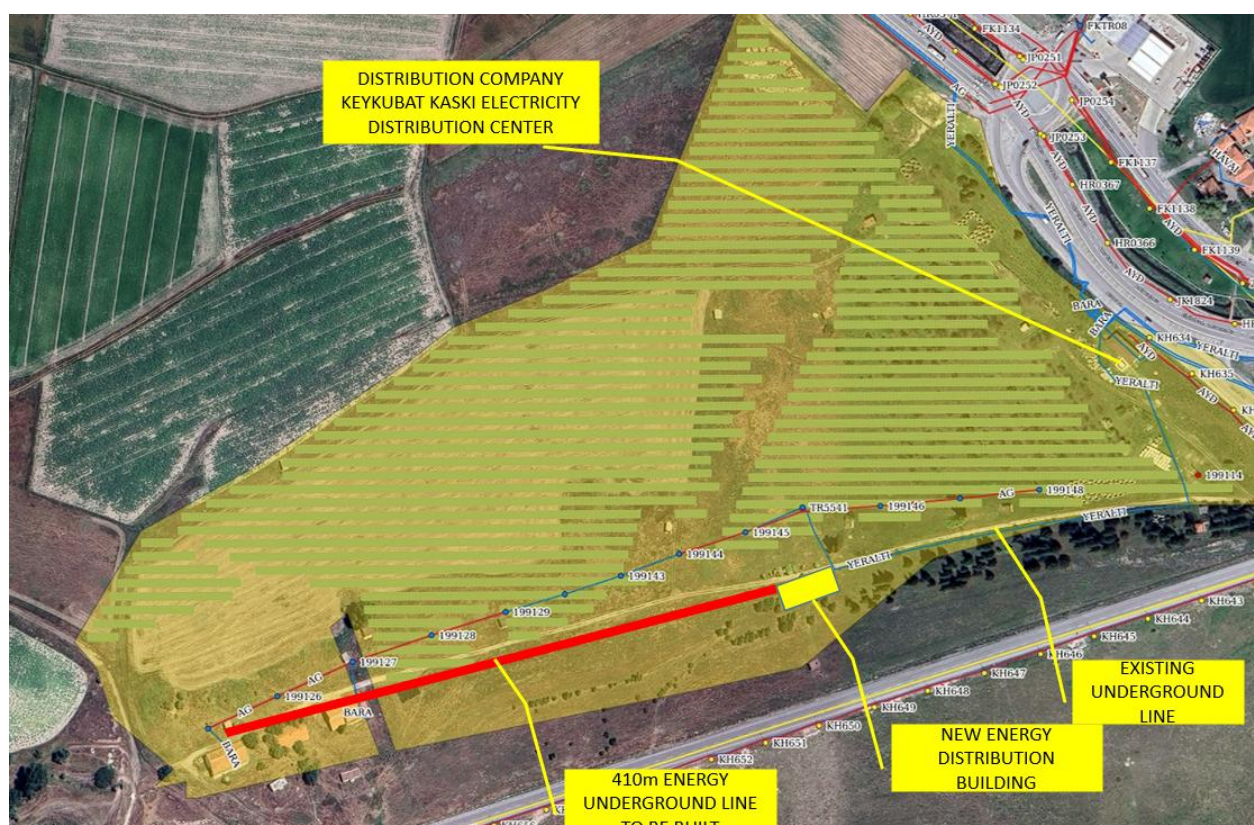
Sub-project, the electricity of the newly established ŞEKER SPP will be connected to the national electricity grid via the existing KASKİ DM HRTR37 in the same area with a 410-meter underground energy transmission line within the SPP site in accordance with the relevant regulations. No other electricity transmission line (overhead line) will be constructed within the scope of the sub-project. The underground energy transmission line (ETL) will pass through parcels 7099/58 and 7099/59 and will not go outside the subproject area. Therefore, there will be no expropriation and land acquisition (Figure 4).

Status of land acquisition for the ETL is described below in Section 3.4.

Table 6. Technical Information on the ETL

Information	Remarks/ Notes
Transformer station (for national grid connection)	KASKİ-DM-HRTR37 Transformer station will be used
Length of the route (km)	Underground energy transmission line (410 meters)
Voltage level (kV)	-
Number of ETL towers (pylons)	None
Total footprint area per each ETL tower (m²)	None
Number of parcels subject to expropriation	None
Number of parcels subject to easement rights	None

Figure 4. Map of ETL Route





### 1.6.5. Sub-project Impact Area

According to the WB ESSs, “where the project includes specifically identified physical elements, issues and facilities likely to generate impacts, environmental and social risks and impacts will be defined as the project impact area (IA).” Thus, the IA of the subproject consists of urban or rural areas likely to be affected by the project, its activities and the facilities directly owned, operated, or managed (including by contractors/subcontractors).

The impact area of the subproject covers the following environmental and social aspects:

The sub-project site, surrounding settlements and access roads were assessed to determine the Area of Impact (IA). When a circle with a diameter of 200 m was drawn from the sub-project area to determine the Area of Impact (IA), the closest settlement was a few houses located within the Yenidoğan neighborhood boundary. Houses in the Yenidoğan neighborhood are approximately 150 m from the subproject area. Considering the environmental and social impacts that will be caused by the Subproject, it has been determined that local people living in these neighborhoods will be affected by dust and noise, especially from topsoil stripping. Therefore, these neighborhoods are included in the EA of the Subproject. In addition, although the Şehit İstihkam Er Suat ÖZGAN primary school, which is 500 m away from the sub-project area, is not located within the sub-project impact area, it has been determined that the roads used for transportation and logistics are not between the roads used by school students. The fact that part of the construction phase coincides with the summer school holidays will ensure that school students will not be affected by dust and noise risks caused by topsoil stripping and steel pile driving works.

Figure 5. Map of Settlements and Facilities Close to the Subproject Area



#### 1.6.6. Environmental and Social Baseline

This section contains information on the environmental and social status of the subproject Impact Area. Some of this information is based on face-to-face interviews with Kayseri KASKİ officials and Şeker Neighborhood Mukhtar on 05.03.2025. In addition, a telephone interview was conducted with the Mukhtar of Yenidoğan neighborhood. Where necessary, data from relevant public institutions and professional organizations were used.

Table 7 presents a summary of the baseline field studies conducted as part of the ESMP study.

Table 7. Summary of Baseline Field Studies

Subject	Date of the Field Study	Experts who Participated in the Field Study
Environmental and Social Site Survey & Meeting with the Mukhtar of Şeker neighborhood	05.03.2025	Environmental Engineer/Expert Social Expert

##### 1.6.6.1. Physical Environment

The sub-project area was reviewed by environmental and social experts and environmental and social baseline conditions were characterized based on literature searches and site visit observations. A survey was not conducted for the sub-project area. Interviews with the mukhtar of Şeker and the mukhtar of Yenidoğan and data received from the institution were used as reference.

###### 1.6.6.1.1. Topography

The sub-project area is located in Kayseri Province, Kocasinan District, Şeker Neighborhood at coordinates 38.760381 and 35.429227, 16 km northwest of the city center. The sub-project area is accessible by road and is located on a plain with a slope of 1°-3° and an altitude of 1043. Infrastructure is provided by the relevant municipality. The sub-project area and its surroundings have a flat topography. In the survey, it was determined that there is no potential for mass movement (landslide, rock fall, collapse, crater, soil flow) and flood and avalanche potential due to precipitation in the sub-project area and its immediate vicinity. This is confirmed by the approved Soil Investigation Report.

Figure 6. Topographic Map



#### 1.6.6.1.2. Geology

According to the report prepared by TMMOB Chamber of Geological Engineers, Kayseri city center is located on a northeast-southwest trending plain at the foot of Mount Erciyes. Geologically, it is largely composed of very young volcanic rocks and alluvial deposits that fill the plain where the city center is located. Below is a geologic map (1/500,000 scale) of the region prepared by the Directorate of Mineral Research and Exploration (MTA), a geologic map of the subproject area prepared by the survey firm, and a section of the earthquake hazard map of Kayseri province prepared by the Disaster and Emergency Management Presidency showing the subproject area (see Figure 7). Kayseri city center is one of the cities with alluvial soils. Earthquake waves are magnified by such soils and transmitted to buildings. This situation, which is defined as ground amplification, means that in the event of an earthquake, Kayseri city center will be shaken more severely than the city centers located on rock type soil units, and as a result, the damage rate will be higher. The edges of this tectonic depression, called the Sultansazlığı check-slip basin, are bounded by active faults, the most important of which are the Erkilet fault zone in the north, the Gesi fault zone, the Yeşilhisar fault zone in the southwest and the Develi fault in the southeast. The Erciyes fault is located in the central part of the basin<sup>2</sup>. The earthquake risk status (PGA475) of the subproject area is 0.186 (see Figure 8), so the earthquake risk is low.

<sup>2</sup> [https://kayseri.afad.gov.tr/kurumlar/kayseri.afad/Egitim/Kayseri\\_IRAP\\_Baski.pdf](https://kayseri.afad.gov.tr/kurumlar/kayseri.afad/Egitim/Kayseri_IRAP_Baski.pdf)

**AÇIKLAMALAR / REMARKS**

Holosen / Holocene	Qal	Alüvyon / Alluvium
Alt Pleistosen / Lower Pleistocene	Opech	Başakpınar Tufu / Tuff
Üst Pliyosen / Upper Pliocene	Plev	Yelilbab İğnimbinti / Ignimbrite
		Dokanak / Contact
		Kesit İzi / Section Trace

N  
↑

MTA Genel Müdürlüğü "Kayseri Kentinin Çevre Jeolojisi ve Doğal Kaynakları" adlı eserinden faydalınarak yapılmıştır.  
Pafta No:K34 c2 -K34 b3  
Yatay Ölçek:1/25000  
Düşey Ölçek:

**AFAD** Türkiye Deprem Tehlike Haritaları  
İnteraktif Web Uygulaması

Adres Sorgulama

Raporlama

Genel Görünüm

Katman Kontrolü

Bilgi Al

Koordinata Göz

Yaklaş

Uzaklaş

Ölçme Aracı

Kaydır

Haritalar Temizle

Yardım

Sıkça Sorulan Sorular

Başlangıç

Üstte Gör

İnçe Gör

Kullanıcı Girişi

Çıkış

Arama...

Enlem: 38.7589718 Boylam: 35.4447479

**SUBPROJECT AREA**

Katman Adı	Değer
Mahalle Sınırı	Yenidoğan Mh.
PGA 475	0.186 g
Enlem	38.760310423195670°
Boylam	35.42878340805514°

PGA 475 (g)

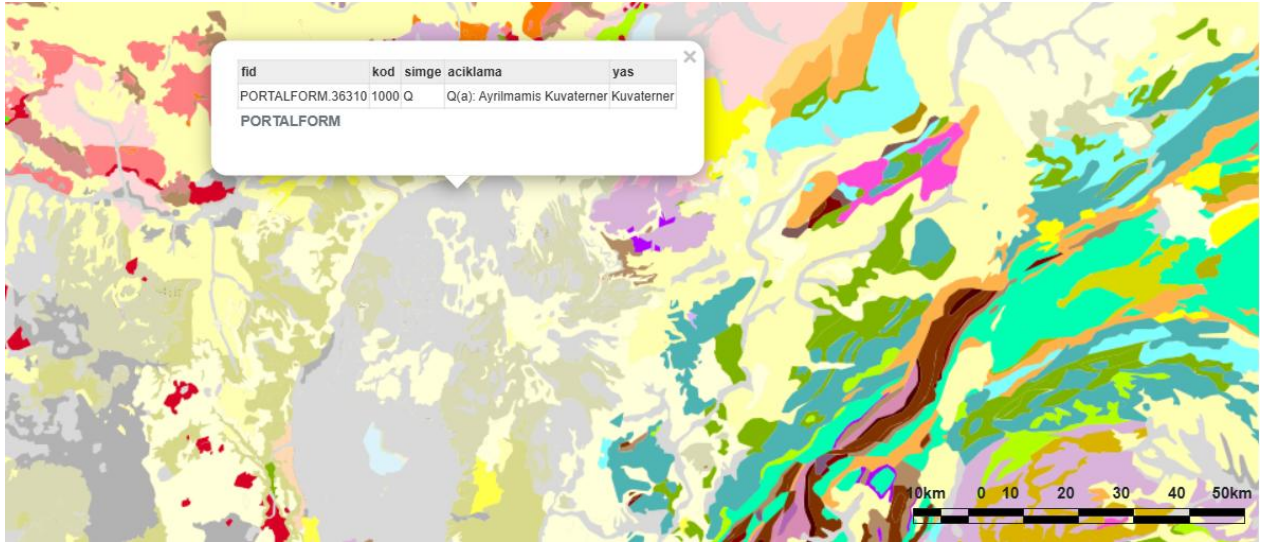
0.1 0.2 0.3 0.4 0.5

Harita Ölçeği

1/9.027

0.2 km

Figure 9. Geology Map of Subproject Area



#### 1.6.6.1.3. Meteorology and Climatic Characteristics

The subproject is within Kocasinan district borders. According to the data of the General Directorate of Meteorology, the summer season in the district is hot and dry, while the winter season is cold and rainy. With this situation, it reflects the characteristics of continental climate, which is the typical climate of the Central Anatolia Region. The hottest months are July and August (40.7°C). The coldest months are December, January and February. Precipitation usually occurs in the fall and spring seasons. The average monthly precipitation of the district is around 23.4 mm. Kayseri province has approximately 3282.57 hours of sunshine throughout the year and an average of 107.77 hours of sunshine per month.

#### 1.6.6.1.4. Air Quality

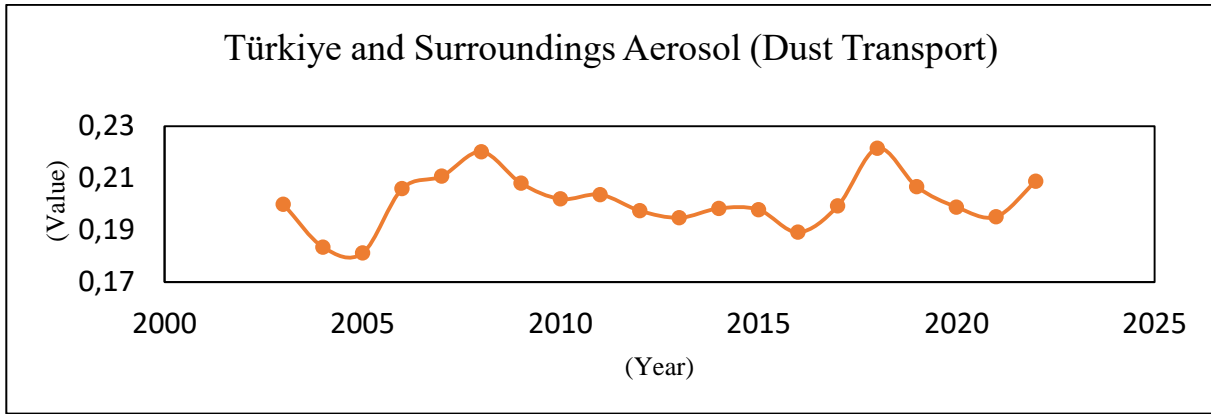
According to the data of the Central Station, which is the continuous monitoring center of the Ministry of Environment, Urbanization and Climate Change, the air quality level is “MEDIUM-(55)” in Kocasinan district. The table dated 21.08.2024 is presented below:

Table 8. Air Quality Monitoring Table

Measurement	Value
PM	1014 µg/m <sup>3</sup>
NO	214 µg/m <sup>3</sup>
CO	172 µg/m <sup>3</sup>

Aerosol (Dust Transport) Analyses of the General Directorate of Meteorology for Türkiye and its Surroundings covering the years 2003-2022 are given below. The average dust value for the region is given as 0.2012.

Figure 10. Aerosol (Dust Transport) Analyses



#### 1.6.6.1.5. Noise

The noise sources near the sub-project area are the Sugar factory (1.6 km away) and Bekir Yıldız Avenue Road to the north-east.

#### 1.6.6.1.6. Water Resources

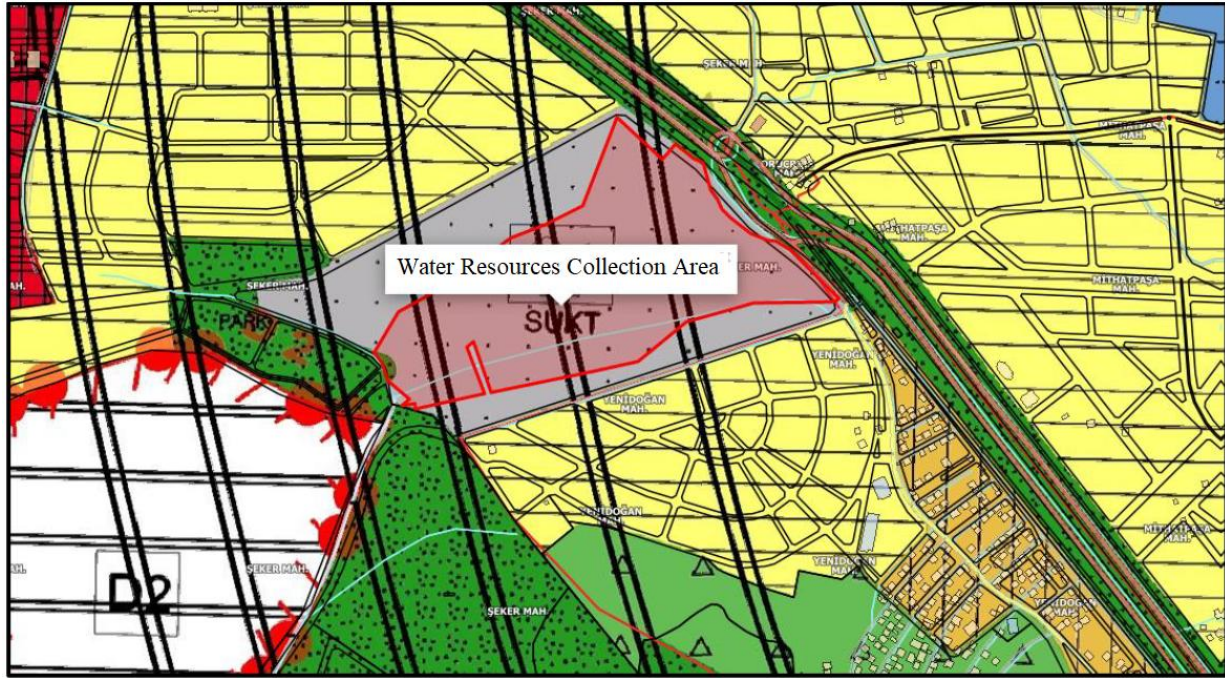
As a result of the investigations conducted in the sub-project area, it was determined that there is no nearby river source. The nearest water source outside the impact area is Kayseri Sugar Factory Pond located 550 m away.

The subproject is located within the groundwater resources catchment area (KASKİ drinking water pumping station area) and there are 12 water wells within the subproject area. The static groundwater level in these wells is 7 m and the dynamic groundwater level is 10 m average depth.

#### 1.6.6.1.7. Natural Hazards (such as flooding, landslides, fire, etc.)

The flood risk map of the General Directorate of State Hydraulic Works indicating that there is no flood and flood risk in the sub-project area is presented in Figure 11 . As stated under the topography heading and presented in the topography map, there are no risks such as landslides, rockfalls, subsidence, soil flow etc. in and around the sub-project area.

Figure 11 Flood and Flood Risk Map<sup>3</sup>



<sup>3</sup> <https://usbs.tarimorman.gov.tr/usbs/VatandasGirisi/Index#>

#### 1.6.6.2. Biodiversity

The subproject area is not located within “National Parks”, ‘Nature Parks’, ‘Nature Monuments’ and ‘Nature Protection Areas’ defined in Article 2 of the National Parks Law and designated in accordance with Article 3 of the said Law. The nearest protected area is Hürmetçi Sazlığı, located approximately 4.5 km to the west of the subproject area.

According to national laws and regulations, the sub-project area is not within “Wildlife Protection Areas, Wildlife Development Areas and Wild Animal Settlement Areas” determined in accordance with the Land Hunting Law; “Cultural Assets”, “Natural Assets”, “Protected Areas” and “Protected Areas” and areas identified and registered in accordance with the Law No. 3386 dated 17/6/1987 and the relevant articles of the same Law; Aquaculture and Breeding Areas within the scope of the Fisheries Law; the areas defined in the relevant articles of the Regulation on Water Pollution Control; areas determined and declared as “Special Environmental Protection Zones” by the President of the Republic pursuant to Article 9 of the Environmental Law; areas considered as forest areas pursuant to the Forestry Law; areas specified in the Law on the Improvement of Olive Groves and Grafting of Wild Olives; areas specified in the Pasture Law; areas specified in the Regulation on the Protection of Wetlands.

Also the subproject area is not located within the areas protected under the “Convention for the Conservation of European Wildlife and Habitats” (BERN Convention) that include “Important Sea Turtle Breeding Areas I and II. Protected Areas, “Mediterranean Monk Seal Habitats and Breeding Areas”, areas protected under the “Convention for the Protection of the Mediterranean Sea against Pollution” (Barcelona Convention), areas protected under the “Convention for the Protection of the Mediterranean Sea against Pollution” (Barcelona Convention), areas included in the list of “100 Coastal Historic Sites of Common Importance in the Mediterranean” published by the United Nations Environment Program, selected in accordance with the Genoa Declaration, “cultural and natural heritage assets” inscribed on the World Heritage List in accordance with Articles 1 and 2 of the Convention for the Protection of the World Cultural and Natural Heritage, and protected areas in accordance with the Convention for the Protection of Wetlands of International Importance, especially as Waterfowl Habitats (RAMSAR Convention) according to international conventions

Within the scope of the studies conducted for the PDF, biodiversity assessments were conducted, and no endemic flora or fauna species were determined within the subproject area.

During the surveys carried out in the sub-project area, it was determined that there are 90 adult apricot trees in the area. As a result of the examinations, it was determined that 7 of these trees were dry and 83 of them were green. It was determined that 6 of these apricot trees have a nest of Sparrow (Passeridae), a local species.

Based on those assessments, it is understood that the subproject area does not contain critical habitats or species that require special protection. Before the construction phase, apricot trees will be uprooted with tree uprooting machines and moved to the Urban Forest Fruit Area located 1.2 km away. The 6 trees with bird nests on them will be moved to the same area after the sparrow (Passeridae) bird breeding period ends. Since soil stripping and excavation and filling works will be carried out during the construction phase, there is a risk of dust formation. Measures such as irrigation will be taken to minimize the negative impacts on birds in their natural habitats. It will be ensured that bird nests are not destroyed and that they are moved after the breeding period.

