



GÖLBAŞI SOLAR POWER PLANT SUB-PROJECT

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

GÖLBAŞI MUNICIPALITY

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Table of Contents

List of Tables	v
List of Figures	vi
List of Abbreviations.....	vii
1. EXECUTIVE SUMMARY	1
2. SUB-PROJECT DESCRIPTION	4
3. LEGAL AND INSTUTIONAL FRAMEWORK	6
3.1. National Legislation.....	6
3.2. International Standards.....	8
4. E&S SCREENING	9
5. BASELINE.....	11
5.1. Environmental Baseline	11
5.1.1. Location and Topography	11
5.1.2. Geography	13
5.1.3. Climate	15
5.1.4. Flora and Fauna.....	17
5.1.5. Earthquake Risks	18
5.1.6. Hydrology and Flood Risks.....	20
5.1.7. Soil Capability and Agriculture.....	25
5.2. Project Land Use Rights	27
5.3. Socioeconomic Baseline.....	28
5.3.1. Demography.....	28
5.3.2. Economic Sectors and Facilities.....	29
5.3.3. Cultural Heritage	29
6. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN.....	32
6.1. Mitigation Plan for the Sub-Project.....	33
6.2. Monitoring Plan for the Sub-Project	42
7. STAKEHOLDER ENGAGEMENT.....	48
7.1. Stakeholder Engagement	48
7.1.1. Previous Stakeholder Engagement Activities.....	48
7.1.2. Stakeholder Identification and Analysis.....	48

7.1.3.	Stakeholder Engagement Plan	50
7.1.4.	Roles and Responsibilities	56
7.1.5.	Grievance Mechanism	56
7.1.6.	Monitoring and Reporting.....	59
8.	MONITORING AND REPORTING.....	61
9.	CONCLUSION	62
10.	APPENDICES	63
	Annex 1: Official Decision of Ankara Governorship Provincial Directorate of Environmental and Urbanization for EIA Not Required.....	63
	Annex 2: Official Decision of Ankara Governorship Provincial Directorate of Environmental and Urbanization	64
	Annex 3: Official Decision of Ankara Agriculture and Forestry Directorate	66
	Annex 4: Official Decision of Ministry of Culture and Tourism/ Investments and Enterprises General Directorate	67
	Annex 5: Official Decision of Ministry of Culture and Tourism/ Cultural Assets and Museums General Directorate	68
	Annex 6: Official Decision of General Directorate of Highways 4th Regional Directorate .	69
	Annex 7: Official Decision of Ankara Provincial Health Directorate	70
	Annex 8: Gölbaşı SEPA's Sensitive Areas Map (MoEUCC, 2015).....	72
	Annex 9: Energy Market Regulatory Authority Expropriation Department	73
	Annex 10: Ministry of Transport and Infrastructure, General Directorate of Civil Aviation, Department of Airports.....	74
	Annex 11: Official Decision of Ministry of Transport and Infrastructure, General Directorate of Infrastructure Investments	77
	Annex 12: Call Letter from TEDAŞ	78
	Annex 13: Environmental and Social Screening Checklist	79
	Annex 14: Title Deed Information	84

List of Tables

Table 2-1: Planned SPP Technical Details.....	5
Table 5-1 Species and Conservation Status according to IUCN, BERN, CITES and CHC ..	18
Table 5-2: Planned SPP Land Information	27
Table 5-3: Gölbaşı Population by Years (TÜİK, 2023).....	28
Table 6-1: Mitigation Plan for the Construction Phase.....	33
Table 6-2: Mitigation Plan for the Operation Phase	40
Table 6-3: Monitoring Plan for the Construction Phase	42
Table 6-4: Monitoring Plan for the Operation Phase.....	46
Table 7-1. Comprehensive List of the Stakeholder Identified for the Sub-Project	48
Table 7-2. Potential Vulnerable/Disadvantaged Groups and their needs.....	50
Table 7-3.Stakeholder Engagement Program During the Construction and Operation Phase	51
Table 7-4. Responsibilities of Key Actors/Stakeholders in SEP Implementation.....	56
Table 7-5. Grievance Mechanism Flowchart	58
Table 7-6. SEP Monitoring Framework	59
Table 8-1 Reporting Process Requirements and Distribution of Roles	61