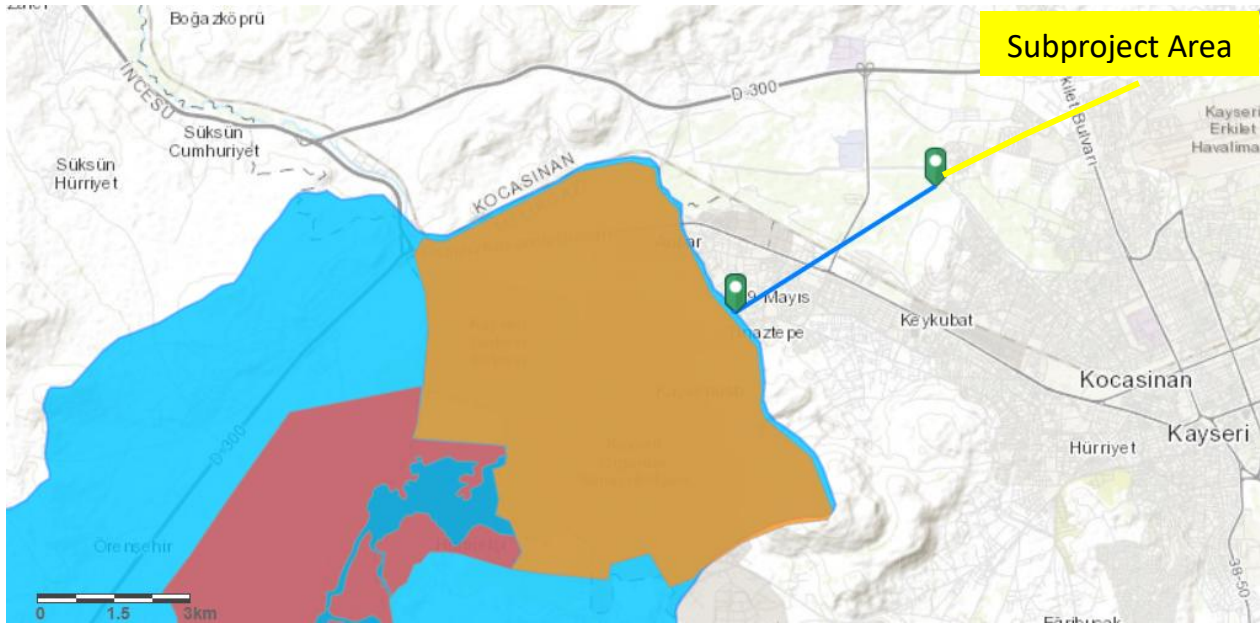
#### **Protected Areas**

The closest protected area to the subproject area is the Hürmetçi Reed Wetland, approximately 4.75 km away. There are no other legally protected and internationally recognized areas near the subproject area. In the sub-project area, only topsoil stripping and 410 m excavation for the power line will be carried out.

Since construction works such as quarry, crushing plant and blasting will not be carried out in the sub-project area, it is unlikely that the solar power plant will directly affect the protection area.

Please see Figure 11 for the nearest protected areas.

Figure 12. Hürmetçi Sazlığı Wetland Protected Area



#### 1.6.6.3. Socio-Economic Environment

The field study on the socio-economic status of the neighborhoods was carried out on 05.03.2025 and a face-to-face interview was conducted with the mukhtar of Şeker neighborhood, and a telephone interview was conducted with the mukhtar of Yenidoğan neighborhood. A significant part of the information in this section is based on the information obtained from this interview.

##### 1.6.6.3.1. Demography and Population

The sub-project area is located within the borders of Şeker neighborhood of Kocasinan District, one of the central districts of Kayseri Province. The sub-project area is located 5.4 km to Kocasinan District, 1 km to Şeker neighborhood, 1.3 km to Yenidoğan neighborhood and 16 km to Kayseri City center. The closest settlement to the sub-project area is Şeker neighborhood of Kocasinan District Municipality. The Mukhtar of Şeker neighborhood stated that the population of the neighborhood is approximately 10 thousand. According to 2024 TurkStat data, the population of Şeker neighborhood is 6585. Yenidoğan neighborhood mukhtar stated that the population of the neighborhood is 24 thousand. According to 2024 TÜİK data, the population of Yenidoğan neighborhood is 11,457. Neighborhood mukhtars stated that the population of the neighborhood exceeds the daytime TUIK data due to private and public enterprises within the borders of the neighborhood. Figure 12 below shows the distance between the sub-project area and Kayseri city center and the distance between the sub-project area and the nearest household.

Figure 13. Closest House to the Subproject Area and Kayseri City Center Map



The sub-project area is located at the intersection of Şeker neighborhood and Yenidoğan neighborhood, and although it is located within the borders of Şeker neighborhood, it is closer to the households in Yenidoğan neighborhood. As can be seen in the figure below, the closest household to the sub-project area is within the borders of Yenidoğan neighborhood and its distance to the sub-project area is approximately 150 meters.

#### 1.6.6.3.2. Land Ownership Status and Land Use by Affected People

There are no affected local communities within the subproject impact area. No land acquisition process will be carried out for sub-project activities. The subproject land belongs to Kayseri KASKI.

Figure 14. Map Showing the Distance of the Sub-Project Area from Şeker, Oruçreis and Yenidoğan Neighborhoods



#### 1.6.6.3.3. Employment and Means of Livelihood

According to the information obtained from the mukhtars of Şeker and Yenidoğan neighborhoods, the livelihood of households in the neighborhood is industrial labor. There is a sugar factory in Şeker neighborhood where 400 people work. It was stated that residents of both neighborhoods work in this factory. In addition, residents of the neighborhood also work as workers in Kayseri Organized Industrial Zone and other industrial facilities.

#### 1.6.6.3.4. Education and Health Services

According to the information obtained from the mukhtar of Şeker Neighborhood, the neighborhood has a kindergarten, a primary school, a secondary school and two high schools, one of which is a science high school and the other an Anatolian high school. The nearest school is the Şehit İstihkam Er Suat Özgan Primary School within the boundaries of Yenidoğan neighborhood, 500 meters from the sub-project area.

There is one Family Health Center in Şeker Neighborhood and Kayseri City Hospital, the largest hospital in Kayseri province, is also located in this neighborhood. The headman of Yenidoğan Neighborhood stated that there is no health institution in the neighborhood and that they receive services from the Family Health Center in the neighboring Ziya Gökalp Neighborhood and Kayseri City Hospital located within the borders of Şeker Neighborhood.

#### 1.6.6.3.5. Infrastructure Services

Both neighborhoods have drinking water, sewerage network and electricity infrastructure. Domestic wastes are regularly collected and disposed of by Kocasinan Municipality.

#### 1.6.6.3.6. Transportation and Traffic

According to the information received from the neighborhood mukhtars, there is public transportation service in the neighborhood. Transportation is provided by buses belonging to Kayseri Metropolitan Municipality and Kocasinan District Municipality.

Transportation to the subproject area will be provided by the main route of D260 Northern Ring Road. The transportation road, which is planned to be used, is already used as a transportation road and there is no need for any road improvement works. As can be seen in Figure 155, transportation vehicles will turn from Kayseri West Junction on the D260 Northern Ring Road to Muhsin Yazıcıoğlu Boulevard, then access the subproject area via Bekir Yıldız Boulevard after passing Kayseri City Hospital.

Figure 15. Access Road of Subproject Area



#### 1.6.6.3.7. Cultural Heritage (Tangible and Intangible)

Kayseri Regional Directorate for the Protection of Cultural Assets has stated in the opinion letter in the Annex B that there are no cultural assets in the subproject area. A Chance Find Procedure has been prepared and presented in the Annex H to be applied in case of any findings during the construction phase. Construction activities will be carried out according to this procedure.

#### 1.6.6.3.8. Vulnerable and Disadvantage Groups

As a result of the interview with the mukhtar of Şeker Neighborhood, vulnerable and disadvantaged groups in the neighborhood were identified as follows:

Table 9. Vulnerable and Disadvantaged Groups of Şeker Neighborhood

Group	Number	Explanation
<b>Disabled Individual</b>	16	It is learned that there are 16 disabled people in the neighborhood, 13 physically and 3 mentally.
<b>Over 65 Years of Age Living Alone</b>	22	It was learned that 22 women over the age of 65 live alone in the neighborhood.
<b>Immigrants and Refugees</b>	6	The mukhtar shared the information that there are 6 women in the neighborhood who lost their husbands, live with their children, are responsible for providing for the household and need economic support.

As a result of the interview with the mukhtar of Yenidoğan neighborhood, vulnerable and disadvantaged groups in the neighborhood were identified as follows:

Table 10. Vulnerable and Disadvantaged Groups of Yenidoğan Neighborhood

Group	Number	Explanation
<b>Disabled Individual</b>	57	The muhtar informed us that there are 57 people with disabilities in the neighborhood, 41 of whom are physically and 16 of whom are mentally disabled.
<b>Over 65 Years of Age Living Alone</b>	27	The neighborhood headman stated that there are 2 Syrian and 25 Afghan immigrant families living in the neighborhood.
<b>Immigrants and Refugees</b>	3	The muhtar shared the information that there are 3 women in the neighborhood who lost their husbands, live with their children, are responsible for providing for the household and need economic support.

# SUB-PROJECT ACTIVITIES

## 1.7. Construction Phase

### 1.7.1. Construction Activities

Construction activities will be completed in 8 (eight) months. Detailed implementation schedule envisaged for the construction phase activities (including provisional acceptance) is presented in Chapter 0.

Construction phase activities are briefly described below:

- Pre-construction activities:

Since the sub-project area is not hilly and consists of surface soil, only topsoil stripping will be carried out during the site preparation phase. Apricot trees in the sub-project area will be transported to Kayseri Urban Forest Fruiting Area in the appropriate season with a tree uprooting machine.

- Construction/ installation activities:

During the construction phase of the sub-project, fencing of the work area will prevent unauthorized access and ensure occupational and community health and safety. The current perimeter fence will be checked before the construction works start and any frayed or openings will be replaced. A temporary camp area consisting of an office, dining hall, WC and security hut will be set up for use by staff working on the sub-project. The steel construction will be installed on the ground in the sub-project area by drilling holes with a pile driving machine (Rock machine). Solar panels will be installed on the steel structure. The electrical cables between the panels will be laid on the ground surface using cable ducts instead of being buried. After the steel construction and panel installation is completed, the energy connections will be connected to the distribution center substation to be established within the sub-project area. The energy connection between the distribution center transformer building and the sub-project area will be made with underground cables by excavating approximately 410 meters.

- Construction machinery and equipment:

Pile driving machine (Rock machine), grader, water truck, forklift, crane, and backhoe loader will be used during the construction phase of the sub-project.

- Water use and wastewater management:

Dust generation is foreseen as topsoil stripping and excavation/filling will be carried out during the construction phase. In addition, the roads providing access to the sub-project area from outside will be covered with asphalt and will not generate dust due to vehicle mobility and transportation. However, vehicle mobility within the sub-project area will also cause dust formation. Therefore, as an additional measure, irrigation will be carried out in the sub-project area, water source and water tanker will be needed. The Contractor will use the water source determined and permitted by KASKİ and irrigate the sub-project area at regular intervals to prevent dust formation. The closest surface water source to the sub-project area is Kayseri Sugar Factory Pond, approximately 550 m away. No impact on Kayseri Sugar Factory Pond is expected to occur due to the sub-project works.

The sub-project works will not affect groundwater resources. There is a water network in the existing KASKİ drinking water pumping station area and domestic water needs during the sub-project will be provided from the existing water network. The drinking water needs of the employees will be met with bottled water. A sealed septic tank will be used for wastewater disposal and waste water will be collected in the septic tank. The domestic wastewater treatment plant located 12 km away from the sub-project study area will provide wastewater disposal. Wastewater will be regularly transported to the wastewater treatment plant by KASKİ's vacuum trucks.

- Waste and hazardous materials management:

The construction process will generate various types of waste, including general construction debris, packaging materials and small amounts of damaged or unused panels containing hazardous

materials. Hazardous materials consist primarily of fuels and oils used for machinery. All waste will be handled in accordance with local regulations and hazardous materials will be properly stored and disposed of in accordance with environmental standards.

- Use of other resources and materials:

There will be no backfilling and no hazardous chemical substances will be used during the construction phase. In case of need, it is envisaged to use concrete in quantities to be procured from local suppliers. The fuel for the construction machinery to be used during the construction phase will be procured from suppliers, no fuel will be stored within the sub-project site and no fuel storage tank will be installed.

- Supply of materials and equipment:

- Panels: Panels will be procured from domestic manufacturers that meet high efficiency and durability criteria. Preference will be given to photovoltaic panels produced in Türkiye to ensure cost advantages and support the local industry.
- Steel Construction: Durable steel structures suitable for field conditions will be sourced from domestic manufacturers. Long-lasting coatings against corrosion and materials in compliance with engineering calculations will be used.
- Inverters: Inverters will be procured from foreign suppliers, considering criteria such as efficiency, warranty period, and technical support. The choice between central or string inverters will be determined based on site requirements.

Other Electrical Equipment (Solar Plant Materials):

- Cables and Cable Management Systems: Locally produced solar cables of appropriate cross-section will be used for both DC and AC sides. Cable trays and conduit systems will also be sourced from domestic suppliers.
- Transformer and Switchgear Equipment: Transformer stations suitable for power transmission lines will be planned using domestic production. Circuit breakers, disconnectors, and other electrical protection systems to be used in the switchyard will be supplied from local manufacturers.
- Grounding and Lightning Protection: Locally produced grounding rods, conductors, and lightning protection systems will be used to ensure the safety of the solar plant.
- Monitoring and Supervisory Control and Data Acquisition (SCADA) Systems: Local software and hardware will be preferred to enable facility performance monitoring.
- Supply Planning: Considering cost, quality, logistics, and procurement timelines, all equipment except inverters will be sourced from domestic manufacturers. For imported inverters, reliable international companies will be selected.

- Test and commissioning

Before the solar power plant is put into operation, a series of tests and commissioning procedures will be conducted to ensure safe and efficient performance. The key steps include:

- Visual and Mechanical Inspections: Verification of proper installation of panels, mounting structures, cabling, and other equipment.
- Electrical Testing: Insulation resistance tests, continuity checks, and voltage measurements to confirm proper wiring and grounding.
- Inverter Commissioning: Configuration, functional checks, and synchronization of inverters with the domestic grid frequency.
- Performance Testing: Measurement of power output under different conditions to verify system efficiency.

- Protection and Safety Tests: Checking circuit breakers, surge protection devices, and relay settings to ensure electrical safety.
- SCADA and Monitoring System Integration: Testing remote monitoring, data logging, and communication with the grid operator.
- Final Grid Connection and Approval: Coordinating with the utility company for final inspections and obtaining the necessary approvals for grid connection.

All tests will be conducted in compliance with international and local standards to ensure the reliability and long-term performance of the solar power plant.

- Decommissioning of temporary construction facilities

After the completion of the solar power plant construction, all temporary facilities used during the project will be systematically dismantled and removed. The key steps include:

- Dismantling of Temporary Structures: Offices, storage units and other temporary buildings will be disassembled and removed from the site.
- Removal of Construction Equipment and Materials: Any remaining construction materials, scaffolding, and machinery will be transported off-site or repurposed.
- Site Cleaning and Waste Management: Construction debris and packaging materials will be properly collected, sorted, and disposed of in accordance with WB ESSs and environmental regulations.
- Land Restoration: The project site will be restored to its planned operational state, ensuring compliance with environmental and aesthetic requirements.
- Final Inspection and Handover: A final site assessment will be conducted to confirm that all temporary facilities have been removed and the area is ready for long-term solar power plant operation.

All decommissioning activities will be carried out in accordance with local regulations and Good International Industry Practice.

There will be no activities related to the Subproject outside the scope of the proposed financing.

### 1.7.2. Construction Facilities

Construction facilities to be used during construction activities are listed in Table 11.

Temporary construction facilities will be dismantled and removed from the site after the sub-project construction phase is completed. Waste generated during the dismantling of temporary construction facilities will be separated according to the ESSs and national legislation and disposed of if necessary.

Table 11. Construction Facilities

Type	On-site or Off-site	Temporary or Permanent	List of Facilities
<b>Construction Camp Site</b>	On-site	Temporary	<ul style="list-style-type: none"> <li>• Office container</li> <li>• Toilets and connected septic tank.</li> <li>• Dining hall container</li> <li>• Security lodge</li> </ul>

A layout of the construction camp site is presented in **Figure 16**.

Figure 16. Construction Camp Site Layout



## 1.8. Operation Phase

### 1.8.1. Operation Activities

#### 1. Operation and Maintenance (O&M):

- Routine Inspections: Regular checks will be carried out on panels, inverters and electrical components.
- Preventive and Corrective Maintenance: Repair and replacement of defective parts will be carried out when necessary.
- Monitoring Systems: SCADA and Energy Monitoring Systems will be used to monitor plant performance.

#### 2. Panel Cleaning:

- Water-Based or Dry Cleaning: Panels are cleaned with soft brushes, water or robotic cleaners using machines specially built for use with solar panels only. Panel cleaning will be done with water only, no chemical cleaners will be used.
- Water Source: Water from local sources or storage tanks.
- Cleaning Equipment: Non-abrasive tools (cloths, sponges or brushes, etc.) or robotic systems.

#### 3. Vegetation Control:

- Mowing/Crushing: Regular removal of weeds and vegetation will be ensured.

#### 4. Site Security:

- Fencing and Gates: A secure perimeter will be created with controlled access.
- Security Guards and Closed-Circuit Television (CCTV): On-site guards and surveillance cameras for monitoring.

#### 5. Control Building and Systems:

- Control Room: Monitors plant performance and manages system alarms.
- Communication Systems: Used for coordination and emergencies.

### 1.8.2. Operation Facilities

Operation facilities are described in Table 12.

Table 12. Operation Facilities

Component	Characteristics
Solar panels	Monocrystalline 545 Wp Panel
Mounting structures	Galvanized Steel and Aluminum Fixed Tilt Structure
Inverters, transformers, etc.	110 kW On-Grid Inverter PID Protective Smart String Inverters, Hermetic Power Transformer Autoproducer Switchgear, DC Solar Cables, AC Cables, Auto TMS, SPP Specialized Electrical Panels with Circuit Breakers and Disconnectors.
Control room, building, system, etc.	Remote Control SCADA System, Energy Monitoring and Management System, Inverter Control Panels Aka Dataloggers, Protection and Security Systems such as Fire Detection and Suppression Systems, CCTV Systems and Alarm Systems. Communication and Remote Internet Access Systems, Backup Power Systems, Climate Control Systems.
Energy monitoring system	SCADA and Datalogger Smart Inverter Compatible Energy Monitoring System Tracks the Performance of Solar Panels, Helps in Fault Detection and Maintenance Planning. It Would Monthly Generate Performance Reports.

Grounding system	TT system Grounding Rods, Grounding Conductors, Grounding Busbar, Equipotential Bonding Bar
Lightning protection system	Lightning Rods Mounted on High Metal Poles Which Connected to Power Plant's Grounding Line to Protect and Avoid Lightning-Induced Overvoltage.
Fire preparedness and firefighting facilities	Overcurrent Protection Devices (Fuses and Circuit Breakers) Integrated Equipment, Arc Fault Circuit Interrupters (AFCI), Portable Fire Extinguishers, Automatic Fire Suppression Systems (FM-200, CO2, Water-Based, Or Foam-Based Systems), Water Sprinkler Systems
Security facilities	Shift Patterns On-Site Security Guards, Main Entrance Gates, Security Gates, Vehicle Access Control, Remote Monitoring CCTV Surveillance Systems, Perimeter Lighting, Two-Way Radios.

### 1.9.Labor Requirements

Number of workers (at peak) that will work on site during the construction and operation phases of the Sub-project are provided in Table 13. During the construction phase of the Subproject, workers will be transported to the work site by shuttles.

Table 13. Labor Requirements of the Sub-project

Phase	Number of Workers (including contractors and subcontractors)	Planned Accommodation Arrangement
Construction Workers (at peak)	40 People	Off-site
Operation Workers (at peak)	1 Person	KASKI staff/Off-site

### 1.10. Land Acquisition Status

The parcel required for the Kayseri KASKİ ŞEKER-GES 8.60 MWe sub-project has been the property of Kayseri KASKİ since 2006. The total area of the parcel is 165,796.25 m<sup>2</sup>, of which 130.002 m<sup>2</sup> is reserved for the sub-project area. In addition, no land acquisition is required for the energy transmission line. 410 meters of underground energy cables will be laid in 7099 block 59 parcel and this parcel is also owned by Kayseri KASKİ and connected to the transformer building to be established within KASKİ ŞEKER-GES. No land acquisition will be required for the construction and operation phases of the sub-project. Information on the sub-project land is given below:

Land acquisition status of the parcel to be used by the Sub-project is summarized in Table 14.

Table 14. Land Acquisition Status for the Sub-project

Sub-project Component	Lot/ Parcel No.	Current Land Ownership	Type of Parcel (according to Title Deed)	Land Acquisition Method	Title Deed Area of the Parcel (m <sup>2</sup> )	Area to be Used by the Sub-project (m <sup>2</sup> )	Status of Land Acquisition
SPP Area	7099/58	Kayseri KASKI	Field	None	165.796,25	130.002,00	The parcel has been under the ownership of Kayseri KASKİ since 2006. Kayseri KASKI ŞEKER-SPP

							8.60 MWe sub-project is planned in Kayseri province, Kocasinan district, Şeker neighborhood, 7099 block 58 parcel. The parcel in question has an area of 165.796,25 m2 and 130.002,00 m2 of it will be used for the project area. The title deed of the parcel is given in the Annex C.
ETL	7099/59	Kayseri KASKI	Field	-None	1.002,33		Underground energy cables (410m) will be laid in 7099 block 58 and 59 parcels and connected to KASKI-Şeker SPP transformer building.

### 1.11. Permitting Status

The status of permits, licenses and approvals that need to be obtained before the subproject construction phase starts is presented in Table 15.

Table 15. Status of Permits for the Construction Phase

Permit, License, Approval	Status (In place, Not in place)	Remarks/ Notes
EIA Decision for the Power Plant	In place	Annex II activity as per the EIA Regulation in force (Official Gazette Date: 29.07.2022; Official Gazette No: 31907)  EIA is not Required Decision (Decision Date: 09.03.2023; Decision No. 27332451 220-02 E-2023147) has been secured from the Kayseri Governorship Provincial Directorate of Environment, Urbanization and Climate Change– Annex B.

		(*) Decision shall be considered invalid in case the investment is not initiated within <b>5 years</b> of the Decision without any force majeure.
Zoning plan approval	In place	With the decision of Kayseri Metropolitan Municipality dated 11.01.2023 and numbered 5, a zoning plan change decision was made on the parcel containing the subproject area. The decision is presented in the Annex B.  With in decision of Kocasinan Municipality dated 29.08.2023 and numbered 12338, a zoning plan change decision was made on the parcel containing the subproject area. The decision is presented in the Annex B.
Permit for non-agricultural land use	In place	The opinion of Kayseri Governorship Provincial Directorate of Agriculture and Forestry dated 05.01.2023 and numbered 8438391 is attached as Annex B.
Cultural Heritage Protection Board	In place	The opinion of the Kayseri Cultural Heritage Protection Regional Board of the General Directorate of Cultural Heritage and Museums of the Ministry of Culture and Tourism will be presented in Annex B.

Status of permits, licenses, approvals required for operation phase are listed below:

- Obtaining Construction License and Fire Safety Report from Kayseri Metropolitan Municipality
- Electricity Generation License Application, Call Letter and Connection Agreement with the Relevant Grid Operator
- Preparation of Electrical, Mechanical and Related Engineering Projects for the Approval of the Relevant Energy Company and Obtaining University Expert Approval for Structural Projects

## ESMP MATRIX: RISK AND IMPACTS, MITIGATION AND MONITORING

As the Sub-project involves both construction and operation activities, the ESMP consist of two components applicable to respective Sub-project phase, as follows:

- Construction ESMP Matrix
- Operation ESMP Matrix

Roles and responsibilities related to implementation of this ESMP is defined in Section 1.19.

Implementation arrangements for ESMP implementation are described in Section 1.5.

Contractor's E&S management plans and procedures that will support implementation of the E&S assessment documents are listed in Section 1.16.

### 1.12. E&S Risk and Impacts of the Sub-project

This section identifies potential environmental and social impacts and risks that may arise from Subproject activities during construction and operation phases.

Sub-Project activities are generally categorized as follows:

- Construction phase,
- Operation phase,

The overall potential environmental and social impacts expected for the Subproject are presented below.

#### 1.12.1. Construction Phase

##### 1.12.1.1. Environmental Impacts and Risks

During the construction phase, 410 meters of excavation and filling works will be carried out as the sub-project area consists of topsoil stripping and underground energy transmission line will be constructed. Therefore, environmental impacts will be limited to dust generation, noise and waste generation. In addition, there are fruit trees and bird nests on 6 (six) trees in a part of the sub-project area. There is a risk that the breeding periods of the birds will be adversely affected and the fruit trees will be moved for relocation and dried up as a result of these operations.

##### 1.12.1.1.1. Soil Contamination

The fact that the sub-project area consists of soil, failure to respond to accidental fuel and oil leaks (caused by fuel and engine oil used in construction machinery) in a timely manner may result in the risk of fuel and oil flowing into the soil. Due to the use of heavy machinery during the construction phase, accidental fuel and oil spills in the sub-project area may pose a risk of soil pollution. Uncontrolled storage or disposal of solid and/or liquid wastes to be generated within the scope of the Subproject may cause soil pollution risk.

##### 1.12.1.1.2. Impacts on Biodiversity

During the construction phase, there is a risk of drying out of 90 apricot trees in the sub-project area due to damage and/or relocation to the Urban Forest Fruit Area 1200 meters away. In addition, it has been determined that there are sparrow bird (Passeridae) nests on 6 apricot trees, and they will be negatively affected by tree transportation works if the tree removal work is carried out during the breeding period. During topsoil stripping, the vegetation cover consisting of weeds and non-critical natural habitats in the area will be adversely affected.

Among the risks that may occur for birds, there may be negative impacts such as damage to nests and young individuals due to the stripping of surface soil, decrease in the population of the species due to the decrease in reproductive success, and negative impacts such as population decrease due to the reduction of bird species due to the reduction of the roaming area and feeding areas due to the dust and noise that will occur during the stripping of surface soil. In addition, negative impacts may occur such as birds feeding on plant seeds and pollen leaving the habitat due to dust covering/damage to plants.

Risks for reptiles and frogs include damage to nests and young individuals due to the stripping of topsoil, a decrease in the population of the species due to reduced reproductive success, and a decrease in the population of reptile species due to the reduction of circulation space and feeding areas due to the dust and noise generated. In addition, dust generation may cause negative effects such as damage to the invertebrate fauna in the environment and consequently a decrease in the food sources of herpetofauna elements.

Among the risks that may occur on mammals, it may cause negative effects such as damage to nests and young individuals due to stripping of surface soil, decrease in the population of the species due to the decrease in reproductive success, and negative effects such as population decrease due to the reduction of the roaming area and feeding areas of large mammal species due to dust and noise generated during the stripping of surface soil. With the risk of increased anthropogenic pressure on fauna, it may cause impacts

such as damage to species fertilization / offspring formation / eggs etc. during the reproductive periods of species.

Necessary mitigation measures to prevent/reduce the impacts on biodiversity are presented in Section 1.13 and 1.14 Construction and Operation ESMP matrices.

#### 1.12.1.1.3. Dust and Exhaust Gases Emission

During the construction phase, dust formation will occur due to topsoil stripping. There is a risk that people in the nearby settlement and primary school students at a distance of 500 m will be adversely affected by dust formation. During construction, there will be exhaust emissions from heavy construction machinery. The primary emissions from vehicle exhaust gases are NO<sub>2</sub>, CO, HC, SO<sub>2</sub> and PM. Exhaust emissions are expected to be minimal due to limited use of vehicles and machinery.

#### 1.12.1.1.4. Noise Pollution

Noise pollution may occur during the construction phase due to the operation of heavy machinery and especially the driving of steel poles into the ground, and there is a risk that primary school students may be adversely affected by noise.

#### 1.12.1.1.5. Impacts Associated with Water, Energy and Raw Materials Use

Employee needs will create water supply requirements. Construction phase activities will require consumption of resources such as concrete, reinforcement, structural steel, energy, etc. The risk of human pollution from construction camps due to construction works and wastewater generation from workers may affect surface water and groundwater quality, especially where the Subproject is close to the Kayseri Sugar Factory Pond.

#### 1.12.1.1.6. Waste

During the construction phase of the Subproject, activities such as procurement, transportation and installation of panels, electrical cables, steel materials and equipment will be carried out. The types of solid waste expected to be generated from these activities include municipal solid waste, packaging waste from system equipment (e.g. wood, cardboard, plastic, etc.), hazardous waste, electronic waste, construction waste (e.g. scrap metal, wood, concrete waste, etc.) and waste system equipment (panels, cables, electronic components). Hazardous and special waste may include contaminated packaging materials and rags contaminated with chemicals (e.g. paints, solvents, panels, inverters, etc.) or oils, waste oils from the operation and maintenance of machinery and vehicles, solvents, accumulators, batteries, filters, machine parts.

There is also a risk of uncontrolled discharge of domestic wastewater generated by the needs of workers.

### 1.12.1.2. Social Impacts and Risks

#### 1.12.1.2.1. Occupational Health and Safety and Labor

Construction works can cause incidents and accidents that may threaten the health and safety of workers if measures are not taken proactively.

Potential health and safety risks during the construction have been listed below.

- Extreme weather conditions

- Working at height,
- Moving objects and construction equipment
- Hand and Power Tools
- Slips and trips and falls
- Noise vibration and exposure to dust,
- Materials handling and ergonomics,
- Unintended collapse, lifting and rigging bulky materials,
- Electric shock,
- Lack of use of appropriate personal protective equipment,
- Traffic related risks due to increased traffic and commute to work
- Unauthorized access to the facility
- Associated risk of occupational accidents, injuries, and diseases,

Hazards due to unhygienic or unsanitary living conditions, etc. Occupational health and safety risks and mitigation measures will be managed in line with the Subproject's Labor Management Procedure and OHS Management Plan which is in line with national legislation, Occupational Health and Safety Law (Law No: 6331, Effective Date: 20/06/2012) and related OHS Legislation, World Bank ESS2 and World Bank Group General Environmental Health and Safety Guidelines.

#### 1.12.1.2.2. Community Health and Safety

The subproject will benefit the community in terms of improved access to municipal services, which may increase local job opportunities. However, there may also be impacts such as accidents, pressure on existing social infrastructure, and exposure to Sexual Exploitation and Abuse and Sexual Harassment (SEA/SH) risk and diseases due to labor influx. The sub-project has identified the following potential Community Health Safety (CHS) impacts resulting from the construction phase.

Accidents caused by unauthorized access of community members (especially children) to sub-project site (both construction and operation phases)

Road damage in transportation and traffic; increased risk of traffic and road accidents and injuries,

Emergencies resulting from contextual risks (e.g. earthquakes, fires, etc.)

Noise and vibration,

Increased demand on existing community health and sanitation infrastructure due to the influx of temporary workers,

The threat to community culture, safety and security posed by the presence of construction workers and business opportunists,

Impacts due to labor influx and interaction of temporary workers with the community (such as sexually transmitted diseases (STDs), Sexual Exploitation and Abuse and Sexual Harassment (SEA/SH) risk,

#### 1.12.1.2.3. Labor and Working Conditions

A maximum of 40 people will work during the subproject construction phase. Although local employment will be prioritized, there is a small risk of an influx of workers.

Working and accommodation conditions will need to comply with World Bank standards (ESS 2).

#### 1.12.1.2.4. Traffic

Access to the sub-project area is provided by Bekir Yıldız Avenue and Alinteri side road. During the construction phase, roads through settlements will not be used for procurement and transportation processes. However, the logistics process may cause negative impacts and risks, such as temporary traffic congestion during peak hours, increased risk of traffic accidents involving other vehicles, pedestrians or motorcycles, delays in accessing emergency vehicles due to traffic congestion, short-term air pollution and noise emissions from construction vehicles. Transition of large and long transportation vehicles from Bekir Yıldız Avenue to Alinteri side road may cause traffic congestion and risk of accidents.

#### 1.12.1.2.5. Loss of Land and Livelihoods

As no land acquisition process will be carried out within the scope of the subproject, no negative impact on land is expected. Therefore, there will be no negative impact on livelihoods.

#### 1.12.1.2.6. Vulnerable Groups

The subproject will not have any social negative impacts on the lives of specific vulnerable groups such as persons with disabilities, children, elderly, refugees and livelihood dependent groups. The subproject will have no impact on daily life and habits in the nearest settlement.

#### 1.12.1.2.7. Cultural Heritage

As stated in the Existing Environmental and Social Status section, there are no registered cultural heritage sites in and near the subproject area. Therefore, no negative impact on cultural heritage is expected during the construction phase. However, if any findings are identified during construction activities, the Chance Find Procedure will be applied (see Annex H).

#### 1.12.1.2.8. Technical and Social Infrastructure Services

Considering the existing Environmental and Social Status data and the construction duration of the subproject, no negative impact on technical and social infrastructure services in the region is expected during the construction phase of the subproject.

### 1.12.2. Operation Phase

#### 1.12.2.1. Environmental Impacts and Risks

During the operation phase, environmental impacts and risks will be limited to the production of domestic waste and domestic wastewater generated by 1 personnel working at the facility.

#### 1.12.2.1.1. Waste

There is a risk that the wastes (electronic wastes, panels, inverters, cables, electronic components) generated after maintenance-repair and breakdowns are not regularly stored and disposal processes are not carried out in accordance with national legislation and World Bank ESSs.

In addition, there is a risk that the domestic waste generated by 1 personnel working at the facility will not be collected by the municipality and the domestic wastewater will be discharged uncontrolled and cause environmental pollution.

#### 1.12.2.2. Social Impacts and Risks

Due to the sub-project's location and nature, social impacts and risks are limited during operation phase.

##### 1.12.2.2.1. Occupational Health and Safety

Potential health and safety risks for the operational phase of the subproject are listed below:

- Working at height: Risk of falling from height during maintenance and repair of panels
- Electricity: Risk of electric shock, arc flash and insulation breakdown in cables and failure to follow "Lock Out Tag Out Procedure"
- Material handling: Physical and ergonomic risk when replacing panels or transporting battery systems.
- Risks associated with use of machinery and equipment used in repair and maintenance work.
- Fire: Risks of short circuit fires, battery explosions, etc.
- Unauthorized access to the facility
- Risk associated with occupational accidents, injuries, and illnesses.

### 1.13. Construction ESMP Matrix

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
• ESS2 - Labor and Working Conditions					
1.	Working Conditions	Employees	<ul style="list-style-type: none"> <li>• Toolbox trainings will be implemented on weekly basis to consist of the OHS Plan and Labor Conditions.</li> <li>• Labor Management Plan will be implemented for recruiting and managing all employees.</li> <li>• Child labor forced labor and unregistered labor will be prohibited as of the Labor Management Plan.</li> <li>• Employees will be provided with documented information that is clear and understandable, regarding their rights under national labor law; including collective agreements, their rights related to hours of work, wages, overtime, compensation, and benefits as of startup of working relationship and when any material changes occur.</li> <li>• The Grievance Mechanism for employees will be implemented. The employees will be informed about the grievance mechanism at the time of recruitment, and it will be made easily accessible to them.</li> </ul>	Contractor Supervision Consultant KASKI	<ul style="list-style-type: none"> <li>• C-ESMP</li> <li>• Workers Grievance Mechanism</li> <li>• Safe work procedures</li> <li>• Sub-contractor agreement templates</li> <li>• Employment templates</li> <li>• Induction Training Plan</li> <li>• Employment records</li> <li>• LMP</li> </ul>
2.	<b>General OHS Risks</b>	Employees	<ul style="list-style-type: none"> <li>• A complete risk assessment document addressing the Sub-project specific risks and defining mitigation measures will be prepared.</li> <li>• All employees including the subcontractors will receive necessary OHS training covering the risks.</li> <li>• Personnel who have not been trained in OHS and are not aware of all risks will not be allowed to enter the work site.</li> <li>• All Sub-project management plans including safe work procedures and emergency action plans will be prepared.</li> <li>• Safety procedures and appropriate Personal Protective Equipment (PPE) will be used when working at height.</li> <li>• OHS Trainings will include the safety procedures.</li> <li>• In case of OHS incidents involving loss of life, loss of limb or eye, or temporary disability from work lasting more than 72 hrs, the Contractor will immediately (within 24 hrs) inform ILBANK PMU and follow up with</li> </ul>	Contractor Supervision Consultant KASKI	Risk Assessment document OHS Management Plan OHS Training Plan Emergency Preparedness and Response Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			completing ESRT forms, as instructed by ILBANK. This will include root cause analysis and corrective action plan.		
3.	<b>OHS - Physical Hazards: Electrical Hazards</b>	Employees	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>• Ensure that all energized electrical devices and lines are marked with warning signs</li> <li>• Ensure that the devices are locked (de-charging and leaving open with a controlled locking device) and labeled (warning sign placed on the lock) during service or maintenance.</li> <li>• Ensure that all electrical cords, cables, and hand power tools are checked for frayed or exposed cords. Also, ensure that the manufacturer's recommendations for the maximum permitted operating voltage of portable hand tools are followed</li> <li>• Ensure that all electrical equipment used in environments that are or may be wet is double insulated/grounded; use equipment with ground fault interrupter (GFI) protected circuits.</li> <li>• Ensure that power cords and extension cords are protected against damage from traffic by shielding or suspending above traffic areas</li> <li>• Ensure that high-voltage equipment and service rooms where access is controlled or prohibited are properly labeled ('electrical hazard')</li> <li>• Ensure that "No Approach" zones are established around or under high voltage lines.</li> <li>• Ensure that construction vehicles or other vehicles with rubber tires that come into direct contact with or arc across high-voltage cables are taken out of service for 48 hours.</li> <li>• Ensure that all buried electrical cables are thoroughly identified and marked prior to any excavation work.</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>• Relevant safety procedures will be established, and employees will be trained on these procedures to prevent the risk of electric shock and injury to employees during the installation of electrical equipment.</li> </ul>	Contractor Supervision Consultant KASKI	Risk Assessment document OHS Management Plan OHS Training Plan Emergency Preparedness and Response Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<ul style="list-style-type: none"> <li>Safety fences will be constructed around electrical areas and no materials will be stored in or near these areas.</li> <li>Contractor and subcontractor electricians will be well trained and those without a certificate of professional competence will not be employed in electrical work.</li> <li>Electricians will be provided with suitably insulated Personal Protective Equipment (PPE) and work tools and will be made aware of the risk of electric shock and protection techniques.</li> <li>First aid workers trained in first aid in case of electric shocks will be employed by the contractor and subcontractor.</li> <li>Work will not be carried out in rainy weather conditions.</li> <li>Warning signs will be placed in areas with electrical hazards and all safety measures (e.g. hard barriers) will be implemented to prevent workers from being exposed to these areas.</li> <li>Toolbox talks will provide information about assembly work and electrical hazards and unqualified personnel will not be assigned to electrical work.</li> </ul>		
4.	<b>OHS - Physical Hazards: Industrial Vehicle Driving and Site Traffic</b>	Local communities Employees	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Ensure that industrial vehicle operators are trained and certified in the safe use of specialized vehicles such as forklifts, including safe loading/unloading, load limits.</li> <li>Make sure drivers undergo medical supervision regularly.</li> <li>Ensure that moving equipment with restricted rear visibility is equipped with audible back-up alarms and employ banksman/flagmen when required.</li> <li>Ensure that rights of way, site speed limits, vehicle inspection requirements, operating rules and procedures, and control of traffic patterns or direction are established.</li> <li>Ensure that deliveries and movement of private vehicles are restricted to defined routes and areas, with 'one-way' movement preferred where appropriate.</li> </ul> <p><u>Site-specific Measures</u></p>	Contractor Supervision Consultant KASKI	Risk Assessment document OHS Management Plan OHS Training Plan Emergency Preparedness and Response Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<ul style="list-style-type: none"> <li>All vehicles used in transportation activities shall comply with the speed limits specified in the Road Traffic Regulation.</li> <li>Vehicle speed will be limited to 30 km/h on unpaved roads.</li> <li>Safe traffic control measures such as road warning signs, speed humps and flag staff will be used where necessary, especially at the transition from the ring road to the side access road.</li> <li>Any damage to the side access road will be repaired and restored.</li> <li>An emergency response plan will be prepared, and necessary protocols will be established for possible infrastructure failures, accidents or natural disasters that may occur during construction.</li> <li>Heavy construction machinery working in the subproject area will not be operated or maneuvered without a flagman or signaler.</li> <li>All drivers will receive road safety training.</li> </ul>		
5.	<b>OHS - Physical Hazards: Ergonomics, Repetitive Motion, Manual Handling Lifting</b>	Employees	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Ensure that mechanical assists are used to eliminate or reduce the effort required to lift materials, hold tools and work objects, and that more than one person is lifting if weights exceed thresholds.</li> <li>Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures.</li> <li>Ensure that user-adjustable workstations are provided.</li> <li>Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place.</li> <li>Ensure quality control and maintenance programs are in place that reduce unnecessary forces and effort.</li> <li>Ensure that additional special circumstances, such as left-handed people, are considered.</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>For manual handling and lifting, workers will be informed of the carrying capacities set out in the regulation and will be provided with the means to transport materials that are not suitable for manual handling.</li> </ul>	Contractor Supervision Consultant KASKI	Risk Assessment document OHS Management Plan OHS Training Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<ul style="list-style-type: none"> <li>Site workers will be provided with information and training on manual handling, including healthy lifting techniques.</li> <li>Implementation of safe transportation techniques will be ensured.</li> <li>Manual handling operations will be kept to a single level, ground conditions will be improved, and environmental conditions will be enhanced. The ground will be kept clear of obstacles.</li> <li>Appropriate Personal Protective Equipment (PPE) and safety equipment will be used.</li> </ul>		
<b>ESS3 - Resource Efficiency and Pollution Prevention and Management</b>					
	<b>Air Emissions and Ambient Air Quality</b>				
6.	Emissions to air due to construction activities	Local communities Employees Flora & Fauna	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Ensure use of dust control methods, such as covers, water suppression, or increased moisture content for open storage piles.</li> <li>Ensure use of water suppression for control of loose materials on paved or unpaved road surfaces.</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>Modern equipment and vehicles in compliance with relevant emission standards will be used during construction works.</li> <li>Exhaust emission measurements of work machines and vehicles will be carried out on time and vehicles exceeding the limit values will not be used in the subproject.</li> <li>Measures will be taken to prevent and/or reduce dust formation during topsoil stripping works and dust suppression methods will be applied with water tankers.</li> <li>In case of dust formation on the side access road providing access to the subproject area, water suppression method will be applied with water tankers.</li> <li>Speed limit will be applied for Transport Trucks.</li> <li>A grievance mechanism will be implemented.</li> </ul>	Contractor Supervision Consultant KASKI	Stakeholder Engagement Plan
	<b>Wastewater and Ambient</b>				

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
	<b>Water Quality</b>				
7.	Generation and discharge of wastewater due to construction activities	Surface water resources	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>• Ensure water is used efficiently to reduce the amount of wastewater generation</li> <li>• Ensure that waste minimization and process modification, including reduction of the use of hazardous substances, is carried out to reduce the load of pollutants requiring treatment.</li> <li>• Septic will be used for wastewater disposal and treatment, ensure that the following requirements are met: <ul style="list-style-type: none"> <li>○ Properly designed and installed in accordance with local regulations and guidance to prevent any hazard to public health or contamination of land, surface or groundwater.</li> <li>○ Well maintained to allow effective operation.</li> <li>○ Installed in areas with sufficient soil percolation for the design wastewater loading rate.</li> <li>○ Installed in areas of stable soils that are nearly level, well drained, and permeable, with enough separation between the drain field and the groundwater table or other receiving waters.</li> </ul> </li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>• Domestic wastewater generated in the subproject area will be collected in sealed septic tank located in the camp site.</li> <li>• KASKI's vacuum trucks will regularly transfer the wastewater to the WWTP.</li> <li>• Kayseri Wastewater Treatment Plant located 12 km from the subproject area will be used to treat all wastewater generated.</li> <li>• No uncontrolled wastewater discharge will be allowed during the subproject lifetime.</li> </ul>	Contractor Supervision Consultant KASKI	Waste management plan
	<b>Waste Management</b>				
8.	Generation of waste during construction activities	Local communities Employees Flora & Fauna	<p><u>General Measures</u></p>	Contractor Supervision Consultant	Waste management plan Stakeholder