List of Figures

Figure 2-1 Gölbaşı SPP Sub-Project Area and Urban Macroform	4
Figure 2-2 Project Area	6
Figure 5-1 Area of Influence of the Sub-Project.....	11
Figure 5-2 Geographical location of Ankara Province and Sub-Project Area.....	12
Figure 5-3 Location of SPP Sub-project Area in the Gölbaşı SEPA.....	13
Figure 5-4 Topography Map of Gökçeşh������ Neighborhood	14
Figure 5-5 Topographic Elevation Map of Ankara Province and SPP Sub-project Area, (R����������, 2020)	15
Figure 5-6 Ankara Province Solar Atlas and SPP Sub-Project Area.....	16
Figure 5-7 a) G�������� District Radiation Values (KWh/m ² day) b) G�������� District sunshine Times (hours) c) G�������� PV type-Area-Energy That Can Be Produced (KWh year)	17
Figure 5-8: Faults in G���������� and its Region, General Directorate of Mineral Research and Exploration (MTA)	19
Figure 5-9:Earthquake Hazard Map of Sub-Project Area and Surroundings, T�������� Earthquake Hazard Maps Interactive Web Application, 2023, (https://tdth.afad.gov.tr).....	20
Figure 5-10: Mogan and Eymir Lakes Surfaces Water System (MoEUCC, 2015)	22
Figure 5-11: USBS G�������� District and Surrounding Flood Risk Q500.....	23
Figure 5-12: Floods in the Past in the G�������� District and SPP Sub-project Area by Atlas 2024	24
Figure 5-13 Mogan Lake Flood Trap Area (Anadolu Ajansı, 2018).....	25
Figure 5-14: G�������� Agricultural Land Capability (MoEUCC, 2015)	27
Figure 5-15 G�������� District Population by Years (T������, 2023).....	29
Figure 5-16 Cultural Assets in G�������� District and Surroundings (Culture Inventory, 2024) 30	
Figure 5-17 G���������� Neighborhood Cultural Assets	31
Figure 5-18 G������ Mound (Arkeo Denemeler, 2015)	31

List of Abbreviations

Abbr.	
AF	Additional Finance
AFAD	Disaster and Emergency Management Directorate
AoI	Area of Influence
BMP	Biodiversity Management Plan
CHMP	Cultural Heritage Management Plan
CLO	Community Liaison Officer
CR	Critically Endangered
E&S	Environmental and Social
EIA	Environmental Impact Assessment
EMRA	Republic of Türkiye Energy Market Regulatory Authority
EN	Endangered
EPRP	Emergency Preparedness and Response Plan
ESG	Environmental Social Governance
ESMF	Environmental Social Management Framework
ESMP	Environmental and Social Management Plan
FI	Financial Intermediary
GM	Grievance Mechanism
HS	Health and Safety
HSE	Health Safety Environment
ILBANK	İller Bankası A.Ş
ILO	International Labor Organization
kWe	Kilo Watt Electric
kWh	Kilo Watt Hour
kWp	Kilo Watt Peak
MoEUCC	Ministry of Environment, Urbanisation and Climate Change
MoIT	Ministry of Industry and Technology
MW	Mega Watt
MWe	Mega Watt Electric
MWh	Mega Watt Hour
MWp	Mega Watt Peak
NCR	Non-compliance Report
NGO	Non-governmental Organisations
PIU	Project Implementation Unit of Gölbaşı Municipality
PMU	Project Management Unit of ILBANK
PPE	Personal Protective Equipment
PV	Photovoltaic
SCP	Sustainable Cities Project
SEP	Stakeholder Engagement Plan
SEPA	Special Environmental Protection Area
SPP	Solar Power Plant
SuTP	Syrians under Temporary Protection
TEDAŞ	Turkish Electricity Distribution Corporation
USBS	National Water Information System

Abbr.	
VU	Vulnerable
WB	World Bank
WBG	World Bank Group
WHO	World Health Organization

1.EXECUTIVE SUMMARY

İller Bankası A.Ş in Türkiye (ILBANK) and the World Bank (WB) have collaboratively devised the Sustainable Cities Project (SCP), which constitute a series of initiatives (SCP I and II are presently underway).The WB's environmental and social safeguards policies require the preparation of an Environmental and Social Management Framework (ESMF), integrated with the Regulation on Environmental Impact Assessment (EIA Regulation) and WB's Operational Policy for Environmental Assessment (OP 4.01) for the SCP II AF. The ESMF forms the scope of the comprehensive environmental and social management approach that has been adopted for acknowledging the potential environmental and social impacts of the SCP 2 AF. This ESMP, which comprises the measures that will be taken to reduce or offset negative environmental and social impacts of the sub-project along with the monitoring actions and responsibilities has been prepared in accordance with the ESMF requirements.

All investments implemented through this Project will strictly adhere to both the Environmental Regulations of the Republic of Turkey and the Safeguard Policies of the World Bank. To ensure compliance, ILBANK will serve as the financial intermediary, overseeing the adherence to WB policies and procedures.

With financial support from the World Bank for renewable energy projects belong to municipalities, a solar power plant project located in Gölbaşı, a district within Türkiye's Ankara province, has been initiated by Ankara Municipality. This project aims to increase the share of renewable energy sources in the country's energy mix and reduce greenhouse gas emissions and reliance on fossil fuels and make a positive contribution to meeting Gölbaşı's electrical energy needs. Project Owner is Gölbaşı Municipality.