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<ul style="list-style-type: none"> <li>Establish waste management priorities at the outset of activities based on an understanding of potential Environmental, Health, and Safety (EHS) risks and impacts and considering waste generation and its consequences.</li> <li>A waste management hierarchy that considers prevention, reduction, reuse, recovery, recycling, removal and finally disposal of waste will be established.</li> <li>Ensure that waste segregation and storage in temporary waste storage areas is managed according to the standards set out in the GIIP and relevant legislation.</li> <li>Ensure that waste is classified and labeled according to waste codes.</li> <li>Ensure that data and information is collected on waste streams generated under the project, including characterization of waste streams by type, quantity and potential use/disposal.</li> <li>Ensure that raw materials or inputs are substituted with less hazardous or toxic materials or with materials for which processing produces lower waste volumes.</li> <li>Ensure that good housekeeping and operational practices, including inventory control, are established to reduce the amount of waste from materials that are outdated, out-of-specification, contaminated, damaged or in excess of facility needs.</li> <li>Ensure that the generation of hazardous waste is minimized by implementing strict waste segregation to avoid mixing of non-hazardous and hazardous waste to be managed.</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>A covered temporary waste storage area will be established within the subproject area, which will not be affected by weather conditions, in order to accumulate wastes under appropriate conditions.</li> <li>Personnel responsible for the temporary waste storage area will be assigned and identification signs will be posted indicating the types of waste to be generated and the responsible personnel.</li> <li>All waste generated during the construction phase will be sorted and labeled according to type and class and stored in the temporary waste storage area.</li> </ul>	KASKI	Engagement Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<ul style="list-style-type: none"> <li>The contractor will have a waste disposal protocol with licensed recycling and disposal company.</li> <li>All waste will be included in the recycling and disposal process through licensed recycling companies within the period specified in the regulations for waste types.</li> <li>Separate sections will be created in the temporary waste storage area for different waste types and measures will be taken to prevent hazardous wastes from reacting.</li> <li>Fire risk and precautions will be taken into consideration in the temporary waste storage area and fire extinguishing equipment will be kept in accessible locations.</li> <li>All waste generated during the subproject will be recycled or disposed of and no waste will be buried, incinerated or disposed of uncontrolled.</li> </ul>		
9.	Generation of hazardous waste during construction activities	Soil Quality Employees Flora & Fauna	<ul style="list-style-type: none"> <li>Ensure that operators are trained on release prevention, including drills specific to hazardous materials as part of emergency preparedness response training.</li> <li>Ensure a description of response activities in the event of a spill, release or other chemical emergency, including: <ul style="list-style-type: none"> <li>Internal and external notification procedures</li> <li>Specific responsibilities of individuals or groups</li> <li>Decision process for assessing severity of the release and determining appropriate actions.</li> <li>Facility evacuation routes</li> <li>Post-event activities such as clean-up and disposal, incident investigation, employee re-entry, and restoration of spill response equipment.</li> </ul> </li> <li>Ensure that appropriate PPE (footwear, masks, protective clothing and goggles in appropriate areas), emergency eyewash and shower stations, ventilation systems and sanitary facilities are provided.</li> <li>Ensure that monitoring and record-keeping activities and accident and incident investigation reports, including audit procedures designed to verify</li> </ul>	Contractor Supervision Consultant KASKI	Waste management plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			and record the effectiveness of the prevention and control of exposure to occupational hazards, are kept on file for at least five years.		
	Noise				
10.	Noise generation due to construction	<ul style="list-style-type: none"> <li>Local community</li> <li>Project Site Surroundings</li> <li>Fauna species</li> </ul>	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Manage the potential impact of noise, selecting equipment with lower sound power levels</li> <li>All Sub-project personnel including direct and contracted workers will be trained on the implementation of ESMP.</li> <li>Ensure implementation of Sub-project-specific SEP in order to address any noise-related grievance and plan/take corrective actions, where necessary.</li> <li>Ensure consultation with PAPs prior to the start of and during the construction activities to be conducted at this location in order to inform stakeholders about the scope and duration of the activities and mitigate the potential impacts for the period of construction</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>Night work will not be allowed during the construction phase of the subproject.</li> <li>Working hours will be between 09:00 in the morning and 18:00 in the evening.</li> <li>Surrounding industrial facilities and residents of Şeker and Yenidoğan neighborhoods will be informed about the timing and content of construction activities under the SEP.</li> <li>The right to education of the Şehit İstihkam Er Suat Özgan primary school and its students, located 500 m from the sub-project area, will be respected and the education at the school will not be interrupted by noise. Before the start of the academic year and during the summer holiday period, the works of driving the steel piles that cause noise will be completed.</li> <li>If noisy works that cannot be completed during the summer holiday period are to be carried out during the academic year, low-noise equipment will be used, and noise measurements will be made around the primary school. If noise measurements are found to be above the limit values, noise curtains will be placed on the part of the sub-project area facing the primary school.</li> </ul>	Contractor Supervision Consultant KASKI	Stakeholder Engagement Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<ul style="list-style-type: none"> <li>The machinery and equipment used during land preparation and construction works will not be operated at the same point but distributed homogeneously over the area.</li> <li>Regular and periodic maintenance of work machines and equipment and daily checks will be carried out in each shift.</li> <li>All vehicles used in transportation activities shall comply with the speed limits specified in the Road Traffic Regulation.</li> <li>A grievance mechanism will be established to receive grievances from local communities.</li> </ul>		
<b>ESS4 - Community Health and Safety</b>					
	<b>Traffic Safety</b>				
11.	Road safety	Local Communities Road Users Road Infrastructure	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Monitoring the licensing and professional competence of the drivers employed in the sub-project.</li> <li>Avoiding dangerous routes and times of day to reduce the risk of accidents.</li> <li>Ensure use of speed control devices (governors) on trucks, and remote monitoring of driver actions</li> <li>Roads passing through settlements will be avoided whenever alternative routes are available. If sub-project traffic routing through the settlements is not avoidable, all necessary traffic management measures will be taken. The local communities and if necessary local authorities will be informed about the transportation routes and schedule.</li> <li>Scheduling of traffic will be undertaken to avoid the peak hours on the local road network wherever practicable (e.g. early in the morning with the daylight). Scheduling information and planned traffic disruptions will be communicated well in advance to all related parties including authorities, local communities and nearby businesses.</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>All vehicles used in transportation activities shall comply with the speed limits specified in the Highway Traffic Regulations.</li> <li>Vehicle speed will be limited to 30 km/h on the site access road.</li> </ul>	Contractor Supervision Consultant KASKI	Traffic Management Plan Stakeholder Engagement Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<ul style="list-style-type: none"> <li>• Safe traffic control measures such as warning signs, speed humps and flagger/marker personnel will be provided along the sub-project access road.</li> <li>• Any damage to the roads will be repaired.</li> <li>• An emergency response plan will be prepared, and necessary protocols will be established for possible infrastructure failures, accidents or natural disasters that may occur during construction.</li> <li>• Operators and drivers will receive road safety training and their driving licenses will be registered.</li> <li>• During the logistics process, there will be no material transportation during peak hours due to the high risk of accidents. Material transportation will be carried out at appropriate times when traffic is low, thereby minimizing the risk of traffic accidents.</li> <li>• Signals and flaggers will be deployed to prevent large and long transportation vehicles from causing accidents and traffic congestion at the entrance to the subproject site.</li> </ul>		
12.	Sexual Exploitation and Abuse (SEA)/Sexual Exploitation/ Sexual Harassment (SE/SH)	Local Communities	<ul style="list-style-type: none"> <li>• Where possible and feasible, local employment options will be considered at all stages of the sub-project.</li> <li>• All sub-project staff will be trained on Code of Conduct at induction to minimize the impact of cultural differences.</li> <li>• Workers will be trained on SEA/SH and CoC and those involved in sexual exploitation will have their employment contracts terminated.</li> <li>• It will be mandatory for project employees to sign the CoC.</li> <li>• Women's complaints of sexual abuse will be handled in a confidential manner and women staff (e.g. Women Social Workers) will be employed within the grievance mechanism to ensure that these complaints are shared.</li> <li>• The content of E&amp;S trainings to be provided to project employees will include Sexual Exploitation and Sexual Harassment</li> </ul>	Contractor Supervision Consultant KASKI	Stakeholder Engagement Plan GM
13.	Impacts on vulnerable and disadvantaged individuals and groups	Local Communities	<ul style="list-style-type: none"> <li>• Although the subproject does not pose significant risks to vulnerable groups, additional stakeholder engagement measures will remain in place. Support will be provided in accordance with the project specific SEP, such as transportation to stakeholder engagement activities.</li> </ul>	Contractor Supervision Consultant KASKI	Stakeholder Engagement Plan GM

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
14.	Grievance Mechanism	Local Communities Employees	<ul style="list-style-type: none"> <li>As indicated in the Roles and Responsibilities table; KASKI will establish a Grievance Mechanism for the project and ensure its effective operation throughout the life cycle of the project with İLBANK.</li> <li>SEP to be updated annually and if there are significant changes in the Project.</li> <li>The implementation of the Stakeholder Engagement Plan (SEP) and Grievance Mechanism will be the responsibility of KASKI PIU.</li> <li>Visibility of the SEP and Grievance Mechanism will be ensured, including contact details of staff responsible for grievance handling.</li> <li>In order to increase the accessibility of the Grievance Mechanism and the visibility of the project, posters and brochures will be prepared and distributed to all residents of Şeker and Yenidoğan neighborhoods and employees of nearby facilities.</li> <li>All records received through the grievance mechanism and other channels will be recorded in a grievance log for the duration of the project.</li> <li>Brochures and posters containing information about the grievance mechanism will be hung in Şeker and Yenidoğan neighborhood mukhtars' offices and information will be provided.</li> </ul>	Contractor Supervision Consultant KASKI	Stakeholder Engagement Plan GM
<b>ESS5 - Land Acquisition, Restrictions on Land Use and Involuntary Resettlement</b>					
15.	Land Acquisition, Restrictions on Land Use and Involuntary Resettlement	Local Communities	<ul style="list-style-type: none"> <li>It will be ensured that construction activities do not restrict/obstruct the social and economic life of the local community.</li> <li>There will be no expropriation under the sub-project.</li> <li>Private and public lands outside the project work area will not be entered and all measures will be taken to prevent this.</li> </ul>	Contractor Supervision Consultant KASKI	Stakeholder Engagement Plan GM
<b>ESS6 - Biodiversity Conservation and Sustainable Management of Living Natural Resources</b>					
16.	Natural habitats	Flora and Fauna Species Birds, Reptiles - Frogs and Mammals	<ul style="list-style-type: none"> <li>No work will be carried out outside the designated Subproject area and natural habitats will not be harmed.</li> <li>Before the subproject construction works start, the area will be inspected and checked for the presence of stray and wild animals within the work area. The</li> </ul>	Contractor Supervision Consultant KASKI	C-ESMP

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<p>efforts to encourage species to leave the area should be carried out gradually at the beginning of the work.</p> <ul style="list-style-type: none"> <li>• If any living creatures are encountered, they will be taken out of the work area and the area will be secured with fencing.</li> <li>• The 83 apricot trees within the sub-project area will not be cut and will be removed with a tree uprooter in the presence of an agricultural engineer from Kayseri Metropolitan Municipality before the construction phase. The uprooted trees will be transported to the Urban Forest Fruiting Area of the Metropolitan Municipality, 1200 meters away.</li> <li>• The sparrow (Passeridae) bird nest on 6 of these apricot trees will not be destroyed and these trees will not be uprooted and moved during the sparrow (Passeridae) bird breeding period.</li> <li>• After the breeding period is completed, it will be ensured that the sparrow (Passeridae) nests are empty, and the trees will be moved after the breeding period.</li> <li>• To mitigate potential negative impacts—such as damage to nests and young individuals caused by topsoil stripping, and the displacement of bird, reptile, amphibian, and mammal species due to dust and noise—irrigation will be applied, and visual inspections will be conducted in the sub-project area prior to the commencement of topsoil removal activities.</li> <li>• Prior to each instance of surface stripping, inspections will be conducted to check for the presence of nests belonging to these species. If nests or young individuals are found, the nests will be carefully relocated to the nearest suitable habitat using appropriate methods, ensuring that the young are not touched during the process.</li> <li>• Watering shall be conducted regularly to prevent dust formation. Noise must remain within the limits established by the Ministry and IFC . Night night-time construction activities should be avoided unless deemed necessary.</li> <li>• Ensure that initial site works are carried out gradually to allow wildlife species to naturally disperse from the area.</li> <li>• During topsoil stripping activities, if any vertebrate species are observed—especially during their breeding season—the area shall be surveyed by a qualified team under the supervision of a vertebrate specialist. Construction</li> </ul>		

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Relevant Plans/Procedures
			<p>activities may only proceed once the individuals have been safely relocated using appropriate methods.</p> <ul style="list-style-type: none"> <li>Conduct ornithological monitoring throughout construction.</li> </ul>		
<b>ESS8 - Cultural Heritage</b>					
17.	Impacts on cultural heritage		<ul style="list-style-type: none"> <li>If archaeological remains are encountered during the construction works, the works will be stopped, and the relevant institutions will be contacted in accordance with the Chance Find Procedure in the ESMP. The Contractor shall immediately (within 24 hours) notify the Employer and ILBANK of such a finding.</li> <li>Project employees, including contractor and subcontractor employees, will be trained on the Chance Find Procedure on the procedures to be followed in case of any findings.</li> <li>The relevant Preservation Board or Museum Directorate will be informed immediately, and the security of the area will be ensured by the Contractor. Construction work will not continue until official notification is received.</li> </ul>	Contractor Supervision Consultant KASKI	Chance Find Procedure
<b>ESS10 - Stakeholder Engagement and Information Disclosure</b>					
18.	Stakeholder Engagement and Information Disclosure	Local community	<ul style="list-style-type: none"> <li>Communities in the vicinity of the work area will be informed prior to commencement of works through consultation meetings, leaflets and information signage.</li> <li>Construction sites and access roads will be separated from other areas with appropriate signboards, signs and fences to limit the staff and vehicle access to the other areas.</li> <li>Information sharing and consultation activities will be carried out with communities and other stakeholders in line with the Stakeholder Engagement Plan (SEP).</li> <li>Local culture and values of the project area will be taken into consideration in all phases of the sub-project and employees will be trained on codes of conduct.</li> </ul>	Contractor Supervision Consultant KASKI	SEP Grievance Mechanism



#### 1.14. Operation ESMP Matrix

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
<b>ESS2 - Labor and Working Conditions</b>					
1.	<b>General OHS Risks</b>	PIU Employees Maintenance Personnel	<ul style="list-style-type: none"> <li>A complete risk assessment document addressing the Sub-project specific risks and defining mitigation measures will be prepared.</li> <li>All employees of the PIU and contractor companies that will work during the operation period will receive the necessary OHS training covering the risks.</li> <li>Personnel who have not been trained in OHS and are not aware of all risks will not be allowed to enter the work site.</li> <li>All Sub-project management plans including safe work procedures and emergency action plans will be prepared.</li> <li>Safety procedures and appropriate Personal Protective Equipment (PPE) will be used when working at height.</li> <li>OHS Trainings will include the emergency procedures.</li> <li>In case of OHS incidents involving loss of life, loss of limb or eye, or temporary disability from work lasting more than 72 hrs, the Contractor will immediately (within 24 hrs) inform ILBANK PMU and follow up with completing ESRT forms, as instructed by ILBANK. This will include root cause analysis and corrective action plan.</li> </ul>	KASKI	Risk Assessment document OHS Management Plan OHS Training Plan Emergency Preparedness and Response Plan
2.	<b>OHS - Physical Hazards: Electrical Hazards</b>	PIU Employees Maintenance Personnel	<u>General Measures</u> <ul style="list-style-type: none"> <li>Ensure that all energized electrical devices and lines are marked with warning signs</li> <li>Ensure that the devices are locked (de-charging and leaving open with a controlled locking device) and labeled (warning sign placed on the lock) during service or maintenance.</li> <li>Ensure that all electrical cords, cables, and hand power tools are checked for frayed or exposed cords. Also, ensure that the manufacturer's recommendations for the maximum permitted operating voltage of portable hand tools are followed</li> </ul>	KASKI	Risk Assessment document OHS Management Plan OHS Training Plan Emergency Preparedness and Response Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
			<ul style="list-style-type: none"> <li>• Ensure that all electrical equipment used in environments that are or may be wet is double insulated/grounded; use equipment with ground fault interrupter (GFI) protected circuits.</li> <li>• Ensure that power cords and extension cords are protected against damage from traffic by shielding or suspending above traffic areas</li> <li>• Ensure that high-voltage equipment and service rooms where access is controlled or prohibited are properly labeled ('electrical hazard').</li> <li>• Ensure that "No Approach" zones are established around or under high voltage lines.</li> <li>• Ensure that construction vehicles or other vehicles with rubber tires that come into direct contact with or arc across high-voltage cables are taken out of service for 48 hours.</li> <li>• Ensure that all buried electrical cables are thoroughly identified and marked prior to any excavation work.</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>• Relevant safety procedures will be established, and employees will be trained on these procedures to prevent the risk of electric shock and injury to employees during the installation of electrical equipment.</li> <li>• Safety fences will be constructed around electrical areas and no materials will be stored in or near these areas.</li> <li>• Contractor and subcontractor electricians will be well trained and those without a certificate of professional competence will not be employed in electrical work.</li> <li>• Electricians will be provided with suitably insulated Personal Protective Equipment (PPE) and work tools, and will be made aware of the risk of electric shock and protection techniques.</li> <li>• First aid workers trained in first aid in case of electric shocks will be employed by the PIU.</li> <li>• Work will not be carried out in rainy weather conditions.</li> </ul>		

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
			<ul style="list-style-type: none"> <li>Warning signs will be placed in areas with electrical hazards and all safety measures (e.g. hard barriers) will be implemented to prevent workers from being exposed to these areas.</li> <li>Toolbox talks will provide information about assembly work and electrical hazards and unqualified personnel will not be assigned to electrical work.</li> </ul>		
3.	<b>OHS - Physical Hazards: Ergonomics, Repetitive Motion, Manual Handling Lifting</b>	Maintenance Personnel	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Ensure that mechanical assists are used to eliminate or reduce the effort required to lift materials, hold tools and work objects, and that more than one person is lifting if weights exceed thresholds</li> <li>Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures</li> <li>Ensure that user-adjustable workstations are provided</li> <li>Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place</li> <li>Ensure quality control and maintenance programs are in place that reduce unnecessary forces and effort</li> <li>Ensure that additional special circumstances, such as left-handed people, are considered</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>For manual handling and lifting, workers will be informed of the carrying capacities set out in the regulation and will be provided with the means to transport materials that are not suitable for manual handling.</li> <li>Site workers will be provided with information and training on manual handling, including healthy lifting techniques.</li> <li>Implementation of safe transportation techniques will be ensured.</li> <li>Manual handling operations will be kept to a single level, ground conditions will be improved and environmental conditions will be enhanced. The ground will be kept clear of obstacles.</li> </ul>	KASKI	Risk Assessment document OHS Management Plan OHS Training Plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
			<ul style="list-style-type: none"> <li>Appropriate Personal Protective Equipment (PPE) and safety equipment will be used.</li> </ul>		
<b>ESS3 - Resource Efficiency and Pollution Prevention and Management</b>					
	<b>Wastewater and Ambient Water Quality</b>				
4.	Wastewater generation and discharge during operation	Surface water resources	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Ensure water is used efficiently to reduce the amount of wastewater generation</li> <li>Ensure that waste minimization and process modification, including reduction of the use of hazardous substances, is carried out to reduce the load of pollutants requiring treatment.</li> <li>Septic system constructed for construction phase will be used for wastewater disposal and treatment, ensure that the following requirements are met: <ul style="list-style-type: none"> <li>Properly designed and installed in accordance with local regulations and guidance to prevent any hazard to public health or contamination of land, surface or groundwater.</li> <li>Well maintained to allow effective operation.</li> <li>Installed in areas with sufficient soil percolation for the design wastewater loading rate.</li> <li>Installed in areas of stable soils that are nearly level, well drained, and permeable, with enough separation between the drain field and the groundwater table or other receiving waters.</li> </ul> </li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>Domestic wastewater generated in the subproject area will be collected in sealed septic tank constructed for construction phase.</li> <li>KASKI's vacuum trucks will regularly transfer the wastewater to the WWTP.</li> </ul> <p>Kayseri Wastewater Treatment Plant located 12 km from the subproject area will be used to treat all wastewater generated.</p>	KASKI	Waste management plan

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
			<ul style="list-style-type: none"> <li>No uncontrolled wastewater discharge will be allowed during the subproject lifetime.</li> </ul>		
	<b>Waste Management</b>				
5.	Waste generation during operation	Local communities Flora & Fauna	<p><u>General Measures</u></p> <ul style="list-style-type: none"> <li>Establish waste management priorities at the outset of activities based on an understanding of potential Environmental, Health, and Safety (EHS) risks and impacts and considering waste generation and its consequences</li> <li>Ensure that a waste management hierarchy is established that considers prevention, reduction, reuse, recovery, recycling, removal and finally disposal of waste</li> <li>Ensure that waste segregation and storage in temporary waste storage areas is managed according to the standards set out in the GIIP and relevant legislation</li> <li>Ensure that waste is classified and labeled according to waste codes.</li> <li>Ensure that data and information is collected on waste streams generated under the project, including characterization of waste streams by type, quantity and potential use/disposal.</li> <li>Ensure that raw materials or inputs are substituted with less hazardous or toxic materials or with materials for which processing produces lower waste volumes.</li> <li>Ensure that good housekeeping and operational practices, including inventory control, are established to reduce the amount of waste from materials that are outdated, out-of-specification, contaminated, damaged or in excess of facility needs</li> <li>Ensure that the generation of hazardous waste is minimized by implementing strict waste segregation to avoid mixing of non-hazardous and hazardous waste to be managed</li> </ul> <p><u>Site-specific Measures</u></p> <ul style="list-style-type: none"> <li>A covered temporary waste storage area that will not be affected by weather conditions will be established outside the sub-project area (in an area to be determined by KASKI) in an area owned by</li> </ul>	KASKI	

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
			<p>KASKI for the accumulation of wastes under appropriate conditions.</p> <ul style="list-style-type: none"> <li>• Personnel responsible for the temporary waste storage area will be assigned and identification signs will be posted indicating the types of waste to be generated and the responsible personnel.</li> <li>• All waste generated during the operation phase will be sorted and labeled according to type and class and stored in the temporary waste storage area.</li> <li>• KASKI will have waste protocols with licensed recycling and disposal companies.</li> <li>• All waste will be included in the recycling and disposal process through licensed recycling companies within the period specified in the regulations for waste types.</li> <li>• Separate sections will be created in the temporary waste storage area for different waste types and measures will be taken to prevent hazardous wastes from reacting.</li> <li>• Fire risk and precautions will be taken into consideration in the temporary waste storage area and fire extinguishing equipment will be kept in accessible locations.</li> <li>• All waste generated during the subproject will be recycled or disposed of and no waste will be buried, incinerated or disposed of uncontrolled.</li> </ul>		
<b>ESS4 - Community Health and Safety</b>					
<b>6.</b>	Sexual Exploitation and Abuse (SEA)/Sexual Exploitation/ Sexual Harassment (SE/SH)	Local Communities	<ul style="list-style-type: none"> <li>• All project staff will be trained on Code of Conduct at induction to minimize the impact of cultural differences.</li> <li>• Project staff will be trained on SEA/SH and CoC and those involved in sexual exploitation will have their employment contracts terminated.</li> <li>• It will be mandatory for project employees to sign the CoC.</li> <li>• Women's complaints of sexual abuse will be handled confidentially.</li> </ul>	KASKI	Stakeholder Engagement Plan GM

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
			<ul style="list-style-type: none"> <li>The content of E&amp;S trainings to be provided to project employees will include Sexual Exploitation and Sexual Harassment</li> </ul>		
7.	Risks of unauthorized access of community members, especially children, to the subproject site	Local Communities	<ul style="list-style-type: none"> <li>The subproject site will be fenced to prevent unauthorized access and ensure security.</li> <li>The subproject site will be monitored 24 hours a day with security cameras and in case of security problems, the personnel in charge will intervene in case of violations.</li> <li>Children will be prevented from crossing the fence and entering the subproject area by security cameras. Unauthorized entries will be intervened immediately.</li> <li>Physical security checks will be carried out at regular intervals to prevent damage to the fence and security problems.</li> <li>Consultation meetings will be held in the nearest settlement, Şeker and Yenidoğan neighborhoods, and local communities will be informed that children in particular should not enter the subproject area and that there is an electricity hazard.</li> </ul>	KASKI	Stakeholder Engagement Plan
8.	Grievance Mechanism	Local Communities PIU Employees	<ul style="list-style-type: none"> <li>As indicated in the Roles and Responsibilities table; KASKI will establish a Grievance Mechanism for the project and ensure its effective operation throughout the life cycle of the project with ILBANK.</li> <li>SEP to be updated annually and if there are significant changes in the Project.</li> <li>The implementation of the Stakeholder Engagement Plan (SEP) and Grievance Mechanism will be the responsibility of KASKI PIU.</li> <li>Visibility of the SEP and Grievance Mechanism will be ensured, including contact details of staff responsible for grievance handling.</li> <li>In order to increase the accessibility of the Grievance Mechanism and the visibility of the project, posters and brochures will be prepared and distributed to all residents of Şeker and Yenidoğan neighborhoods and employees of nearby facilities.</li> </ul>	KASKI	Stakeholder Engagement Plan GM

No	Impact Description	Receptor	Proposed Mitigation Measure	Responsible Parties	Implementation Plans
			<ul style="list-style-type: none"> <li>All records received through the grievance mechanism and other channels will be recorded in a grievance log for the duration of the project.</li> </ul>		
<b>ESS6 - Biodiversity Conservation and Sustainable Management of Living Natural Resources</b>					
<b>9.</b>	Natural habitats	Flora and Fauna Species Birds, Reptiles - Frogs and Mammals	<ul style="list-style-type: none"> <li>Conduct ornithological monitoring throughout at least two years (four seasons) during operation.</li> </ul>	KASKI	-
<b>ESS10 - Stakeholder Engagement and Information Disclosure</b>					
<b>10.</b>	Stakeholder Engagement and Disclosure	Local community	<ul style="list-style-type: none"> <li>Interaction / communication will be established with communities, and adequate timing will be planned for engagement activities. Additionally, regular consultations will be carried out with the authorities and communities regarding the project management.</li> </ul>	KASKI	Stakeholder Engagement Plan SEP

### 1.15. Monitoring and Reporting

The Sub-borrower will conduct internal monitoring of Sub-project's E&S performance and submit Periodic Monitoring Reports to ILBANK in line with the sub-financing agreement requirements. The information to be provided as part of reporting for the respective monitoring period will include the following:

- Up-to-date information on sub-project construction progress, work plan and adequate technical staff,
- The status of compliance with legal requirements, permits required and the outcome of inspections by national authorities and the status of fines imposed by national authorities,
- Details of how the requirements of the IFI standards (e.g. WB ESSs) are being met on the basis of compliance with Sub-project level Environmental and Social Action Plans (ESAPs),
- Incident and accident reports and statistics,
- Current Sub-project level E&S organization and capacity (including information on capacity building and training),
- Progress with Sub-project level stakeholder engagement activities and management of grievances, and
- Records on E&S non-conformities identified and general status of Corrective Action Plan implementation at Sub-project level (in case of non-conformities).

Key performance indicators (KPIs) of this procedure will be monitored, verified, and evaluated within the scope of the Sub-project monitoring stage. The KPIs for both construction and operation phases of the Sub-project are presented in Table 16.

Table 16 Key Performance Indicators for Both Construction and Operation Phases of the Sub-project

Monitoring Focus	KPI
<b>Documentation</b>	
Following ESMP Project specific plans will be developed and be in place.	Full compliance with Sub-project's ESMP
<b>Air Quality</b>	
Non-Compliance with air quality standards	Zero grievances per year
Community grievances	Minimization and continued improvement in the number of air quality related community grievances
Violation on speed limit	Minimization and continued improvement in the number of reported violations on speed limit
<b>Noise</b>	
Noise and Vibration incidents	Minimize and continued improvement in number of reported noise and vibration related incidents
Non-Compliance with Project standards	Zero Non-Compliance Reports (NCRs) per year
Number of noise-related community grievances	Zero grievances per year
Community grievances	Minimization and continued improvement in the number of noise related community grievances
<b>Water / Wastewater</b>	
Spill incident	Minimization and continued improvement in the number of the reported water quality related incidents.

Monitoring Focus	KPI
Non-Compliance with Sub-project standards	Zero NCRs per year
Wastewater collection system	Zero grievances per year
<b>Waste</b>	
Waste Generation	Minimization of total waste generated Decrease in the ratio of hazardous waste generated to total waste (by contamination + by generation)
Waste Disposal	Increase in the ratio of recovered/reused/recycled waste to total waste generated
<b>Soil Quality</b>	
Spill incident	Minimization and continued improvement in the number of the reported soil quality related incidents
Non-Compliance with Sub-project standards	Zero NCRs per year
Soil quality accidents	Zero accident per year
Number of soil-related community grievances	Zero grievances per year
<b>Traffic</b>	
Number of non-compliances against the mitigation controls identified in Traffic and Transport Management Plan	Decreasing number/ continuous improvement in number of reported non-compliances
Number of drivers found to be exceeding speed limits or driving unsafely	Zero exceedance per year
Number of road traffic accidents involving: Accidental injuries and deaths, Spillages (such as cargo or fuel), Wildlife-vehicle collisions.	Zero accidents per year
Number of traffic-related grievances	Zero grievances per year
<b>Health, Safety and Environment</b>	
% of scheduled HSE Inspection	>90
% of attendance at HSE meetings	>90
% of closing of NCRs	100
Reporting safe observations	100%
Reporting unsafe observations	100%
Reporting near misses	100%
Reporting number of incidents	100%
Reporting number of accidents	100%
Reporting day-loss	100%
% of Toolbox attending	>90
% of Risk Assessment compliance	>90
% of Legal Requirements compliance	100%
Results of scheduled audits	>85
HSE training carried out to training matrix > 90% of all training to matrix	>90
% of attendance at scheduled trainings	>90
Engagement in HSE program by individual managers and supervisors	>90
Engagement in HSE program by contractor's	>90
<b>Labor and Working Conditions</b>	
Number of worker grievances closed out within the target timeframe	100% compliance with labor laws and regulations

Monitoring Focus	KPI
	Zero unresolved health and safety incidents within the target timeframe 100% availability of required PPE 90% or higher worker satisfaction rate
<b>Community Health and Safety</b>	
Number of communicable and non-communicable diseases and injuries.	Negative Trend/No significant increase in communicable and non-communicable disease and injury rates per 1,000 residents per annum.
Number of community health safety & security grievances from local communities as recorded in the grievance management system.	Decreasing number/ continuous improvement in number of grievances
Number of reported community health & safety incidents	Zero incidents per year
Number of reported air quality or noise incidents	Zero incidents per year
Direct and indirect threats posed by construction activities against traffic and pedestrians	Zero number of drivers found to be exceeding speed limits or driving unsafely Zero accidental injuries and deaths, Zero traffic-related grievances
Access to the Construction Site - Security Fence/ Protection Tape	Zero Number of unauthorized accesses to the Sub-project area
<b>Trainings</b>	
Training records	Trainings on ESMP and SEP documents. Providing all trainings (including GM, GBV, SEA/SH) to all employees. 100% of scheduled training sessions conducted 80% or higher participant satisfaction rate Zero participants without completion certificates if applicable
<b>Disclosure</b>	
Grievance Records, Disclosure meeting participant records, ESMP, SEP, GM will be disclosed at Project web site in two languages. (English and Turkish).	All grievances closed-out within the target timeframe ESMP, Project specific SEP and GM will be prepared and disclosed at the Project web site
<b>Grievance mechanism</b>	
Grievance Records, GM disclosure	All grievances closed-out within the target timeframe GM disclosure to the PAPs, stakeholders GM disclosure at Sub-project web site
<b>Cultural Heritage</b>	
Existence of a Chance Find	Zero Grievance Records

Table 17. Construction Environmental and Social Monitoring Table

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Monitoring/Key Performance Indicators (KPIs)	Cost (If not included in the Sub-project Budget)
<b>C 1</b>	Working Conditions General OHS Risks Lifting Risks Electric Shock Risks Fire Risks Manual Handling Risks	Use of PPE OHS Trainings Number of OHS non-compliances	Subproject Area	OHS Checklist OHS Training Records Fire Extinguishing System Records Daily field visual observations Accident records Near-miss records Grievance records Monthly report	Daily visual observations Monthly report	National OHS Legislation WB ESS 2	KASKI Supervision Consultant Contractor	% of Planned OHS Audits % of participation in OHS meetings Rate of closure of Non-Compliance Reports (NCR) % Reporting of safe and unsafe observations % of toolbox participation  Results of audits OHS trainings conducted according to the training matrix Number of closed corrective actions	Included in the Subproject Cost
<b>C 2</b>	Waste management Waste Storage Area Waste management practices	Adequate waste storage conditions Spills	Temporary Waste Storage Area	Visual observations Waste records Record of Spills	Daily visual observations Monthly document record control Monthly report	Waste Management Regulation WB ESS 3 GIIP	KASKI Supervision Consultant Contractor	Amount of waste stored Amount of waste disposed	Included in the Subproject Cost

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Monitoring/Key Performance Indicators (KPIs)	Cost (If not included in the Sub-project Budget)
C 3	Dust from construction activities and vehicle traffic	Grievances related to dust and emissions	Sub Project Site Subproject surroundings	Grievance records Visual observations	Daily visual observations Monthly report	WB ESS 3 National Legislation GIIP	KASKI Supervision Consultant Contractor	Number of grievances received Number of grievances closed Number of open grievances	Included in the Subproject Cost
C 4	Wastewater Pollution	Wastewater	Septic Tanks	Wastewater receipts (sewerage septic tank receipt)	Monthly report	Regulation on Urban Waste Water Treatment WB ESS 3	KASKI Supervision Consultant Contractor	Amount of treated wastewater	Included in the Subproject Cost
C 5	Noise Pollution	Grievances related to disturbances caused by noise	Sub Project Site Subproject surroundings	Grievance records Noise measurement results in case of grievances	Monthly report	Environmental Noise Control Regulation GIIP WB ESS 3	KASKI Supervision Consultant Contractor	Number of grievances received	Included in the Subproject Cost
C 6	Traffic risks	Damage to roads Emergency records Traffic accident records	Sub Project Site Subproject surroundings	Grievance records	Daily visual observations Monthly report	Traffic management plan Emergency Response Plan WB ESS 4	KASKI Supervision Consultant Contractor	Number of grievances received	Included in the Subproject Cost
C 7	Sexual Exploitation and Abuse (SEA)/ /Sexual Exploitation/ Sexual Harassment (SE/SH)	Employee code of conduct Grievance mechanism	Sub Project Site Subproject surroundings	Review of grievance records Code of Conduct Training Plan to include SEA and SE/SH topics	Daily report	WB ESS 2 WB ESS 4 Sub management Plan	KASKI Supervision Consultant Contractor	Number of grievances received Grievance Mechanism	Included in the Subproject Cost

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Monitoring/Key Performance Indicators (KPIs)	Cost (If not included in the Sub-project Budget)
				Visual observations Meetings with Muhtars in the Area of Impact					
<b>C 8</b>	Cultural Heritage	Chance Finds	Sub Project Site	Chance Find Procedure	Daily visual observations Monthly report	WB ESS 8 Sub management Plan	KASKI Supervision Consultant Contractor	Number of Chance Finds	Included in the Subproject Cost

Table 18. Operation Environmental and Social Monitoring Table

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Monitoring/Key Performance Indicators (KPIs)	Cost (If not included in the Sub-project Budget)
<b>O 1</b>	Working Conditions General OHS Risks Lifting Risks Electric Shock Risks Fire Risks Manual Handling Risks	Use of PPE OHS Trainings OHS Non Compliances	Subproject Area	OHS Checklist OHS Training Records Fire Extinguishing System Records Daily field visual observations Accident records Near-miss records Grievance records	Daily site visual observations Monthly report	National OHS Legislation WB ESS 2	KASKI	% of Planned OHS Audits % of participation in OHS meetings Reporting of safe and unsafe observations % of toolbox participation Number of closed corrective actions	Included in the Operating Cost

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Monitoring/Key Performance Indicators (KPIs)	Cost (If not included in the Sub-project Budget)
				Monthly report				Results of audits OHS trainings	
<b>O 2</b>	Waste management Waste Storage Area Waste management practices	Adequate waste storage conditions	Temporary Waste Storage Area	Visual observations Waste records	Daily visual observations Monthly report	Waste Management Regulation WB ESS 3 GIIP	KASKI	Amount of waste stored Amount of waste disposed	Included in the Operating Cost
<b>O 3</b>	Sexual Exploitation and Abuse (SEA)/ /Sexual Exploitation/ Sexual Harassment (SE/SH)	Employee code of conduct Grievance mechanism	Sub Project Site Subproject surroundings	Review of grievance records Code of Conduct Training Visual observations	Daily report	WB ESS 2 WB ESS 4 Sub management Plan	KASKI	Number of grievances received Grievance Mechanism	Included in the Operating Cost

### 1.16. List of Associated Plans and Procedures

The E&S management plans and procedures to be prepared by Contractor/s are listed in Table 19.

Table 19. Plans and Procedures Associated

Management Plan or Procedure	Relevant Sub-project Phase (Construction only, Operation only, both Construction and Defect Liability Period (DLP))
Waste Management Plan	Construction
Traffic and Safety Management Plan	Construction/Operation
Community Health, Safety and Security Plan	Construction/Operation
Workforce Management Plan	Construction
Occupational Health and Safety Management Plan	Construction/Operation
Emergency Response and Action Plan	Construction/Operation
Stakeholder Engagement Management Plan and Grievance Mechanism	Construction/Operation
Chance Find Procedure	Construction

The plans/procedures will be reviewed and revised in any major change and/or at least every 6 months.

### 1.17. Management of Change

Sub-borrower shall notify ILBANK of material changes in Sub-project (including those that stem from Sub-borrower and/or contractor activities) using ILBANK's Change Notification Form template (Annex I). Such changes may include, inter alia, the following:

- Administrative/ organizational structure changes at the decision-making level
- Changes in assigned environmental, social and/or OHS staff
- Legislative changes impacting Sub-project implementation (e.g. new permitting processes).
- Design changes (e.g. any changes in the Sub-project description, footprint such as new temporary or permanent sites/facilities – on-site or off-site, changes in number of workforce involved, changes in on-site/off-site worker accommodation arrangements).
- Schedule changes.
- Changes related to E&S issues (e.g. new biodiversity features or cultural heritage assets identified, additional resettlement need, etc.)

Contractor or construction supervision consultants' changes at any phase of the Sub-project requiring (i) E&S commitments and E&S roles and responsibilities to be clarified with the new contractor or supervision consulting firm, and (ii) contractor E&S training to be reorganized and redelivered to new contractor or supervision consulting firm's staff.

## CAPACITY DEVELOPMENT AND TRAINING

### 1.18. Organizational Capacity

The organization structure of the PIU to be established by the Sub-borrower is presented in Figure 17. The PIU will have qualified staff and resources to the satisfaction of ILBANK.

Figure 17. Organization Structure – Project Implementation Unit (PIU)

Project Implementation Unit Personnel List	
<b>Contract Management</b>	
Deputy General Manager	
<b>Procurement Unit</b>	
Branch Manager	
Construction Technician	
<b>Technical Management</b>	
Department Head	
<b>Technical Unit</b>	
Branch Manager - Civil Engineer	
Civil Engineer	
Civil Engineer	
Electrical Technician	
Electrical - Electronics Engineer	
Mechanical Engineer	
Mapping Technician	
<b>Financial Management</b>	
Branch Manager	
<b>Financial Unit</b>	
Officer	
<b>Monitoring and Evaluation</b>	
Civil Engineer	
<b>OHS</b>	
Occupational Health and Safety and Civil Defense Branch Manager	
<b>Social Specialist</b>	
Social Specialist/Sociologist	
<b>Environmental Specialist</b>	
Environmental Engineer	

The Sub-borrower will maintain the PIU by ensuring that there is qualified staff assigned and serving on the duty throughout the sub-financing agreement life cycle.

At minimum, the E&S team at the Sub-borrower PIU will include the following personnel who shall support management and monitoring of Sub-project E&S risks and impacts and ensure full compliance with the ESMP and other relevant E&S instruments:

- **Environmental Specialist(s):** to address environmental risks and impacts identified under the Environmental and Social Assessment (ESA) reports, such as Environmental and Social Impact Assessment (ESIA), Environmental and Social Management Plan (ESMP), etc.

- **Social Expert/ Grievance Mechanism (GM) Focal Point:** to address social risks and impacts under the ESA reports, land acquisition, and labor issues, including stakeholder engagement and grievance redress; and
- **Occupational Health and Safety (OHS) Specialist(s):** to address OHS risks and impacts within the scope of ESIA and ESMP management plans and national regulations.

If the necessary staff is not available within its own organizational structure, the Sub-borrower shall receive support/ consultancy services from outside.

### *Contractors*

The Sub-borrower will require awarded contractors to establish and maintain throughout the contract duration an organizational structure with qualified staff and resources.

This will be achieved through assigning the following personnel under the contractor's organization:

- Environmental Specialist(s)
- Social Specialist(s) who will also act as the GM Focal Point
- Occupational Health and Safety (OHS) Specialist(s)

If the necessary staff is not available within its own organizational structure, contractors shall receive third-party support/ consultancy services.

## 1.19. Roles and Responsibilities

The roles and E&S related responsibilities of the Sub-borrower and other key parties are described in Table 20.

Table 20. Roles and E&S related Responsibilities of Key Parties associated with ESMP Implementation

Party	Role	Key Responsibilities
<b>Financial Intermediary</b>		
ILBANK	FI	<ul style="list-style-type: none"> <li>To fulfill the Sub-project implementation support role to ensure that is carried out in line with ILBANK ESMS and WB ESF,</li> <li>Visit Sub-project site/s on occasion, and as required, as part of Sub-project supervision, monitoring and auditing.</li> <li>Reviewing, approving, and disclosing ESMP on ILBANK's official website.</li> <li>Reviewing the Environmental and Social Monitoring Reports (ESMRs) which will be prepared by the Sub-borrower.</li> </ul>
<b>Sub-borrower</b>		
Kayseri Water and Sewerage Directorate (KASKI)	Sub-borrower Management	<ul style="list-style-type: none"> <li>Hold ultimate responsibility for the E&amp;S performance of the Sub-project to the satisfaction of the ILBANK, including the performance of Sub-project contractors throughout the sub-financing agreement life cycle.</li> <li>Establish Project Implementation Unit (PIU) following the execution of sub-financing agreements to carry out operational and administrative tasks to oversee the implementation of the E&amp;S instruments and monitoring progress; allocate resources for the recruitment of in-house environmental, social and OHS staff under the PIU</li> <li>Ensure that ESMP, SEP and other E&amp;S management plans and procedures required by ILBANK is prepared within the timeframes agreed with ILBANK and allocate adequate financial and human resources – either from the Sub-borrower's own resources or from the Sub-project loan and implement.</li> <li>Cooperate with the ILBANK representatives to discuss and agree on the ESAP and other E&amp;S covenants for incorporation into sub-financing agreements to be executed between the ILBANK and the Sub-borrower (with support from RD E&amp;S team as necessary)</li> <li>Ensure that EHSS requirements of ILBANK are incorporated into relevant contractor tender and agreement documents to be prepared in collaboration with the construction supervision consultant</li> <li>Hold and use the authority and responsibility to stop any Sub-project related work activity if it poses an imminent danger to health, safety, or the environment.</li> <li>Allocate resource to ensure monitoring of Sub-project E&amp;S performance and reporting to ILBANK at IFI standards in line with the sub-financing agreement conditions</li> <li>Facilitate monitoring visits and audits by ILBANK and their consultants</li> <li>Notify the ILBANK RD – E&amp;S Teams of any significant E&amp;S incident or accident within maximum <b>24 hours</b> of the accident/incident; contractually require the supervision consultants and/or contractors to promptly report such incident and accidents (timeframe to be defined by ILBANK) (Annex F)</li> <li>Prepare and submit a detailed E&amp;S Incident Investigation Form, supplemented by an RCA to be conducted pursuant to GIIPs, to ILBANK within <b>15 days</b> of the accident/incident date for significant accidents or incidents (in line with the template presented in the E&amp;S Supervision, Monitoring and Reporting Procedure). The investigation will be supplemented by a Root Cause Analysis (RCA) (Annex G).</li> </ul>
	E&S Team - Environmental staff - Social staff - OHS staff	<ul style="list-style-type: none"> <li>Participate in the training to be organized by ILBANK as part of ILBANK ESMS Training Procedure implementation.</li> <li>Ensure that satisfactory ESMP, SEP and as required other E&amp;S assessment documentation required by ILBANK is prepared by qualified independent specialists and submitted to ILBANK for appraisal and credit decision-making for Moderate risk Sub-project where the Sub-borrower has limited E&amp;S capabilities, coordinate commissioning independent third-party specialists (such as external E&amp;S consultancy companies, individual consultants) to carry out the E&amp;S</li> </ul>

Party	Role	Key Responsibilities
		<p>assessment and prepare the E&amp;S documentation required for ILBANK's appraisal and credit decision-making processes</p> <ul style="list-style-type: none"> <li>• Provide ILBANK with relevant adequate information to undertake the E&amp;S due diligence in accordance with the ESMS (e.g. duly completed Sub-borrower questionnaire and supporting documentation to be requested by ILBANK in accordance with the E&amp;S Screening and Risk Classification and ESDD procedures)</li> <li>• Support the Sub-borrower management as required in the review and evaluation of ESAP and other E&amp;S covenants for incorporation into sub-financing agreements to be executed between the ILBANK and the Sub-borrower</li> <li>• Ensure compliance of Sub-project operations (including contractor activities on site) with national legislation and E&amp;S requirements of the lending IFIs as included in the sub-financing agreements, ESAP and Sub-project-specific E&amp;S documentation (such as ESMP, SEP and other E&amp;S management plans and procedures required by ILBANK)</li> <li>• Undertake monitoring of Sub-project E&amp;S performance and reporting to ILBANK at IFI standards in line with the sub-financing agreement conditions</li> <li>• Ensure implementation of corrective actions in case of E&amp;S non-compliances in coordination and agreement with ILBANK DG and RD E&amp;S teams over reasonable timeframes</li> <li>• Coordinate the construction supervision consultants, contractors and/or external E&amp;S consultants for collection of the monitoring data and compilation of or providing input to periodic monitoring reports as necessary and appropriate</li> <li>• Allow ILBANK representatives (including individual consultants) to access Sub-project facilities and records.</li> </ul>
Construction Supervision Consultants	Management and E&S staff	<p>Carry out the following tasks on behalf of the Sub-borrowers:</p> <ul style="list-style-type: none"> <li>• Participate in the training sessions to be organized by Sub-borrowers in line with the requirements of ILBANK ESMS Training Procedure</li> <li>• Supervise the construction works of contractors on-site, including implementation of Sub-project-specific E&amp;S requirements (requirements stemming from ESMP, SEP and other E&amp;S management plans and procedures required by ILBANK as applicable) by contractors on a daily basis</li> <li>• Ensure sufficient E&amp;S capacity for implementation of E&amp;S requirements as set out in the sub-financing agreements between the Sub-borrower and ILBANK</li> <li>• Support the Sub-borrowers for the supervision and review of E&amp;S management documentation prepared by construction contractors and submit them to Sub-borrowers upon finalization</li> <li>• Review monthly self-monitoring reports prepared by the construction contractors for early identification of E&amp;S issues and/or non-compliances and submit them to municipalities/municipal utilities upon finalization</li> <li>• Identify E&amp;S non-compliances on site and enforce construction contractors to undertake corrective actions within defined and agreed timeframes</li> <li>• Support the Sub-borrowers (as requested) in the preparation of periodic E&amp;S monitoring reports to be submitted to ILBANK in line with the ILBANK E&amp;S Supervision, Monitoring and Reporting Procedure</li> <li>• Notify the Sub-borrower of any significant E&amp;S incident or accident that have taken place in Sub-project related operations within 24 hours.</li> </ul>
Construction Contractor	Management and E&S staff	<ul style="list-style-type: none"> <li>• Ensure sufficient E&amp;S capacity for implementation of E&amp;S requirements as set out in the construction contracts</li> <li>• Participate in the training sessions to be organized by Sub-borrowers in line with the requirements of ILBANK ESMS Training Procedure</li> <li>• Prepare Sub-project-specific E&amp;S management plans and procedures prior to start of construction works as required by the construction contracts</li> <li>• Comply with the requirements of national legislation and implement the E&amp;S requirements as set out in the sub-financing agreements (executed between ILBANK and the Sub-borrowers) and construction contracts</li> <li>• Submit periodic (in frequencies to be set by ESAP) E&amp;S self-monitoring reports to the municipalities/municipal utilities through construction supervision consultants ("müşavir") – in line with the format provided by ILBANK.</li> </ul>

Party	Role	Key Responsibilities
		<ul style="list-style-type: none"> <li>• Fill in monthly occupational health and safety (OHS) forms – reviewed by construction supervision consultants.</li> <li>• Implement corrective actions in case of E&amp;S non-compliances under the supervision of Sub-borrower's construction supervision consultant</li> <li>• Promptly notify the Sub-borrower of any significant E&amp;S incident or accident that have taken place in Sub-project related operations (ILBANK no later than 24 hours)</li> </ul>

## 1.20. Capacity Building and Training

Sub-borrower staff (trained by ILBANK) will deliver E&S training to contractors. Training contents are summarized in Table 21. Sub-borrower will identify specific training to be conducted in line with these modules and submit this to ILBANK prior to commencement of works.