The installed capacity of the plant is 5,040 kWp which is subject to Annex II of the Environmental Impact Assessment (EIA) Regulation and it is expected to generate 8,114,185 kWh of electricity annually. The sub-project site is located on a Gölbaşı/Çerkezhöyük (Gökçeşhüyük) 125036 Block 21 Lot for which the land is owned by Gölbaşı Municipality. Title deed information for the sub-project is given in Annex-14. The solar panels used in the sub-project are of high quality and have a lifespan of 30 years. The sub-project was designed in compliance with international quality and safety standards.

The sub-project has been financed by the World Bank through a loan agreement with Gölbaşı Municipality. The loan has been provided on favorable terms, with a low-interest rate and a long repayment period. The loan has been used to finance the construction of the solar power plant, including the procurement of equipment and the construction of the power plant. The solar power plant project is expected to have a significant impact on the local economy and the environment. The sub-project will create job opportunities during the construction phase and the operation phase. The sub-project will also contribute to the development of the local infrastructure, including the construction of the substation and the transmission line. The sub-project will also have a positive impact on the environment by reducing greenhouse gas emissions. The solar power plant will generate clean energy, which will replace the energy generated from fossil fuels. The sub-project will also contribute to the country's efforts to address climate change. The solar power plant project in Ankara, Gölbaşı is a positive step towards the development of renewable energy sources in Türkiye.

The Environmental and Social Management Plan (ESMP) for this solar energy plant project plays an important role in the project's execution. The ESMP acts as a comprehensive guide

to monitoring, assessing, and mitigating adverse environmental and social impacts throughout the sub-project's lifecycle. This ensures that the project delivers a positive influence on the environment and the community. The ESMP guarantees compliance with local legal regulations and international standards. It ensures that the project operates in accordance with legal requirements.

This project's provision of clean energy aligns with Sustainable Development Goal 7 (SDG 7), which targets Clean Energy. Additionally, it positively contributes to Good Jobs and Economic Growth (SDG 8). By reducing reliance on fossil fuels and limiting greenhouse gas emissions, this solar energy plant project supports Turkey's efforts in combatting climate change. It aligns with Turkey's climate action plans and commitments.

The potential environmental and social risks arising from the sub-project will mostly occur during the construction phase. Operation of the Project will have a limited impact on the environment and the communities. Potential risks during construction and operation phase are expected to be;

- Dust, exhaust and noise emissions due to construction activities and vehicle movement
- Impact on soil due to construction activities such as excavations and backfilling
- Traffic impacts
- Waste generation
- Chemical/hazardous material storage
- Impacts on flora and fauna
- Workers' health and safety
- Community health and safety
- Impacts on cultural heritage

This ESMP has been prepared following a previous study for the Project where the environmental and social categorization of the Project was determined as Category High B based on the assessment that the Project area is within first-class agricultural lands and sensitive ecosystems. Further desktop and site assessments were conducted in order to determine the baseline conditions and mitigation measures for the management of potential impacts of the Project. According to the assessments no major risks are expected due to Project activities. Furthermore, following the flora and fauna site survey, a Biodiversity Management Plan (BMP) has been prepared for the sub-project. The subproject is located in Gölbaşı Special Environmental Protection Area (SEPA). Although the Project has the status of a National Protected Area, it does not harbor important biodiversity elements, particularly *Centaurea tchihatcheffi*, the characterizing species of the Gölbaşı SEPA. The sub-project will be realized in degraded agricultural areas in the region where the Central Anatolian climate is dominant in the steppe and agricultural areas in some parts within the borders of Gölbaşı District of Ankara province where the sub-project site is located. There are open areas and settlements around the sub-project area. In addition, observations made in the field have determined that there are alternative areas in terms of flora and fauna species within a radius of 1 km around the project site. It is envisaged that the impact of the planned activity will be considerably reduced and ecological restoration will be possible if the issues identified in the BMP are complied with.

In terms of cultural heritage, there is the Gökçe Hüyük mound within Gökçe Hüyük neighborhood. It is registered as a 1st Degree Archaeological Site by the decision of the Preservation Board in 1995 and 2007. Another important cultural asset is the Karazlı mound.

Karazlı mound is 2 km southwest of Gökçe      neighborhood. Karazlı mound was declared a 1st Degree Archaeological Site in 2001. On the other hand, the Project area is not located within any culturally protected area and does not fall within any tourism center or culture and tourism protection and development zone. Cultural Heritage Management Plan (CHMP) including a Chance Find Procedure has been prepared for the Project to prevent any negative impact on cultural heritage due to Project activities.

The sub-project is categorized as Category B where the potential impacts are site-specific and reversible in nature and can be managed by readily designed mitigatory measures.

With the implementation of the ESMP along with the BMP and CHMP it is aimed to avoid, reduce and mitigate the environmental and social impacts of the sub-project and to plan the participation of the sub-project stakeholders in the process.

There is a transmission line for the grid connection of the sub-project. Transmission line will be connected to the system from the high voltage (34.5 kV) level of the facility. It will be connected to the existing energy transmission line pole located approximately 100 meters away from the facility site with medium voltage cables. The energy transmission line will be constructed in accordance with the opinion of Başkent Elektrik Dağıtım A.Ş. and TEDAŞ specifications. However, the transmission line is excluded from the scope of this sub-project. The transmission line will be built and constructed by municipal equity.