Sub-borrower will ensure that E&S training programs are expanded to subcontractors by contractors in case their involvement in Sub-project implementation.

Table 21. Training Components for Training of Contractor Staff

Module	Training Name	Training Duration	Key Training Content
Module 1	ILBANK E&S Requirements	1 hour	<ul style="list-style-type: none"> <li>- Overview of ILBANK E&amp;S requirements: <ul style="list-style-type: none"> <li>o ILBANK E&amp;S Policy (including but not limited to the guiding principles on human rights, labor rights and working conditions, community health, safety and well-being, cultural heritage, gender equality, etc.)</li> <li>o External Communications (including stakeholder engagement, grievance management, etc.)</li> <li>o Monitoring, Review and Reporting</li> <li>o Labor Management, Contractor Management</li> </ul> </li> <li>- ILBANK Code of Conduct</li> </ul>
Module 2	Sub-project-level E&S Requirements for contractors as per sub-financing agreement conditions	3 hours	<ul style="list-style-type: none"> <li>- Sub-project specific requirements: <ul style="list-style-type: none"> <li>o E&amp;S covenants included in sub-loan agreements</li> <li>o Sub-project ESAP requirements</li> <li>o Sub-project-level E&amp;S assessment and management documentation (such as ESMP, SEP and other E&amp;S management plans and procedures as applicable);</li> <li>o E&amp;S sub-management plans training</li> <li>o Emergency Preparedness and Response Plan including a training program for emergency responders including drills at regular intervals;</li> <li>o Specific training (e.g. special trainings-certificates for workers in electrical work and training on appropriate behavior towards workers and affected communities).</li> </ul> </li> <li>- Preparation and implementation of Labor Management Plans.</li> </ul>

Training will be provided immediately following the recruitment process and will be refreshed every six months throughout the employment period and will be conducted at various levels. Training will cover employee rights, contractual requirements, Emergencies, Code of Conduct, grievance mechanism and communication channels. Awareness and compliance with rules on gender-based violence, sexual harassment, sexual exploitation, and abuse to be provided in trainings will be included in employee contracts. Trainings can be conducted by external experts or with internal expertise of the PIU and consultants as well as support from ILBANK and WB. Long-term trainings will address specific environmental and social issues and provide possible solutions to the PIU.

The PIU is also responsible for monitoring the Contractor's training related activities. Trainings will be provided after the signing of the work contracts and refresher trainings will be conducted as necessary according to the progress of the work and construction activities. At the end of the training, assessment and evaluation should be carried out to measure the effectiveness of the training and the level of knowledge and competence of the participants. According to the evaluation results, the training program may be changed, the trainers may be changed, or the training may be repeated.

Planned Key Trainings include (but are not limited to):

- o ESMP
- o Waste Management,

- Energy Efficiency,
- Safe Driving,
- Occupational Health and Safety,
- Chance Find Procedure,
- Orientation on Code of Conduct, GBV and CSI/CT, Grievance Mechanism, Environment, Health and Safety and WB Requirements, and
- First Aid and Emergency Preparedness Trainings

# IMPLEMENTATION SCHEDULE AND COST ESTIMATES

## 1.21. Implementation Schedule

Duration of the construction and operation phase activities are listed in Table 22.

Table 22. Duration of Activities

Phase	Remarks/ Notes
Construction Duration (from site mobilization until provisional acceptance)	8 months
Defect Liability Period	12 months
Operation Duration	25 years

## 1.22. Cost Estimates

All costs related to the implementation of the ESMP are included in the subproject budget.

Estimated sources for budget allocation are listed in Table 23.

Table 23. Estimated Budget Requirement for ESMP Implementation

Cost items	Party	Estimated cost (EURO)
PIU E&S Staff	KASKI	50.000
Training of Construction Workforce	Included in the subproject budget	25.000
Health and Safety training and equipment	Included in the subproject budget	35.000
Complaint Based Measurements and Surveys	Included in the subproject budget	15.000
Accidental Spill and Leakage Management	Included in the subproject budget	10.000
Regular Maintenance of E&S Systems and Implementation of ESMP/ E&S Tools	Included in the subproject budget	20.000
Operation phase staff & OHS System	KASKI	50.000
Total		205.000

## List of Annexes

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## Annex A – List of the Individuals/Organizations that Prepared or Contributed to the ESMP

Name of the Individual/ Organization	Company/ Institution	Profession/ Expertise
Kemal Kurt – General Manager	Kolay Enerji	Electrical and Electronic Engineer
Gürkan Kılıç – Preject Lead	Kolay Enerji	Mathematician, (Quality Engineer)
Tuncay Albayrak	Kolay Enerji	Environmental Engineer
Hasan Özdemir	Kolay Enerji	Electrical and Electronic Engineer
Ali Aydemir	Kolay Enerji	SPP Technical Analysis (Energy Systems Engineer)
Gizem Çetin	Kolay Enerji	SPP Material Analysis (Energy Systems Engineer)
Merve Karakuş	Kolay Enerji	Social and Regional Analysis (Geographer)
Aşkın	Kolay Enerji	Economic Analysis (Econometrician)
Öykü Kılıç	Kolay Enerji	Economic Analysis (Business Specialist)

## **Annex B – Existing Permitting Documentation**

- B-1 EIA Decisions
- B-2 Permission for Non-Agricultural Use
- B-3 Kayseri Metropolitan Municipal Decision
- B-4 Kocasinan Municipal Opinion and Application Sketch
- B-5 DSI Decision
- B-6 ILBANK Decision
- B-7 Opinion Letters or Official Correspondence with Authorities (e.g. Cultural Heritage Authorities etc.)
- B-8 Ministry of Agriculture and Forestry 7th Regional Directorate Opinion

*Official correspondence and permissions mentioned in Annex B are not attached to the ESMP but presented separately.*

## Annex C – Title Deed

BU BELGE TOPLAM 2 SAYFADAN OLUŞMAKTADIR BİLGİ AMAÇLIDIR.

Tarih: 2-11-2022-11:49



### Tapu Kaydı (Aktif Malikler için Detaysız - ŞBİ yok)

#### TAPU KAYIT BİLGİSİ

Zemin Tipi:	AnaTasınmaz	Ada/Parsel:	7099/58
Taşınmaz Kimlik No:	43799555	AT Yüzölçüm(m2):	165796.25
İl/İlçe:	KAYSERİ/KOCASINAN	Bağımsız Bölüm Nitelik:	
Kurum Adı:	Kocasinan	Bağımsız Bölüm Brüt Yüzölçümü:	
Mahalle/Köy Adı:	ŞEKER Mah.	Bağımsız Bölüm Net Yüzölçümü:	
Mevkii:	-	Blok/Kat/Giriş/BBNo:	
Cilt/Sayfa No:	21/2006	Arsa Pay/Payda:	
Kayıt Durum:	Aktif	Ana Taşınmaz Nitelik:	Arsa

### MÜLKİYET BİLGİLERİ

(Hisse) Sistem No	Malik	El Birliği No	Hisse Pay/ Payda	Metrekare	Toplam Metrekare	Edinme Sebebi-Tarih-Yevmiye	Terkin Sebebi-Tarih-Yevmiye
123044124	(SN:2861557) KAYSERİ BÜYÜKŞEHİR BELEDİYESİ SU VE KANALİZASYON İDARESİ (KASKİ) VKN:5400039871	-	1/1	165796.25	165796.25	Ada/Parsel/ Mevki Bilgilerinin Düzeltilmesi 09-12-2010 22558	-

Bu belgeyi akıllı telefonunuzdan karekod tarama programları ile aşağıdaki barkodu taratarak;

1 / 2

BU BELGE TOPLAM 2 SAYFADAN OLUŞMAKTADIR BİLGİ AMAÇLIDIR.

Tarih: 2-11-2022-11:50



### Tapu Kaydı (Aktif Malikler için Detaysız - ŞBİ yok)

#### TAPU KAYIT BİLGİSİ

Zemin Tipi:	AnaTasınmaz	Ada/Parsel:	7099/59
Taşınmaz Kimlik No:	43799189	AT Yüzölçüm(m2):	1002.33
İl/İlçe:	KAYSERİ/KOCASINAN	Bağımsız Bölüm Nitelik:	
Kurum Adı:	Kocasinan	Bağımsız Bölüm Brüt Yüzölçümü:	
Mahalle/Köy Adı:	ŞEKER Mah.	Bağımsız Bölüm Net Yüzölçümü:	
Mevkii:	Devlet Çiftliği Köy Önü	Blok/Kat/Giriş/BBNo:	
Cilt/Sayfa No:	14/1353	Arsa Pay/Payda:	
Kayıt Durum:	Aktif	Ana Taşınmaz Nitelik:	Tarla

### MÜLKİYET BİLGİLERİ

(Hisse) Sistem No	Malik	El Birliği No	Hisse Pay/ Payda	Metrekare	Toplam Metrekare	Edinme Sebebi-Tarih-Yevmiye	Terkin Sebebi-Tarih-Yevmiye
336712860	(SN:2861557) KAYSERİ BÜYÜKŞEHİR BELEDİYESİ SU VE KANALİZASYON İDARESİ (KASKİ) VKN:5400039871	-	1/1	1002.33	1002.33	4706 S.Y. Kapsamında Hazine Mallarının Satışı 04-04-2016 9441	-



1 / 2



Zoning And Land Layout

## Annex D – Site Photographs

<b>Photo No: 01</b>	
<b>Date: 05.03.2025</b>	
<b>Location:</b> <b>Subproject Area/Pumping Station</b>	
<b>Details/Notes:</b>	
<b>Photo No: 02</b>	
<b>Date: 05.03.2025</b>	
<b>Location:</b> <b>Subproject Area</b>	
<b>Details/Notes:</b>	
<b>Photo No: 03</b>	
<b>Date: 05.03.2025</b>	
<b>Location:</b> <b>Subproject Area</b>	
<b>Details/Notes:</b>	
<b>Photo No: 04</b>	
<b>Date: 05.03.2025</b>	
<b>Location:</b> <b>Şeker Neighborhood</b>	
<b>Details/Notes:</b> <b>Consultation of Mukhtar of Şeker Neighborhood</b>	

<b>Photo No: 05</b>	
<b>Date: 05.03.2025</b>	
<b>Location:</b> <b>Subproject Area</b>	
<b>Details/Notes:</b> <b>Livestock house</b>	
<b>Photo No: 06</b>	
<b>Date: 05.03.2025</b>	
<b>Location:</b> <b>Subproject Area</b>	
<b>Details/Notes:</b> <b>Entrance Gate to the Sub-Project Area</b>	

**Annex E – Baseline Measurements**

## Annex F – E&S Incident Notification Form Template

1) Incident Details			
<b>Date of Incident:</b> [Please indicate]		<b>Time of Incident:</b> [Please indicate]	
<b>Location of the Incident:</b>		[Please indicate]	
<b>Full Name of Sub-borrower:</b>		[Please indicate]	
<b>Date Reported to ILBANK:</b> [Please indicate]		<b>Reported to ILBANK by:</b> [Please indicate]	<b>Notification Type:</b> [ Please indicate; e-mail/phone call/media notice/other ]
<b>Date Reported to WB:</b> [Please indicate]		<b>Reported to WB by:</b> [ Please indicate ]	<b>Notification Type:</b> [ Please indicate; e-mail/phone call/media notice/other ]
<b>Full Name of the Contractor of the Sub-project:</b>		[ Please indicate ]	
<b>Full Name of the Sub-contractor involved in the incident:</b>		[ Please indicate ]	
2) Type of incident (please check all that apply) <sup>4</sup>			
<input type="checkbox"/> Fatality <input type="checkbox"/> Lost time injury <input type="checkbox"/> Displacement without due process <input type="checkbox"/> Child labor <input type="checkbox"/> Forced labor <input type="checkbox"/> Disease outbreaks		<input type="checkbox"/> Acts of violence/protest <input type="checkbox"/> Unexpected impacts on heritage resources <input type="checkbox"/> Unexpected impacts on biodiversity resources <input type="checkbox"/> Environmental pollution incident <input type="checkbox"/> Dam failure <input type="checkbox"/> Other	
3) Description/Narrative of Incident			
<p><i>For example:</i></p> <p>I. What is the incident? [Please briefly describe]</p> <p>II. What were the conditions or circumstances under which the incident occurred (if known)? [Please briefly describe]</p> <p>III. Are the basic facts of the incident clear and uncontested, or are there conflicting versions? What are those versions? [Please briefly describe]</p> <p>IV. Is the incident still ongoing or is it contained? [Please briefly describe]</p> <p>V. Have any relevant authorities been informed? [Please briefly describe]</p>			
4) Actions taken to contain the incident			
Short Description of Action	Responsible Party	Expected Date	Status

<sup>4</sup> See Appendix 2 for definitions.

**For incidents involving a Contractor:**

**Name of Contractor:**

**Have the works been suspended? Yes ☐ No ☐**

**Note: Please attach a copy of the instruction suspending the works**

**5) What support has been provided to affected people**

*[Please briefly describe]*

**APPENDICES**

**Appendix 1: Supporting documents**

**[Note: Please mark the relevant documents available at this stage and submit them attached to the report]:**

- ☐ Copy of the social security registration records of the victims and involved persons
- ☐ Copy of the instruction suspending the works
- ☐ Statement of victims
- ☐ Statement of witnesses
- ☐ Copies of notifications done to the relevant authorities
- ☐ Copies of legal investigation reports of relevant authorities
- ☐ Copies of E&S training records of the affected and involved persons
- ☐ Copies of OHS training records of the affected and involved persons
- ☐ Photographs related to the incident
- ☐ Others

**Appendix 2: Incident Types**

**The following are incident types to be reported using the environmental and social (E&S) incident response process:**

**Fatality:** Death of a person(s) that occurs within one year of an accident/incident, including from occupational disease/illness (e.g., from exposure to chemicals/toxins).

**Lost Time Injury:** Injury or occupational disease/illness (e.g., from exposure to chemicals/toxins) that results in a worker requiring 3 or more days off work, or an injury or release of substance (e.g., chemicals/toxins) that results in a member of the community needing medical treatment.

**Acts of Violence/Protest:** Any intentional use of physical force, threatened or actual, against oneself, another person, or against a group or community, that either results in or has a high likelihood of resulting in injury, death, psychological harm, deprivation to workers or project beneficiaries, or negatively affects the safe operation of a project worksite.

**Disease Outbreaks:** The occurrence of a disease in excess of normal expectancy of number of cases. Disease may be communicable or may be the result of unknown etiology.

**Displacement Without Due Process:** The permanent or temporary displacement against the will of individuals, families, and/or communities from the homes and/or land which they occupy without the provision of, and access to, appropriate forms of legal and other protection and/or in a manner that does not comply with an approved resettlement action plan.

**Child Labor:** An incident of child labor occurs: (i) when a child under the age of 14 (or a higher age for employment specified by national law) is employed or engaged in connection with a project, and/or (ii) when a child over the minimum age specified in (i) and under the age of 18 is employed or engaged in connection with a project in a manner that is likely to be hazardous or interfere with the child's education or be harmful to the child's health or physical, mental, spiritual, moral or social development.

**Forced Labor:** An incident of forced labor occurs when any work or service not voluntarily performed is exacted from an individual under threat of force or penalty in connection with a project, including any kind of involuntary or compulsory labor, such as indentured labor, bonded labor, or similar labor-contracting arrangements. This also includes incidents when trafficked persons are employed in connection with a project.

**Unexpected Impacts on heritage resources:** An impact that occurs to a legally protected and/or internationally recognized area of cultural heritage or archaeological value, including world heritage sites or nationally protected areas not foreseen or predicted as part of project design or the environmental or social assessment.

**Unexpected impacts on biodiversity resources:** An impact that occurs to a legally protected and/or internationally recognized area of high biodiversity value, to a Critical Habitat, or to a Critically Endangered or Endangered species (as listed in IUCN Red List of threatened species or equivalent national approaches) that was not foreseen or predicted as part of the project design or the environmental and social assessment. This includes poaching or trafficking of Critically Endangered or Endangered species.

**Environmental pollution incident:** Exceedances of emission standards to land, water, or air (e.g., from chemicals/toxins) that have persisted for more than 24 hours or have resulted in harm to the environment.

**Dam failure:** A sudden, rapid, and uncontrolled release of impounded water or material through overtopping or breakthrough of dam structures.

**Other:** Any other incident or accident that may have a significant adverse effect on the environment, the affected communities, the public, or the workers, irrespective of whether harm had occurred on that occasion. Any repeated non-compliance or recurrent minor incidents which suggest systematic failures that the task team deems needing the attention of Bank management.

## Annex G – E&S Incident Investigation Form Template

1) Investigation Findings						
<p><i>For example:</i></p> <ul style="list-style-type: none"> <li>I. <i>where and when the incident took place,</i></li> <li>II. <i>who was involved, and how many people/households were affected,</i></li> <li>III. <i>what happened and what conditions and actions influenced the incident,</i></li> <li>IV. <i>what were the expected working procedures and were they followed,</i></li> <li>V. <i>did the organization or arrangement of the work influence the incident,</i></li> <li>VI. <i>were there adequate training/competent persons for the job, and was necessary and suitable equipment available,</i></li> <li>VII. <i>what were the underlying causes; where there any absent risk control measures or any system failures.</i></li> </ul>						
2) Corrective Actions from the investigation to be implemented (to be fully described in Corrective Action Plan)						
Action	Responsible Party		Expected Date			
3a) Fatality/Lost Time Injury Information						
Fatality <input type="checkbox"/>			Lost time injury <input type="checkbox"/>			
<p><b>Immediate cause of fatality/injury for worker or member of the public (please check all that apply) <sup>5</sup>:</b></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Caught in or between objects  <input type="checkbox"/> Struck by falling objects  <input type="checkbox"/> Stepping on, striking against, or struck by objects  <input type="checkbox"/> Drowning  <input type="checkbox"/> Chemical, biochemical, material exposure  <input type="checkbox"/> Falls, trips, slips  <input type="checkbox"/> Fire &amp; explosion  <input type="checkbox"/> Electrocution  <input type="checkbox"/> Homicide </div> <div style="width: 48%;"> <input type="checkbox"/> Medical Issue  <input type="checkbox"/> Suicide  <input type="checkbox"/> Project Vehicle Work Travel  <input type="checkbox"/> Non-project Vehicle Work Travel  <input type="checkbox"/> Project Vehicle Commuting  <input type="checkbox"/> Non-project Vehicle Commuting  <input type="checkbox"/> Vehicle Traffic Accident (Members of Public Only)  <input type="checkbox"/> Other </div> </div>						
Name	Age/ Date of Birth	Nationality	Gender	Date of Fatality/ Injury	Cause of Fatality/ Injury	Affected Party (Employee/ Public)
			<input type="checkbox"/> Female <input type="checkbox"/> Male			<input type="checkbox"/> Sub-borrower employee <input type="checkbox"/> Contractor employee <input type="checkbox"/> Sub-contractor employee <input type="checkbox"/> Public

<sup>5</sup> See Appendix 1 for definitions

**3b) Financial Support/Compensation Types (to be fully described in Corrective Action Plan template – template is given in Appendix 3)**

- |  |  |
|--|--|
| <input type="checkbox"/> No Compensation Required                  | <input type="checkbox"/> Contractor Insurance              |
| <input type="checkbox"/> Workman's Compensation/National Insurance | <input type="checkbox"/> Other                             |
| <input type="checkbox"/> Contractor Direct                         | <input type="checkbox"/> Court Determined Judicial Process |

Name	Compensation Type	Compensation Amount (TRY)	Responsible Party

#### 4) Supplementary Narrative

## Appendix 1: Definition of fatality/injury immediate causes

1. **Caught in or between objects:** caught in an object; caught between a stationary object and moving object; caught between moving objects (except flying or falling objects).
2. **Struck by falling objects:** slides and cave-ins (earth, rocks, stones, snow, etc.); collapse (buildings, walls, scaffolds, ladders, etc.); struck by falling objects during handling; struck by falling objects.
3. **Stepping on, striking against, or struck by objects:** stepping on objects; striking against stationary objects (except impacts due to a previous fall); Striking against moving objects; Struck by moving objects (including flying fragments and particles) excluding falling objects.
4. **Drowning:** respiratory impairment from submersion/emersion in liquid.
5. **Chemical, biochemical, material exposure:** exposure to or contact with harmful substances or radiations.
6. **Falls, trips, slips:** falls of persons from heights (e.g., trees, buildings, scaffolds, ladders, etc.) and into depths (e.g., wells, ditches, excavations, holes, etc.) or falls of persons on the same level.
7. **Fire & explosion:** exposure to or contact with fires or explosions.
8. **Electrocution:** exposure to or contact with electric current.
9. **Homicide:** a killing of one human being by another.
10. **Medical Issue:** a bodily disorder or chronic disease.
11. **Suicide:** the act or an instance of taking, or attempting to take, one's own life voluntarily and intentionally.
12. **Others:** any other cause that resulted in a fatality or injury to workers or members of the public.

### Vehicle Traffic

- 13. Project Vehicle Work Travel:** traffic accidents in which project workers, using project vehicles, are involved during working hours and which occur in the course of paid work.
- 14. Non-project Vehicle Work Travel:** traffic accidents in which project workers, using non-project vehicles, are involved during working hours and which occur in the course of paid work.
- 15. Project Vehicle Commuting:** traffic accidents in which project workers, using project vehicles, are involved while travelling to (i) the worker's principal or secondary residence; (ii) the place where the worker usually takes his or her meals; or (iii) the place where he or she usually receives his or her remuneration.
- 16. Non-project Vehicle Commuting:** traffic accidents in which project workers, using non-project vehicles, are involved while travelling to (i) the worker's principal or secondary residence; (ii) the place where the worker usually takes his or her meals; or (iii) the place where he or she usually receives his or her remuneration.
- 17. Vehicle Traffic Accident (Members of Public Only):** traffic accidents in which non-project workers/members of the public are involved in an accident while travelling for any purpose.