Existing roads will be used for the access of the project area.

This study is prepared within the scope of 30th clause and Article 1 of the "Regulation on Unlicensed Electricity Generation in the Electricity Market" the electricity consumption of the relevant institutions netting with the electricity generation of the power plants to be made over the electricity unit price determined according to the subscription type of the institutions in the Electricity Tariff published by EMRA.

Planned Solar Power Plant has 5040.0 kWp DC Capacity, 4200.0 kWe AC Capacity. Equipped with 600 Wp MonoPerc Half-Cut modules with 30 tilt, 25 azimuth angle.

When the economic life of the plant expires at 30 years, it will be decommissioned, and the cost is written into the cash flow as decommissioning cost which is EU 32,000.00/MWp. So the overall power plant decommissioning cost will be EU 161,280.00.

Table 2-1: Planned SPP Technical Details

Technical Information	
FV Panel Type	Monocrystalline MONOPERC
FV Panel Power Output	600 Wp
FV Panel Count	8400
Annual Degradation	%1
Inverter Power Output	100 kW
Inverter Count	42
Total DC Power	5040,0 kWp
Total AC Power	4200,0 kWe
Estimated Annual Energy Production	8,114,185.00 kWh
Annual Energy Consumption	8,114,185.00 kWh
Production/Consumption	%100
Decommissioning Cost	EU 161,280.00



Figure 2-2 Project Area

3.LEGAL AND INSTUTIONAL FRAMEWORK

3.1. National Legislation

Table 3-1 presents the summary of national laws and regulations aiming to minimize the potential environmental and social impacts that may arise during the construction and operation activities of the sub-project.

Table 3-1. National Environmental and Social Legal and Policy Framework

National Environmental, Legal and Political Framework	
Environmental Impact Assessment	
Environmental Law	Law No: 2872; Date of Ratification: 1983
Regulation on Environmental Impact Assessment	Official Gazette No. 31907 dated 29 July, 2022
Environmental Permit and License Regulation	Official Gazette No. 29115 dated 10 September 2014
Water	
Groundwater Law	Law No: 167, Date of Ratification: 1960
Water Pollution Control Regulation	Official Gazette No. 25687 dated 31 December 2004
Regulation on the Monitoring of Surface and Groundwater	Official Gazette No. 28910 dated 29 December 2012
Regulation on Water Intended for Human Consumption	Official Gazette No. 25730 dated 17 January 2005

National Environmental, Legal and Political Framework	
Air	
Regulation on Air Quality Assessment and Management	Official Gazette No. 26898 dated 06 June 2008
Exhaust Gas Emission Control Regulation	Official Gazette No. 30004 dated 11 March 2017
Soil	
Soil Conservation and Land Use Law and Applicable Regulation	Official Gazette No. 25880 dated 03 July 2005
Regulation on Control of Soil Pollution and Point Source Contaminated Lands	Official Gazette No. 27605 dated 08 June 2010
Noise	
Regulation on the Ambient Noise Emission Caused by Equipment Used Outdoors	Official Gazette No. 26392 dated 30 December 2006
Regulation on Assessment and Management of Environmental Noise	Official Gazette No. 27601 dated 04 June 2010
Energy Efficiency	
Energy Efficiency Law	Official Gazette No. 5627 dated 2 May 2007
Waste	
Waste Management Regulation	Official Gazette No. 29314 dated 02 April 2015
Regulation on the Control of Waste Electrical and Electronic Equipment	Official Gazette No. 28300 dated 22 May 2012
Regulation on the Control of Excavation Soil, Construction and Demolition Wastes	Official Gazette No. 25406 dated 18 March 2004
Packaging Waste Control Regulation	Official Gazette No. 30283 dated 27 December 2017
Medical Waste Control Regulation	Official Gazette No. 29959 dated 25 January 2017
Regulation on the Control of Waste Batteries and Accumulators	Official Gazette No. 25569 dated 31 August 2004
Regulation on the Management of Waste Oils	Official Gazette No. 30985 dated 21 December 2019
Waste Vegetable Oil Control Regulation	Official Gazette No. 29378 dated 06 June 2015
Regulation on the Control of End-of-life Tires	Official Gazette No. 26357 dated 25 November 2006
Communiqué on the Transport of Wastes by Road	Official Gazette No. 29301 dated 20 March 2015
Zero Waste Regulation	Official Gazette No. 30829 dated 12 July 2019
Nature Conservation	
Forestry Law	Official Gazette No:6831 dated 05 June 1986
National Social Legal and Policy Framework	
Community Health and Safety	
Public Health Law	Law No: 1593, Date of Ratification: 1930
Health and Safety Signs Regulation	Official Gazette No. 28762 dated 11 September 2013
Highway Traffic Regulations	Official Gazette No 23053 dated 18 August 1997
Labor and Working Conditions	
Occupational Health and Safety Law	Law No: 6331, Date of Ratification: 2012
Regulation on Contractors and Sub-contractors,	Official Gazette No. 27010 dated 27 September 2008
Labor Law (No. 4857)	Official Gazette No. 25134 dated 10 June 2003
Law on Trade Unions and Collective Bargaining Agreements	Official Gazette No. 28460 dated 7 November 2012
First Aid Regulation	Official Gazette No. 29429 dated 29 July 2015
Regulation on Health and Safety Requirements for the Use of Work Equipment	Official Gazette No. 28628 dated 25 April 2013
Regulation on Procedures and Principles of Occupational Health and Safety Training of Employees	Official Gazette No. 28648 dated 15 May 2013

National Environmental, Legal and Political Framework	
Stakeholder Engagement	
Expropriation Law	Law No. 2942 Date of Ratification: 04 November 1983
Laws on Right to Information (No. 4982)	Official Gazette No. 29186 dated November 25, 2014

3.2. International Standards

WB governs projects and activities by the Safeguard Policies to assure that they are conducted in an environmentally, financially and socially sound manner. Safeguard Policies include Environmental and Social Assessments and other instruments that address adverse environmental and social effects of projects as well as their prevention, reduction and mitigation. These policies are expanded in the “World Bank Operations Manual” that provides further guidance on the Operational Policies (OP) and compilation.

The World Bank Group's (WBG) General Environmental, Health and Safety (EHS) Guidelines should be adopted for this project. For this reason, this project will meet the relevant requirements of EHS Guidelines. If national regulations differ from the levels and measures presented in EHS Guidelines, the more stringent one will apply.

Türkiye is a signatory to many international agreements, including the:

- Stockholm Convention on Organic Pollutants,
- Convention on Long-range Trans-Boundary Air Pollution (CRLTAP),
- Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade,
- Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal,
- Kyoto Protocol regarding to the United Nations Framework Convention on Climate Change,
- Montreal Protocol on Substances that Deplete the Ozone Layer,
- Barcelona Convention for the Protection of Marine Environment and the Coastal Region of the Mediterranean,
- Vienna Convention for the Protection of the Ozone Layer,
- Protocol on Environmental Protection to the Antarctic Treaty,
- ILO Conventions;
 - ILO Convention on Forced Labor,
 - ILO Convention on Freedom of Association and Protection of the Right to Organize,
 - ILO Convention on Right to Organize and Collective Bargaining,
 - ILO Convention on Equal Remuneration,
 - ILO Convention on Abolition of Forced Labor,
 - ILO Convention on Discrimination (Employment and Occupation),
 - ILO Convention on Minimum Age,
 - ILO Convention on Worst Forms of Child Labor,
- Paris Agreement.

4.E&S SCREENING

In accordance with the Environmental Impact Assessment Regulation (29.07.2022/31907) and World Bank Operational Policies (WB OP's), the proposed solar power plant project on Gölbaşı Municipality land will be evaluated for its environmental and social impacts.

The solar power plant falls under the category of solar power plants listed in Annex-2 of the Environmental Impact Assessment Regulation. According to the Regulation, a Project Identification Document should be prepared and submitted to the Ministry of Environment, Urbanisation and Climate Change for EIA decision for the projects which are included in Annex-2. The sub-project received "EIA not required" decision on 05.06.2020 (Appendix-1)

In order to comprehensively address any potential environmental and social risks and impacts associated with the sub-project, an Environmental and Social Management Plan will be developed, aligned with the World Bank Environmental and Social Safeguard Policies. The plan will be prepared if deemed necessary based on the findings of the environmental and social checklist for the sub-project.

WB governs projects and activities by the Safeguard Policies to assure that they are conducted in an environmentally, financially and socially sound manner. Safeguard Policies include Environmental and Social Assessments and other instruments that address adverse environmental and social effects of projects as well as their prevention, reduction and mitigation. These policies are expanded in the "World Bank Operations Manual" that provides further guidance on the Operational Policies (OP) and compilation. The following Operational Policies are triggered for this project and included within the framework of environmental and social assessment;

Environmental Assessment Policy (OP 4.01)

The purpose of this policy is;

- To ensure the projects proposed for Bank financing are environmentally and socially sound and sustainable,
- To inform decision-makers about the nature of environmental and social risks, and
- To increase transparency and involvement of decision-makers in the decision-making process.

For the purposes of the WB O.P. 4.01, projects are classified in categories A, B or C depending on the severity of their potential impacts on the environment:

Category A projects; projects with impacts which could potentially result in significant and diverse environmental and/or social impacts and issues in the future and which could not be easily identified at the time of classification.

Category B projects; projects with environmental and/or social impacts that are specific to the location of the facility and/or with impacts that could be easily identified and prevented.

Category C projects; projects resulting in minimum or no environmental and social issues.

FI projects; financial intermediation activities.

This Environmental and Social Management Plan has been prepared by the Project Owner (Gölbaşı Municipality) for the investments defined and outlined within the scope of the Project as required by the WB OPs.