## Appendix 2: Supporting documents

[Note: Please mark the relevant documents available and submit them attached to the report]:

- ☐ Copy of the social security registration records of the victims and involved persons
- ☐ Copy of the instruction suspending the works
- ☐ Statement of victims
- ☐ Statement of witnesses
- ☐ Copies of notifications done to the relevant authorities
- ☐ Copies of legal investigation reports of relevant authorities
- ☐ Copies of E&S training records of the affected and involved persons
- ☐ Copies of OHS training records of the affected and involved persons (such as basic OHS training, induction training, visitors training, job-specific training, refreshment training, etc.)
- ☐ Photographs related to the incident
- ☐ Health examination records of the affected and involved employees
- ☐ Copies of Personal Protective Equipment delivery forms (signed copies)
- ☐ Root Cause Analysis completed for the incident
- ☐ Information/documentation related to any judicial process
- ☐ Others

## Appendix 3: Corrective Action Plan template

Action No:	Brief Description of E&S non-compliance	Corrective Action	Financial and Human Resources Required	Responsible Party	Due Date for Completion of Corrective Action	Indicators for Successful Completion of Corrective Action	Status of Corrective Action

## Annex H – Chance Find Procedure

### Chance Find Procedure

#### Introduction

This document describes the Chance Find Procedure for subproject, outlining the procedures that will be followed in case of chance finds occur during the construction activities associated with the subproject.

#### Scope

This Chance Find Procedure (CFP) will be implemented for Kayseri Water and Sewerage Directorate (KASKİ)-ŞEKER SPP sub-project in order to manage any chance finds that may be encountered during the construction activities. The purpose of the CFP document is to:

- outline the applicable legislation and standards relevant to this procedure;
- define roles and responsibilities;
- define project commitments, operational procedures, training requirements and guidance relevant to this procedure; and
- define monitoring and reporting procedures.

Although there are no known archaeological sites or remains within the subproject area, it is considered that there may be a potential to encounter archaeological findings during the construction of the subproject. Activities which have high potential to lead to discover or adversely affect the archeological resources are;

- topsoil stripping
- excavation and earthworks

This CFP is prepared in order to provide information to the contractors and employees regarding the actions to be taken in case of an archaeological chance find discovery.

#### Legislation and Standards

Legislation and standards that apply to the project comprise the following:

- Word Bank Environmental and Social Standard (ESS) 8: Cultural Heritage
- applicable Turkish laws and national standards
- other commitments to and requirements of Turkish government authorities
- other industry guidelines with which the project has committed to comply

In Türkiye, movable and immovable cultural and natural assets are protected and preserved by the Law on Preservation of Cultural and Natural Assets (Law No. 2863) published in the Official Gazette dated 23.07.1983 and numbered 18113. Law 2863 establishes legal protection for the following:

- all natural assets and immovable cultural assets constructed up until the end of the 19<sup>th</sup> century,
- any immovable cultural asset from after the end of the 19<sup>th</sup> century, identified by the Ministry of Culture and Tourism as an important asset worthy of preservation,
- all immoveable cultural assets located within archeological sites,

- buildings/areas that have witnessed significant historical events during the National War and the foundation of the Turkish Republic and dwellings that have been used by Mustafa Kemal ATATÜRK, regardless of time and registration.

The Ministry of Culture and Tourism is the responsible body to take decisions for protection of cultural heritage in Türkiye at the national level. As part of the Ministry, the High Commission for the Protection of Cultural Assets is responsible for protecting and restoring immovable cultural assets. Implementation of the decisions and regulations issued by the Ministry are undertaken by local administrations. At local level, there are Cultural Assets Protection Regional Boards defined by the Ministry of Culture and Tourism, which are responsible for preservation, registration and classification of cultural heritage within their respective jurisdictions. The relevant Regional Board for the project is the Kayseri Cultural Heritage Protection Regional Board Directorate.” According to Law 2863, all the natural and cultural assets qualified for legal preservation are properties of the State. Therefore, regional boards have the power and authority to provide legal protection to the preservation sites and to approve or reject all the activities, which have potential negative impacts on the preservation sites such as construction, demolition and excavation activities.

### Roles and Responsibilities

Principal roles and responsibilities for the implementation of this procedure are outlined below.

Role	Responsibilities
<b>Contractor -Project Manager</b>	<ul style="list-style-type: none"> <li>• Overall responsibility for the development, review, approval and coordination of the numerous activities required to initiate, conduct and complete construction.</li> <li>• Ensure that this procedure is prepared, and updated as required, based on the activities undertaken as part of the project.</li> <li>• Ensure that adequate resources are made available to implement the procedures and guidelines outlined in this procedure.</li> </ul>
<b>Contractor - Environmental and Social (E&amp;S) Expert</b>	<ul style="list-style-type: none"> <li>• Initiation, development, implementation and coordination of the CFP during construction.</li> <li>• Ensure that adequate training is given to all site personnel and sub- contractors, covering the procedures and guidelines outlined in this procedure. Establish appropriate control procedures and conduct audits as necessary.</li> <li>• Consultation with and reporting to relevant government bodies in case of potential archeological chance finds.</li> <li>• Record all confirmed chance finds by filling up the “Chance Find Reporting Form” and maintain copies in a log-book. Ensure that the chance finds log-book is up to date.</li> </ul>
<b>Contractor - Site Manager</b>	<ul style="list-style-type: none"> <li>• Day-to-day implementation of the provisions of the CFP in the field during construction.</li> <li>• Notify the E&amp;S Expert regarding potential chance finds during construction.</li> </ul>
<b>Employees</b>	<ul style="list-style-type: none"> <li>• Understand and comply with archeological chance finds procedures and guidelines outlined in this procedure.</li> <li>• Reporting of the potential chance finds to the Site Manager.</li> </ul>

### Impact Avoidance and Mitigation

In the event of an archaeological discovery, the following actions will be implemented:

- All staff involved in land clearance and excavation activities will take the responsibility for managing archaeological protection and will be trained in these aspects by the E&S Expert.
- In case any potential chance find is encountered, all construction activities will cease immediately in the vicinity of the chance find.

- The Site Manager will be contacted immediately. The discovered site location, the characteristics of the potential archaeological material and photos will be recorded by the Site Manager, who in turn will inform the E&S Expert.
- Kayseri Museum Directorate will be notified at the latest within three days after the chance find is encountered. Contact details of the Kayseri Museum Directorate are given below:  
Address: Cumhuriyet Mahallesi Kaleiçi Çarşı Kümeevler No:1/1 Melikgazi/KAYSERİ  
Telephone: 0 352 222 21 49  
E-mail: [kayserimuzesi@kultur.gov.tr](mailto:kayserimuzesi@kultur.gov.tr)
- The site and its vicinity will be secured 24 hours a day against damage or loss, until inspection by the authority.
- The E&S Expert will fill up a “Chance Find Report Form” for each confirmed chance find and inform the Project Manager about the date that the construction work can resume, which is determined by the authorities concerning the conservation of the heritage.
- Further steps to be followed and proper plan to be implemented for the management of the finds (Changes in the layout, conservation, preservation, restoration and salvage) will be decided and reported in writing by the authorities in charge.
- Photographs of the potential artifacts that are likely to be encountered in the construction site are presented in the following pages to be used during the training of the relevant staff.

## Verification and Monitoring

E&S Expert/s will record all cases of archaeological chance finds. He/she will fill up a “Chance Find Reporting Form” for each chance find confirmed by the authority and maintain copies in a logbook. A sample of a reporting form which can be used to record chance finds is included below. The chance find logbook will be summarized on an annual basis and records included in semi-annual monitoring reports to verify that correct management procedures have been followed. Action items will be taken in cases of non-adherence to this CFP.

## Reporting

Contractor will comply with reporting requirements including chance finds defined in site-specific ESMP (contractor will develop monthly and quarterly monitoring reports and submit to Kayseri Municipality/KASKI through supervision consultant; Kayseri Municipality/KASKI will examine submit the reports to ILBANK quarterly (and monthly if requested by ILBANK); ILBANK will inform the World Bank by providing regular semi-annual monitoring reports.

KASKI-ŞEKER SPP Subproject Chance Find Reporting Form		
<b>REGISTRATION</b>		
Name of recorder:		
Date and time of discovery:		
Site Name:	Coordinates	
	X	Y
Description of find:		
Photograph:		
Estimated weight and dimensions:		
<b>CONTACT PERSON</b>		
Name/Title/Duty:		
Date and Time:		
Contact information:		
Details of conversation:		
<b>DECISIONS</b>		
Any protection measures to be implemented:		

<b>Movable or immovable:</b> If moved, please specify the new location.	
<b>Further actions required:</b>	
<b>Recommence date and time:</b>	
<b>Notes:</b>	
<b>SUBMISSION</b>	
<b>Name:</b>	<b>Date:</b>

## Annex I – Change Notification Form

Change Notification Form	
Sub-project Name	
Sub-project Location	
Sub-project Phase	<input type="checkbox"/> Pre-construction
	<input type="checkbox"/> Construction
	<input type="checkbox"/> Operation
Name of the Institution Notifying the Change	
Date	
Category of the Change (please select all that apply)	<input type="checkbox"/> Legislative Change
	<input type="checkbox"/> Design Change
	<input type="checkbox"/> Schedule Change due to E&S factors
	<input type="checkbox"/> Project Schedule Changes due to technical, financial, legal or administrative factors
	<input type="checkbox"/> Changes due to E&S issues encountered at Sub-project implementation
	<input type="checkbox"/> Contractor or Construction Supervision Consultant Change
	<input type="checkbox"/> Other (please specify below)
Detailed Description of the Change(s)	
Documents Submitted with Change Notification Form	
Name of the Staff Notifying the Change	
Position of the Staff Notifying the Change	
Signature	

## Annex J – Consultation Form



### İSTİŞARE FORMU

İstişare Konusu	7335/1 parsel numaralı şahıs araziğinde yürütülen hayvancılık faaliyetlerinin, mülkiyeti KASKİ'ye ait olan 7099/58 parsel numaralı arazide yapılacak olan Şeker Güneş Enerjisi Santrali'nden etkilenip etkilenmeyeceği		
İstişare Yeri	[Redacted] 'un ahırısı		
Tarih ve Saat	18/04/2025 11:30	Hazırlayan	

Konu	Tartışılan Konular/Alınan Kararlar
	<p>Şeker Güneş Enerjisi Santrali için yapılacak alanın bazı yerlerinde köpekbaş hayvan dışkıları tespit edilmiş, proje alanına en yakın mesafedeki ahır sahibiyle bir görüşme gerçekleştirilmiş, projenin bu kişinin hayvancılık faaliyetlerini etkileyip etkilemeyeceği konusunda istişare edilmiştir.</p> <p>Bu istişare görüşmesinde 7335/1 parsel numaralı arazide ahır bulunan ve başlıca ekonomide faaliyetlerinin hayvancılık olduğunu belirten [Redacted] proje alanının çevresinin tel örgülerle çevrili olduğunu, birkaç hayvanın tellerin yırtılmış kısmından birkaç kez yantıştıkları, bu alanın girişini, proje alanının otlak olarak kullanmadıklarını, otlak olarak kullandıkları alanın Yenidöğün Mahallesi'nde yer aldığını, hayvanlarını orada otlattıklarını ifade etmiştir.</p>

### İstişare Görüşmesi Katılımcıları

Ad-Soyad	Kurum	Unvan	İmza
[Redacted]	Ahır Sahibi		[Redacted]
[Redacted]	Yenidöğün Mahalle Muhtarı		[Redacted]
[Redacted]	KASKİ	Makina Müh.	[Redacted]
[Redacted]	KASKİ	Elektrik Teknisy.	[Redacted]

# **TÜRKİYE PUBLIC AND MUNICIPAL RENEWABLE ENERGY PROJECT (PUMREP)**

## **KAYSERİ KASKİ KİBAAT-2 SPP PROJECT AND KAYSERİ ŞEKER SPP PROJECT**

### **Public Consultation Meeting Minutes**

**Meeting Date: 16.06.2025**

**Meeting Time: 15:00**

**Meeting Place: KASKİ Meeting Hall**

**This Public Consultation Meeting Minutes has been prepared by İLBANK A.Ş. within the scope of the Turkey Public and Municipal Renewable Energy Project (PUMREP) Kayseri KASKİ KİBAAT 2 SPP Project and Kayseri ŞEKER SPP Project supported by the World Bank (WB). This publication may not be reproduced and/or published by printing, photocopying or any other means without the permission of İLBANK and may not be used for purposes other than those for which it was produced without such permission.**

## **1. Public Consultation Meeting**

The KİBAAT-2 and Kayseri Şeker Solar Power Plant projects to be carried out by the Kayseri Water and Sewerage Administration are among the sub-projects to be financed within the scope of the Turkey Public and Municipal Renewable Energy Project (PUMREP), which was developed to support sustainable development and to promote the use of renewable energy in public facilities.

The Environmental and Social Management Plan (ESMP) and Stakeholder Engagement Plan were prepared in accordance with Turkish environmental and social legislation, World Bank Protection Policies, Environmental and Social Standards (ESS), including the World Bank General Environment, Health and Safety (EHS) Guidelines and Industry Sector Guidelines, and İLBANK's Environmental and Social Management Systems (ESMS). In addition to these studies, a public consultation meeting was held at 15:00 on 16.06.2025 at the KASKİ Meeting Hall after the completion of the ESMP and SEP specific to the subprojects. Announcements of the Public Consultation Meeting were published on the official website and in national and local newspapers. In addition, brochures regarding the meeting were hung in neighborhood mukhtar's offices and on billboards.

### **1.1. Summary**

At the Public Consultation Meeting, information about the project was provided by the consultant firm Kolay Enerji. Details are as follows:

The opening speech of the meeting was made by Kolay Enerji's Environmental Expert and Social Expert. General information was given about the WB-financed Turkey Public and Municipal Renewable Energy Project (PUMREP), the purpose of the project was explained, why this project was prepared and the activities to be carried out within the scope of the project were given.

Within the scope of Public Consultation Meeting, the areas where the sub-project will be carried out (as neighborhood, block and parcel), project power, technical specifications of equipment to be used, annual production of the project were specified and information was given that the legislative obligations were fulfilled.

General information about the Environmental and Social Management Plan (ESMP) of Kayseri KASKİ KİBAAT-2 SPP and Kayseri KASKİ ŞEKER SPP Projects, why the ESMP was prepared, and that the environmental and social risks of the sub-project were assessed within the scope of the ESMP were provided by the Environmental Expert from the consultancy firm. The contributions of the project to KASKİ and technical information about the project were provided, and the importance of how the construction activities would be carried out and how the impacts of the construction activities would be prevented within the scope of the project were emphasized. In addition, the consulting firm's social expert has indicated the channels through which potential complaints can be communicated during the construction and operation phases. Comprehensive information was provided to relevant stakeholders on how they could access these mechanisms, and communication methods were clearly shared.

### **1.2. Question-Answer Session**

This subsection presents the opinions, demands and questions of the participants during the Public Consultation Meeting and the answers received regarding these. Details are as follows:

**Question (Yenidoğan Neighborhood Mukhtar):** Yenidoğan Neighborhood is the closest neighborhood to the subproject. Will this project pose any risks to our neighborhood? Can you provide information?

**Answer:** All possible risks have been defined in the Environmental and Social Management Plan; and mitigation measures have been prepared for all possible risks. As a risk factor that may occur in this neighborhood; there may be discomfort caused by dust and noise from the construction machinery used. For this reason, frequent watering can be done with a water tanker to prevent dust formation. Construction machinery with silencers can be used to minimize noise formation.


**Question (Boğazköprü Neighborhood Mukhtar):** Roads are currently being dug for the high-speed train work in Boğazköprü Neighborhood. What will the road and traffic situation be like when this project starts?

**Answer:** During our field surveys, we identified several different access routes to the construction site other than the D260 highway; one of these access routes is an alternative route that passes through the KASKİ Wastewater Treatment Plant. In addition, prior to the commencement of construction work, a field survey will be conducted by KASKİ experts and consultants, as well as experts from the contractor company, and other alternative access routes will be identified.

### **1.3. Conclusion**

The Public Consultation Meeting lasted approximately one and a half hours, with the consultant company officials providing information about the project and a question-answer session held afterwards. The necessary information was provided to the public about the project and their questions were answered. After the meeting, Boğazköprü, Yenidoğan, Şeker Neighborhood Mukhtars, KASKİ officials and the consultant company met and the Public Consultation Meeting was evaluated, opinions were received and it was agreed that they would be in contact afterwards.

## 2. Participant List:

	<b>Toplantı Katılım Formu</b>	Doküman No : F_KEDB_010 Revizyon No : 0 Revizyon Tarihi : 4.04.2022 Yayın Tarihi : 4.04.2022 Sayfa No : 1 / 1
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Toplantı Adı:		KİBAAT-2 GES VE ŞEKER GES PROJESİ HALKIN KATILIMI TOPLANTISI (HKT)	
Toplantı Yeri		KASKİ GENEL MÜDÜRLÜĞÜ KONFERANS SALONU	
Toplantı Tarihi ve Saati:		16.06.2025 / 15:00	
S.NO	ADI SOYADI	KURUM / ÜNVAN	İMZA
1	İSMAİL		
2	Alper		
3	Recep		
4	Fatma		
5	Necmiye		
6	Onur D		
7	R. İren	KASKİ Plan proje D.B.	
8	Seda		
9	S. Melik	Afet işleri Daire Başkanı	
10	Alper	KASKİ Plan proje D.B.	
11	Abdullah	KASKİ Plan Proje D.B.	
12	Mehmet	ŞEKER Müh. Muhtarı	
13	Fatih	Afet işleri Daire Başkanı	
14	Ahmet		
15	Vejdi		
16	Nazım		
17	Şahin		
18	Osman		



## Toplantı Katılım Formu

Doküman No : F\_İKEDB\_010  
Revizyon No : 0  
Revizyon Tarihi : 4.04.2022  
Yayın Tarihi : 4.04.2022  
Sayfa No : 1 / 1

Toplantı Adı:		KİBAAT-2 GES VE ŞEKER GES PROJESİ HALKIN KATILIMI TOPLANTISI (HKT)	
Toplantı Yeri		KASKİ GENEL MÜDÜRLÜĞÜ KONFERANS SALONU	
Toplantı Tarihi ve Saati:		16.06.2025 / 15:00	
S.NO	ADI SOYADI	KURUM / ÜNVAN	İMZA
1	Cüneyt	1. Hukuk Müşaviri	
2	Alaettin	Tetkik ve İnceleme D.B.	
3	Yasin	Kanalizasyon D.B.	
4	Cemil	Şİ.G. D-Bşk.	
5	Abdullah	Tetkik Kurl. Bşk.	
6	Durhan		
7	Halil E		
8	Ömer	İLBAK Konya Bölge müf. Teknik Bşk.	
9	İsmail Opu	İLBAK Kayseri Bölge	
10	Yusuf İzzettin	İLBAK KAYSERİ BÖLGE	
11	Yusuf	Karshi - Şa Mat	
12	Mustafa	Karshi - Yatırım İncel. Bşk.	
13	Şükrü S	Kocasinon Belediyesi M. Bşk.	
14	Bekir G.A.P.	Kocasinon Belediyesi M. Bşk.	
15	Emre K	Karshi -	
16	Alaettin		
17	Eda Z.		
18			



## Toplantı Katılım Formu

Doküman No : F\_KEDB\_010  
Revizyon No : 0  
Revizyon Tarihi : 4.04.2022  
Yayın Tarihi : 4.04.2022  
Sayfa No : 1 / 1

Toplantı Adı:		KİBAAT-2 GES VE ŞEKER GES PROJESİ HALKIN KATILIMI TOPLANTISI (HKT)	
Toplantı Yeri		KASKİ GENEL MÜDÜRLÜĞÜ KONFERANS SALONU	
Toplantı Tarihi ve Saati:		16.06.2025 / 15:00	
S.NO	ADI SOYADI	KURUM / ÜNVAN	İMZA
1	Hamdi	KASKİ / Genel Müdürlük	
2	Murat	KBB / Etüt Projeler D.Bşk.	
3	Ölçüm	KASKİ	
4	Ziya	KASKİ Plan Proje D.Bşk.	
5	Osman	İller Bankası Kayseri Bölge	
6	YONUS	" " " "	
7	Ali Ülkü	KBB / Etüt ve Projeler Şb.M	
8	Sebnem	KBB / Etüt ve Projeler DB / İnşaat	
9	Beyza	KBB / Etüt ve Projeler DB / Mimar	
10	Seref	KBB / Etüt ve Projeler DB / Mimar	
11	Yasur	Bogazkaleli heyet üyesi	
12	Abdullah	Bogazkaleli heyet üyesi	
13	Cemal	Yenişehir heyet üyesi	
14	Ali	Yenişehir heyet üyesi	
15	Görkem	KASKİ	
16			
17			
18			

### 3. Annexes

#### Annex 1: Public Consultation Meeting Photos





**Annex-2: Newspaper Advertisements:**



**BASIN İLAN KURUMU  
İLAN BASKI DOĞRULAMA**

Doğrulama Kodu: PGBP64280-3R-D360UMHJ

İLAN BİLGİLERİ	
İlan Veren Hesabı:	KAYSERİ SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ
Evrak Numarası ve Tarihi:	E-35771024-755.02-67548 - 03.06.2025
Dosya Numarası ve Türü:	E-35771024-755.02-67548 - Diğer
İlan Numarası:	ILN02237736
Yayın:	KAYSERİ GERÇEK HABER (YYN-000470)
Yayın Eki:	YYN-000470-KAYSERİ STAR HABER otomatik mecra (YYNEK-000342)
İlan Yayın Tarihi:	04.06.2025

Bu belgenin doğruluğu <http://www.bik.gov.tr/e-uygulamalar/> adresinden veya yandaki karekod okutularak kontrol edilebilir.





## TALAS'TA ÇEVRE GÜNÜNE RENKLİ VE ANLAMLI KUTLAMA

Talas Belediyesi, 5 Haziran Dünya Çevre Günü kapsamında düzenlediği etkinliklerle çevre bilincine dikkat çekti. Yamaç Parasütü İniş Alanı'nda gerçekleştirilen programda, çevre ve geri dönüşüm temalı serginin yanı sıra el sanatları ürünleri vatandaşlarla buluştu.

Etkinlik kapsamında Talas'taki 23 okulun katılımıyla hazırlanan "Dönüşüm Evde Başla Çevre Sergisi" açıldı. Öğrencilerin atık malzemelerden ürettiği projeler ve geri dönüşüm odaklı çalışmalar katılımcılardan tam not aldı. Sergide, günlük hayatta çevreye duyarlılığın nasıl geliştirilebileceği üzerine farkındalık oluşturan pek çok eser yer aldı.

Aynı alanda, Talas Şehit Resul Erdal Aydemir Halk Eğitim Merkezi kursiyerlerinin yıl boyunca hazırladığı

el emeği ürünlerin yer aldığı yıl sonu sergisi de sanatseverlerle buluştu. El sanatlarındaki giyime, takılardan dekoratif objelere kadar geniş yelpazede ki eserler, ziyaretçilerden büyük beğeni topladı.

Programda konuşan Talas Belediye Başkanı Mustafa Yalçın, etkinliklerin çevre bilinci oluşturma yolunda önemli bir adım olduğunu vurguladı.

"Dönüşüm Evde Başla" anlayışıyla hareket ederek küçük dokunuşlarla büyük farklar yaratabileceğimizi

göstermeyi amaçladık."