The operational policies listed above were determined considering the scope of the project as well as the geographical, natural and demographic structure of the region. Environmental and social risks that may occur due to Project activities have been assessed. The assessments have been supported with site surveys and the sub-project category was proposed as Category B.

Natural Habitats (OP 4.04);

- If the potential impact of a subproject on natural habitats is significant or if the impact is on critical natural habitats, the top priority will be to tackle the problem by identifying a new location. If this is not possible, appropriate mitigation measures will be adopted for the relevant circumstances.
- The construction works under the project will not affect critical habitats as there is no critical habitat in its immediate vicinity. The project area is a natural habitat, construction works may affect natural habitats.

Physical Cultural Resources (OP 4.11);

- Buried properties (e.g. tombs or mounds) can be identified during project-related studies during land preparation.

Involuntary Resettlement (OP 4.12);

- Involuntary resettlement may cause severe long-term hardship, impoverishment, and environmental damage unless appropriate measures are carefully planned and carried out.
- For these reasons, the overall objectives of the Bank's policy on involuntary resettlement are the following:
 - Involuntary resettlement should be avoided where feasible, or minimized, exploring all viable alternative project designs.
 - Where it is not feasible to avoid resettlement, resettlement activities should be conceived and executed as sustainable development programs, providing sufficient investment resources to enable the persons displaced by the project to share in project benefits. Displaced persons should be meaningfully consulted and should have opportunities to participate in planning and implementing resettlement programs.

The sub-project has been evaluated according to the Involuntary Resettlement Policy and no land acquisition is required under the sub-project.

The World Bank Group's (WBG) General Environmental, Health and Safety (EHS) Guidelines should be adopted for this project. For this reason, this project will meet the relevant requirements of EHS Guidelines. If national regulations differ from the levels and measures presented in EHS Guidelines, the more stringent one will apply.

5. BASELINE

Project area of influence (Aol) is determined as 500 meters from the borders of the sub-project area. Aol includes hobby gardens, which are located at a distance of 25 meters to the north of the sub-project. Additionally, Atlı Gökçe Höyük Service Area is 480 meters away from the sub-project area. Sub-project's Aol and the above mentioned locations are given in the Figure 5-1 below.

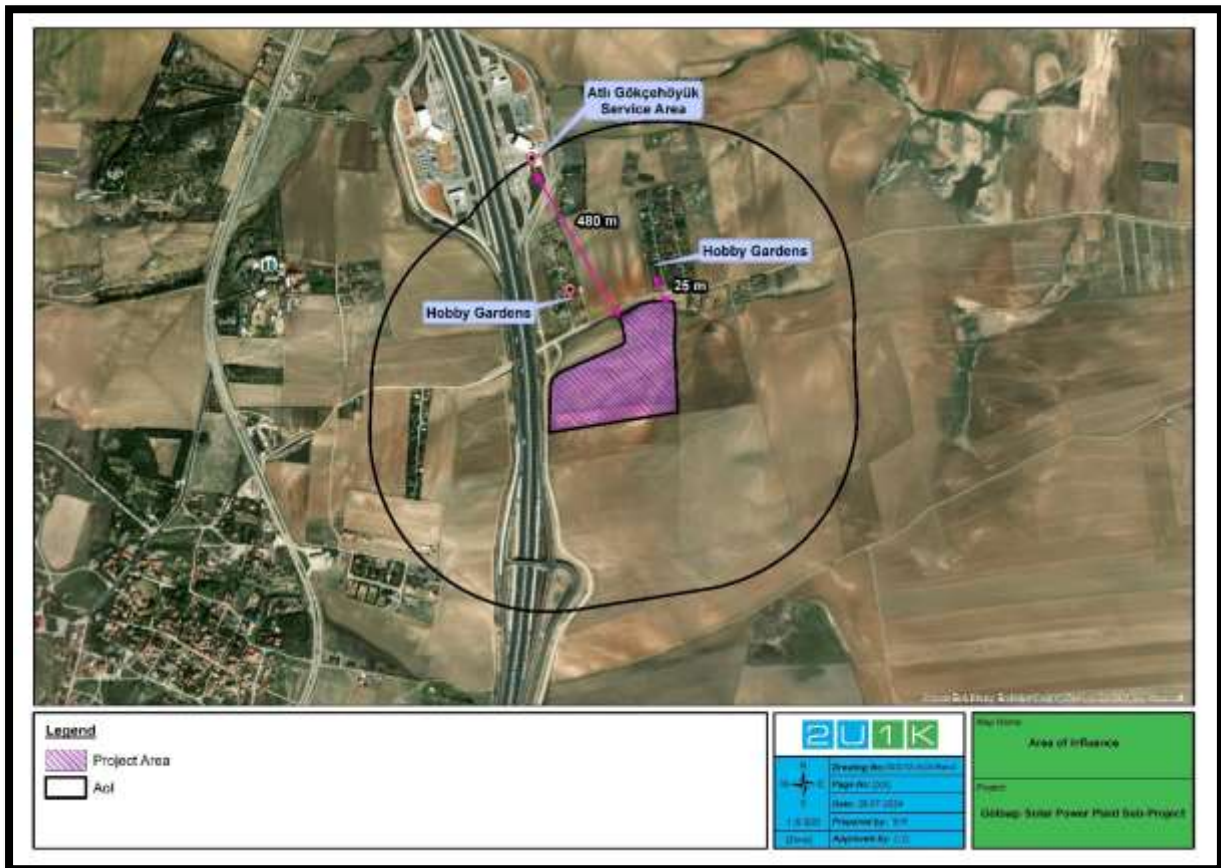


Figure 5-1 Area of Influence of the Sub-Project

5.1. Environmental Baseline

5.1.1. Location and Topography

Ankara province is located in the Central Anatolia region. The territory of Ankara province, located in the northern part of the Central Anatolian Plateau, is more like a plateau and provides a transition between mountainous-forested Northern Anatolia and the arid Konya Plain. Ankara, with a surface area of 24,520 square kilometers and its altitude above sea level is around 830 - 850 meters. The highest point of the province is Işık Mountain, with an altitude of 2,015 meters, and the largest plain is the Polatlı Plain with a surface area of 3,789 km².

Gölbaşı is a district of Ankara province. The district of Gölbaşı, located on the Central Anatolian Plateau and established 20 km away from the Ankara, is surrounded by the Bala to the east, Yenimahalle to the west, Haymana to the south, and Çankaya districts to the north. It covers an area of 1,650 km², and its elevation above sea level is 970 meters. The geographical coordinates of Gölbaşı are approximately 39.798288 North latitude, 32.805747

East longitude. Important road transportation networks passing through Gölbaşı are Ankara-Istanbul, Ankara-Konya-Adana, Ankara-Eskişehir, Ankara-Samsun state highways and Ankara Peripheral highway. A 15 km section of Ankara Environmental Highway passes through Gölbaşı SEPA. Gökçeşhüyük neighborhood and SPP Sub-project area are located in the Gölbaşı SEPA, and SPP sub-project area is approximately 1400 meters away from the Gökçeşhüyük center and 2000 meters away from the Mogan Lake Flood Trap Area. Geographical location of project area and the Gölbaşı SEPA are given in Figure 5-2 and Figure 5-3 respectively.