Başkan Yalçın, iki sevincidir haber de vererek, "Osmaniye Kültür Sokakı'nda Çankale Müzesi, Su Medeniyetleri Galerisi gibi bir de çevre müzesi açacağız. Orada çocuklarımız çevreye alakalı eğitimlerine bir müze havası içerisinde devam edecekler. Temmuz ayının üçüncü haftasında da Talas'ın en büyük parkını, 100 bin metrekare alanda yaptığımız millet bahçesini açmayı planlıyoruz. İçinde 4 okul da bulunuyor. Yani eği-

time içi içe oldu." ifadelerini kullandı. İlçe Milli Eğitim Müdürü Mustafa Elmalı, bir ay önce başlatılan Dönüşüm Evde Başla projesinin sonuna gelindiğini belirterek, "Her hafta okullarımıza gönderilen afişler ve bilgilendirme videolarıyla birlikte çok güzel bir etkinliğe imza atıldı. Her bir standımızda okullarımızın yeni doğum malzemelerinden ürettiği ürünler bulunmaktadır" dedi.

Konuşmaların ardından sergilerin açılışını Talas Kaymakamı Yaşar

Dönmez, Talas Belediye Başkanı Mustafa Yalçın, İlçe Milli Eğitim Müdürü Mustafa Elmalı, okul yöneticileri ve öğrenciler birlikte kestikleri kurdele ile yapı.

Etkinlik alanını ziyaret eden vatandaşlar, sergileri gezmenin yanı sıra geri dönüşümle ilgili bilgilendirici broşürler edindi ve çevre dostu uygulamalara dair fikir alışverişinde bulundu. Öğrencilerin projeleri ise hem ikerik hem de yaratıcılık açısından takdir topladı.

Haber Merkezi



## KAYÜ "StartupMYO" GİRİŞİMCİLİK YARIŞMASI'NDA ÖDÜLLER SAHİPLERİNİ BULDU



Kayseri Üniversitesi'nin (KAYÜ) koordinatörlüğünde Meslek Yüksekokulu öğrencileri ve mezunlarına yönelik düzenlenen "StartupMYO" Girişimcilik Yarışması'nın finali ve ödül töreni gerçekleştirildi. MYO'ların cazibesini artırmayı ve öğrencilerin bilgi, beceri ve yeteneklerini ortaya çıkarmayı amaçlayan yarışmada, finale kalan 17 proje arasından ilk üçe giren projeler ödüllendirildi.



KAYÜ 15 Temmuz Yürüşleri Kongre ve Kültür Merkezi'nde düzenlenen ödül töreninde, açılış konuşmasını yapan yarışma koordinatörü Prof. Dr. Özgür Dürmüzoğlu, StartUpMYO'nun ülkenin kalkınmasına katkı sağlayacak genç girişimcilerin ortaya çıkmasına öncülük edeceğine inandığını belirterek, desteklerinden dolayı Rektör Prof. Dr. Kurtuluş Karamustafa'ya teşekkür etti.



KAYÜ Rektörü Prof. Dr. Kurtuluş Karamustafa, üniversitenin ana hedefinin, insanın ihtiyaç duyduğu nitelikli insan kaynağı olan mavi yakallıların entelektüel birlikteliği de sahip yükseköğretim mezuvarları arasında yetiştirmek olduğunu vurguladı.

AK Parti Milletvekili Murat Cahid Cingir ise, projelerin Türkiye'nin teknoloji ve üretim gücünü artırmadaki rolüne dikkat çekti. Cingir, "Bizler, bu vizyoner yarışma ile tipik Elon Musk ya da Şekip Bayraktar gibi alanların geleceğine yön veren öncü ve yenilikçi bireyler yetiştirme ve yeni fikirlerin önünü açma arzusunuzdayız. Bu tür etkinlikler, gençlerin sahip oldukları potansiyeli keşfetmeleri ve geliştirmeleri açısından

önemli fırsatlar sunmaktadır" dedi. Vali Gökmen Çiçek ise; MYO'ların, öğrencilere hem teorik bilgiyi hem de uygulamalı becerileri kazandırarak, onları iş hayatına hazır hale getiren değerli kurumlar olduğunu vurguladığını konuşmasında KAYÜ'nün mesleki eğitime verdiği önemin altını çizdi.



Konuşmaların ardından dereceye giren projelere ödülleri verildi.

"Pancar Tarımında Hassas Yabancı Ot Çapa Makinesi" projesi ile birinci olan öğrenciler ödülleri Vali Gökmen Çiçek'in elinden alırken "Dişyalz Hastalarına Yönelik Kapsamlı Mobil Takip Uygulaması" projesiyle ikinci olan öğrenciler ise ödülleri Milletvekili Dr. Murat Cahid Cingir'dan aldı. Üçüncü olan "ProTwin Dijital Dönüşüm (dijital dönüşüm süreçlerinde dijital izi oluşturma)" projesine ise ödülünü Rektör Prof. Dr. Kurtuluş Karamustafa takdim etti.

Etkinlik toplu fotoğraf çekiminin ardından sona erdi. Haber Merkezi

## ZEKİ GÜMÜŞ'TEN BAYRAM ÖNCESİ TEMİZLİK UYARISI

Cumhuriyet Halk Partisi Kocasinan Belediyesi Meclis Üyesi Zeki Gümüş, bir süre önce Oymaağaç Mahallesi Sanayi Sitesinde incelemelerde bulunmuş ve çöp yığınlarını tespit göstermişti. Gümüş, bu kez de belediye meclisinde bir konuşma yaparak, yaklaşan Kurban Bayramı öncesi kurban kesim noktalarında hijyen, temizlik ve halk sağlığı konularında çağrıda bulundu.

Bir süre önce Oymaağaç Mahallesi Sanayi Sitesinde incelemelerde bulunmuş ve çöplerin boş araziye atılarak yakılmasına tepki göstermişti. Zeki Gümüş, "Burada sanayi sitesindeki esnafın ve sanayicilerin çöpi alınmamakta. Bunlardan dolayı da esnaf çok mağdur durumda. Bu çevre kirliliğine karşı önlem alınması için Belediye Başkanımızı buralara davet ediyorum" demişti.

Gümüş bu kez belediye meclisinde konuşarak aynı konuyu yeniden gündeme getirdi. Zeki Gümüş ayrıca yaklaşan Kurban Bayramı öncesi kurban kesim noktalarında hijyen, temizlik

ve halk sağlığı konularında dikkat çekerek çağrıda bulunduğunu vurguladı. Belediyeyle gerekli önlemleri şimdiden almaya davet ettiğini belirten Cumhuriyet Halk Partisi Kocasinan Belediyesi Meclis Üyesi Zeki Gümüş, "Halkımızın sağlığı için süreci yakından takip edeceğiz" dedi. Haber Merkezi



## MİDESİNDE UYUŞTURUCU ÇIKTI, 12 YIL YEDİ

Midesinde 100 kapsül içinde 729 gram uyuşturucu maddeyle yakalanan şahıs 12 yıl 6 ay hapis cezasına verildi.

4 Mayıs 2024'te İl Emniyet Müdürlüğü Narkotik Suçlarla Mücadele Şube Müdürlüğü ekipleri, yabancu uyuşturucu A.H.'nin ülkeye giriş yaparak üzerindeki uyuşturucu maddeleri Kayseri'ye getireceğini tespit etti. Şahsı takibe alan ekipler, yerini tespit ettikten sonra operasyon düzenledi. Kayseri Şehir Hastanesinde ultrason çekimi ile yapılan kontrole şahsın midesinde çok sayıda kapsül olduğu tespit edildi. Yapılan operasyonla şahsın midesinden çıkarılan 100 adet kapsülün içerisinde 729 gram uyuşturucu madde ele geçirildi. İşlemlerin ardından adliyeye sevk edilen şüpheli, çıkarıldığı mahkemeye tutuklanarak cezaevine gönderildi.

8. Ağır Ceza Mahkemesi'nde görülen karar duruşmasında hakim karşısına çıkan A.H., savunmasını Türkiye yapararak, bir kere bile elinin uyuşturucuyla değmediğini, midesine zorla koyduklarını belirterek, pişman olduğunu ve Türk milletinden özür dilediğini söyledi. Sanığın avukatı ise, müvekkilinin etkin pişmanlıkta yararlandığını, kolluk güçlerine yardımcı olduğunu belirterek, ele geçirilen uyuşturucu miktarını yutarak getirmesinin hayatın olağan akışına ters olduğunu dile getirdi.

Yapılan yargılama sonucunda, yabancu uyuşturucu A.H.'ye 'uyuşturucu ticareti yapmak' suçundan 12 yıl 6 ay hapis cezası verildi. İHA



### DUYURU

#### Halkın Katılımı Toplantısı

Dünya Bankası tarafından finanse edilerek İller Bankası A.Ş. (İLBANK) aracılığıyla yürütülen "Türkiye Kamu ve Belediye Yenilebilir Enerji Projesi" kapsamında Kayseri Büyükşehir Belediyesi Su ve Kanalizasyon İdaresi Genel Müdürlüğü (KASKİ) tarafından "KASKİ KİBAAT-2 ve Şeker Güneş Enerji Santrali(GES) Projesinin" yapılması ve işletilmesi planlanmaktadır. Söz konusu altproje için aşağıda belirtilen tarih ve saatte faaliyetleri ilgili halkı bilgilendirmek, görüş ve önerilerini almak için "Halkın Katılımı Toplantısı" yapılacaktır.

Altproje kapsamında çevresel ve sosyal etkiler oluşabileceğinden, bu etkilerin yönetimi amacıyla Alt Proje'ye özel Çevresel ve Sosyal Yönetim Planı (ÇSYP) ile Paydaş Katılım Planı (PKP) hazırlanmıştır. Söz konusu planlar, KASKİ Genel Müdürlüğü'nün internet sitesinde kamuoyunun erişimine https://www.kaski.gov.tr/kaski-kibaat-2-gunes-enerjisi-santrali-(ges)-ve-seker-gunes-enerjisi-santrali-(ges)-projesi-ve-cvresel-sosyal-yonetim-plani-(csyp)-ve-paydas-katlim-plan-(pkp)-raporlari sunulmuştur.

Halkımıza saygı ile duyurulur.

<b>TOPLANTI</b>	<b>KURUM</b>	<b>KURUM</b>
Toplantı Yeri	: Kayseri Büyükşehir Belediyesi Su ve Kanalizasyon İdaresi Genel Müdürlüğü (KASKİ) Konferans Salonu	
Toplantı Yerinin Adresi	: Yakut Mahallesi Mustafa Kemal Paşa Bulvarı No:186 P.K: 38090 Kocasinan/ KAYSERİ	
Toplantı Tarihi	: 16.06.2025	
Toplantı Saati	: 15:00	

**PROJE SAHİBİ**  
Kayseri Büyükşehir Belediyesi Su ve Kanalizasyon İdaresi Genel Müdürlüğü (KASKİ)

Tel : 0 (352) 432 04 32  
Faks : 0 (352) 337 09 32  
Web : https://www.kaski.gov.tr  
e-posta : kaski@kaski.gov.tr

Çevresel ve Sosyal Yönetim Planlarını Hazırlayan Kuruluş:  
Kolay Enerji Mühendislik ve Danışmanlık  
Tel : +90 216 332 81 94  
Web : http://www.kolayenerji.com.tr  
e-posta : info@kolayenerji.com.tr

Resmî İlanlar: www.ilan.gov.tr/de Basın İL0223736

Figure 1: Advert on Local Level Newspaper



**BASIN İLAN KURUMU  
İLAN BASKI DOĞRULAMA**

Doğrulama Kodu: D0D3MKNAY-BA-D360UMHJ

İLAN BİLGİLERİ	
İlan Veren Hesabı:	KAYSERİ SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ
Evrak Numarası ve Tarihi:	E-35771024-755.02-67548 - 03.06.2025
Dosya Numarası ve Türü:	E-35771024-755.02-67548 - Diğer
İlan Numarası:	ILN02237736
Yayın:	SABAH (YYN-000647)
Yayın Eki:	YYN-000647-SABAH otomatik mecra (YYNEK-000021)
İlan Yayın Tarihi:	04.06.2025

Bu belgenin doğruluğu <http://www.bik.gov.tr/e-uygulamalar/> adresinden veya yandaki karekod okutularak kontrol edilebilir.





## BES AYLIK ENFLASYON ORANI MAAŞLARA NASIL YANSIYACAK

SSK VE BAĞ-KUR ENFLASYONUNA % 15,09 ZAM, MEMUR VE EMERİKLİNE % 14,01 ZAMİ ÇEPTİ



## BAYRAM REHAVETİYLE TEKRARLARI VE DENEME SINAVINI İHMAL ETMEYİN

LGS ADAYLARI DİKKAT, 15 HAZİRAN'A AZ SURE KALDI



## HACI ADAYLARI BUGÜN ARAFAT'A ÇIKIYOR

HACCIN EN ÖNEMLİ RUKNU OLAN Arafat'a çıkış bugün yapılacak. Kattillerin heinde persimbe sabah namazı vakidinden önce bitirilecek olan ihkaller için hazırlıklar tamamlandı.



## MİLYARDER İPEK, DJ İLE EVLENİYOR

225 milyon dolarlık sermayeyle Türkiye'nin en zengin 5'inci kadısı İpek Kırac, Bursa'da DJ Sezer Uysal ile Eylül ayında evleniyor. İpek Kırac, babası İnan Kırac'ın yapıldığı evliliğe karşı çıkmış ve nikahın geçersiz sayılmasını için dava açmıştı. BÜLENT ÇANKURT'UN HABERİ



## CELENEK BOZULMADI, SAMPIYON BASKAN SABAH SPOR'A KONUŞTU

SPOR Müdürümüz Murat Özboztaş ile yazdığımız Levent Tüzemen'in sorularını yanıtlayan Başkan Özboz, "Ağlara boyun eğmedik, hakem hatalarına rağmen ezici bir oyuna şampiyonluğa ulaştık" dedi. Galatasaray Başkanı, gelecek sezon Şampiyonlar Ligi için de iddialı mesajlar verdi. 18'DE

Türkiye'nin en iyi gazetesi

# SABAH

4 HAZİRAN 2025 CARSAMBA www.sabah.com.tr Fiyatı: 15 TL

## EZE EZE SAMPİYON OLDUK

SPOR Müdürümüz Murat Özboztaş ile yazdığımız Levent Tüzemen'in sorularını yanıtlayan Başkan Özboz, "Ağlara boyun eğmedik, hakem hatalarına rağmen ezici bir oyuna şampiyonluğa ulaştık" dedi. Galatasaray Başkanı, gelecek sezon Şampiyonlar Ligi için de iddialı mesajlar verdi. 18'DE



## BASKAN ERDOĞAN'DAN KURTULMUŞ'A TEBRIK

KURTULMUŞ'U ikinci dönem TBMM Başkanlığı için kutlayan Başkan Erdoğan, "Gazi Meclisimiz çatısı altında ki çalışmalarında kendilerini başarılar diliyorum" dedi. Kurtulmuş da Meclis'in, geçmişteki dönemde üzerine düşen tarihi görevi büyük uzlaşmayla yerine getireceğini söyledi. 12'DE



## F-35'LERE RAKIP 'HAYALET JET KAAN'



## SIRNAK YENİ ÇUKUROVA OLACAK

BAKIR yaylalar, yasak kapsamından çıkarılınca göçerler milyonlarca hayvanı olatmaya geliyor. 1,5 milyon dönüm arazi ile peydepey tarımı açılıyor. Yılda iki ürün alınan bölge yeni Çukurova olmaya aday.



## DEPREMDE PANİKLEYEN AFRA KALBİNE YENİLDİ

MARMARIS açıklarında meydana gelen ve civar illerde hissedilen 5,8'lik deprem panik yarattı. Fethiye'de 14 yaşındaki Afra Nur Çoşkun panik atakla bağlı kalp krizi nedeniyle yaşamını yitirdi. 75 kişi hastaneye başvurdu. 8'DE

# DOLAR DOLU ÇANTAYI KELEŞ'E ELDEN VERDİ

İtirafçı Ertan Yıldız, 5. dalgada tutuklanan CHP'li Erdoğan'ın, imamoğlu'nun kasası Keleş'e elden rüşvet verdiğini anlattı: Fatih, dolar dolu çantayı Aykut'tan alarak gitti



## ERDOĞAN, FIRMA ADINA RÜŞVET VERDİ

İBB'deki yolsuzluk soruşturmasında itirafçı olan işbirlikçi Daire Başkanı Ertan Yıldız, ifadesinde Sarachane de tanın oluyuşu kirliliği anlattı. Yıldız, yolsuzluk operasyonu kapsamında tutuklanan CHP'li eski milletvekili Aykut Erdoğan'ın, büyük bir firma adına rüşvet verdiğini söyleti.

## FATİH, DOLAR DOLU ÇANTAYI ALDI

AYKUT Erdoğan'ı benzeri olarak Sarachane'deki odama bir çanta ile geldi. Biz otururken odaya Fatih Keleş girdi. Her ikisi de 1 milyon 200 bin dolar gibi bir rakam telaffuz etti. Fatih, Aykut'a "Tamam mı?" diye sordu. "Tamam" cevabı üzerine çantamı fermuarını açarak kontrol etti ve götürdü.

## 5. DALGA YOLSUZLUK SORUŞTURMASI SUPHELİSİ İBB İHALELERİYLE MİLYARDER OLAN TAMIRCI REMZİ FIRARDA

## BAŞÖRTÜMÜ KASTEDEREK HAKARETLER SAVURDU

Marmaray'da Deniz E'nin darp edilmesiyle sonuçlanan tartışmanın perde arkasında kalan mağdur Zehra A. ilk kez konuştu. SOSYAL medyada büyük tepki uyandıran yumruklu saldırı öncesi Deniz E'nin sözleri, saldırısına maruz kalan Zehra A. (19) ifade verdi: Trenin biterken "Burada ne duruyorsun" gibi sözler söylendi. "Özür dilerim. Tren zaten sıkışık" dedim. Buna rağmen başörtümü kastederek hakaret içerikli konuşmalar yaptı. Tepki veremedim, ağlamaya başladım. 12'DE



## ÇALISANIN İNTİKAM UYKUSUZLUĞU

İBB'de yalıllı çalışanlar da son yıllarda "intikam uykusuzluğu" diye adlandırılan bir problem ortaya çıktı. Bu sorun, Nijm'in gün içinde kendine ayıracak zaman bulamaması yüzünden, uykusuz geçen saatleri bilgisayarla izlemeye başladığını anlatıyor.

## BİSİLET SÜRERKEN BASINDAN YÜRÜLDÜ 6 YAŞINDAKİ SAMİ, YORGUN MEHİR KURBANİ



## ABD'DE ÖZGÜRLÜK İŞRAİL SINIRINA KADAR

ABD'de özgürlük işraİL sınırına kadar. 12'DE

## DÜNYANIN GÖZÜNDE SAVAS SUÇLUSU

DÜNYANIN dört bir yanında İsrail'in canze de savaş suçları işlediğine dair sesler yükseliyor. Avrupa'da yapılan bir kamuoyu araştırmasında İsrail'e tepkilerin en yüksek seviyeye ulaşıldığı belirtildi. 9'DA





Annex 3: SMS Notification Sent to KASKİ's Subscribers:



## Annex 4: Public Consultation Meeting Brochure:

### PROJENİN AMACI VE FAYDALARI

KASKİ KİBAAT-2 GES ve KASKİ Şeker GES alt projeleri, Kayseri Büyükşehir Belediyesi Su ve Kanalizasyon İdaresinin elektrik enerji ihtiyacını karşılamayı ve yenilenebilir enerji kullanarak yerel kalkınmaya katkı sunmayı amaçlamaktadır.

Bu iki alt proje, kamu tesislerinde Yenilenebilir Enerji (YE) pazarının genişlemesine katkıda bulunacak ve ülkenin karbon emisyonu azaltma taahhütlerini karşılamak ile enerji güvenliğini artırmak için sürdürülebilir enerji çözümlerinin kullanılmasında kamu sektöründe öncü bir rol üstlenecektir.

### PROJE FİNANSMANI

Kamu ve Belediye Yenilenebilir Enerji Projesi (KABYEP) kapsamında finanse edilen alt projeler, Dünya Bankası (DB) kredisi ve İller Bankası A.Ş. aracılığı ile Kayseri Büyükşehir Belediyesi Su ve Kanalizasyon İdaresi (KASKİ) tarafından yürütülecektir.

KABYEP, merkezi hükümet binaları ve belediyelere odaklanarak, kamu sektöründe yenilenebilir enerji kullanımının yaygınlaştırılması konusunda Türkiye Cumhuriyeti'ni desteklemeyi amaçlamaktadır.

2

### PROJE TANITIMI

KASKİ KİBAAT-2 GES Projesi Kayseri ili, Kocasinan ilçesi, Boğazköprü mahallesi sınırları içerisinde, KASKİ Şeker GES Projesi ise Kayseri ili, Kocasinan ilçesi, Şeker mahallesi sınırları içerisinde kalmaktadır. Alt projelerin konumu aşağıda verilmiştir:



Şekil 1: KASKİ KİBAAT-2 GES Proje Alanı



Şekil 2: KASKİ Şeker GES Proje Alanı

Bu kapsamda kurulacak bu GES santrallerinden KASKİ KİBAAT-2 GES' in inşaatının 6 ay, KASKİ Şeker GES' in inşaatının ise 8 ay sürmesi planlanmaktadır.

3

KASKİ KİBAAT-2 GES Projesi'nin 2,86 MWe gücünde, KASKİ Şeker GES Projesi'nin 8,600 MWe gücünde elektrik üretmesi beklenmektedir. KASKİ KİBAAT-2 GES Projesi'nin, Kayseri ili, Kocasinan ilçesi, Boğazköprü Mahallesi, 167 ada, 1 parselde; KASKİ Şeker GES Projesi'nin ise Kayseri ili, Kocasinan ilçesi, Şeker Mahallesi, 7099 ada, 58 parselde gerçekleştirilmesi planlanmaktadır. Alt proje yerleri Şekil 1 ve Şekil 2'de gösterilmiştir.

### ÇEVRESEL VE SOSYAL ETKİLER

Her iki alt proje kapsamında çevresel ve sosyal etkiler oluşabilir. Bu etkiler; inşaatın niteliğine, yerleşim yerlerine yakınlığına ve mevcut altyapıya göre değişebilir.

Bu etkileri yönetebilmek üzere her iki alt proje özelinde Çevresel ve Sosyal Yönetim Planı (ÇSYP) ve Paydaş Katılım Planları (PKP) hazırlanmıştır. Bu planlar KASKİ'nin internet sitesinde yer almaktadır:

[https://www.kaski.gov.tr/kaski-kibaat-2-gunes-enerjisi-santrali-\(ges\)-ve-seker-gunes-enerjisi-santrali-\(ges\)-projeleri-cevresel-sosyal-yonetim-planlari-\(csyp\)-ve-paydas-katilim-planlari-\(pkp\)-raporlari](https://www.kaski.gov.tr/kaski-kibaat-2-gunes-enerjisi-santrali-(ges)-ve-seker-gunes-enerjisi-santrali-(ges)-projeleri-cevresel-sosyal-yonetim-planlari-(csyp)-ve-paydas-katilim-planlari-(pkp)-raporlari)

4

**Annex 5: Public Consultation Meeting Announcement Posters Hanged in Mukhtars' Offices:**

**Yenidogan Neighborhood Mukhtar's Office**



## Şeker Neighborhood Mukhtar's Office



## Boğazköprü Neighborhood Mukhtar's Office