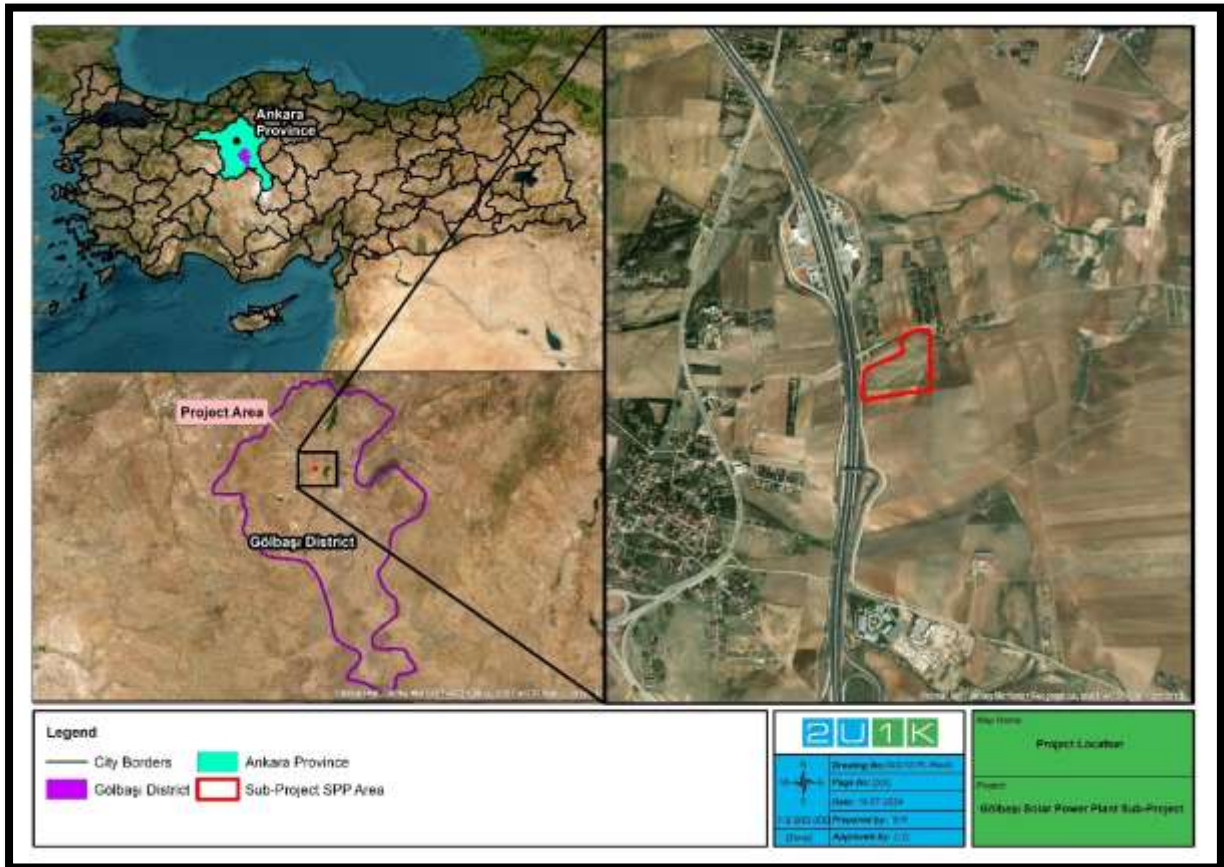


Figure 5-2 Geographical location of Ankara Province and Sub-Project Area

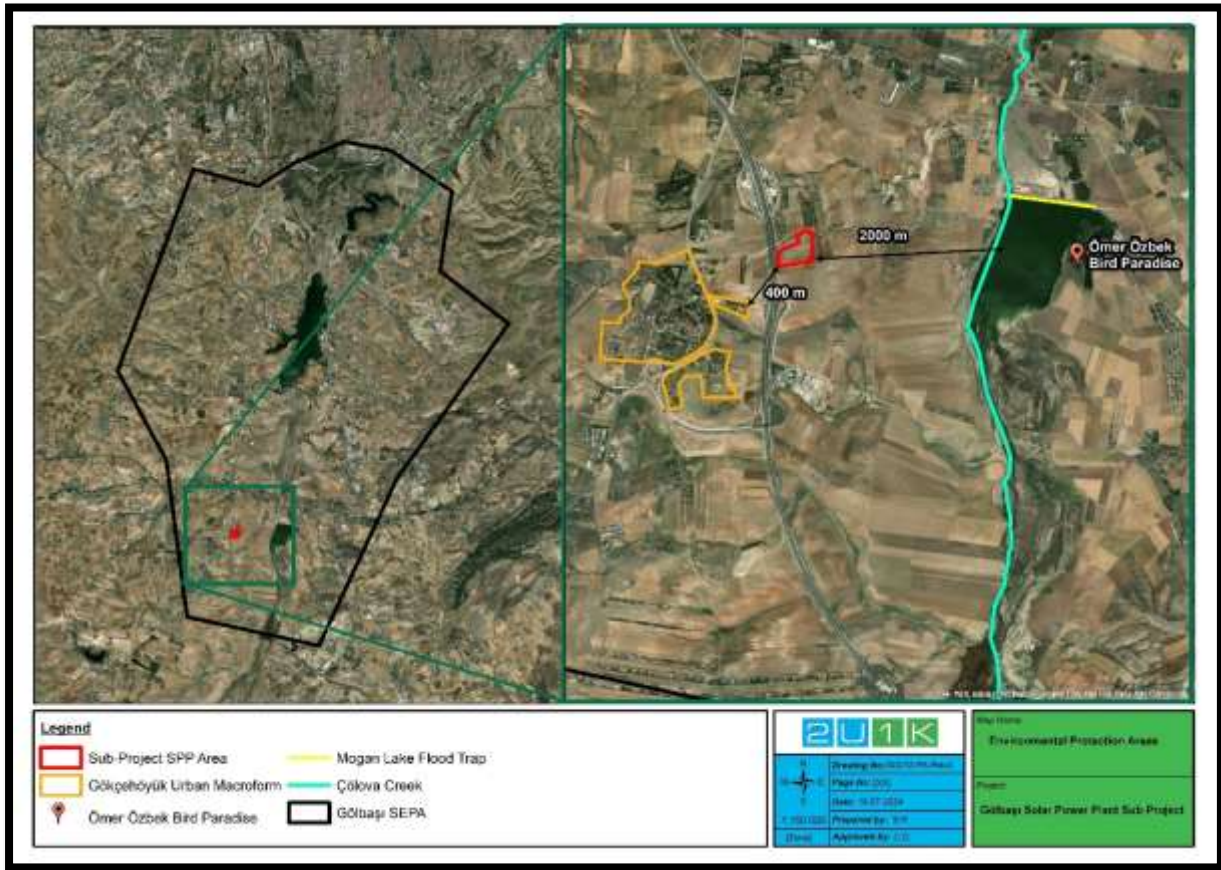


Figure 5-3 Location of SPP Sub-project Area in the Gölbaşı SEPA

5.1.2. Geography

Gölbaşı district is one of the 25 districts of Ankara. Gölbaşı district, located in the southern parts of Ankara province, is adjacent to Yenimahalle, Çankaya, Bala, Haymana and Polatlı districts. Gölbaşı is the lakes region of Ankara province. On October 22, 1990, according to the decision of the Council of Ministers numbered 90/1117 and based on Article 9 of the Environmental Law No. 2872, Gölbaşı was declared as a "Gölbaşı District SEPA". The sub-project area is in the Gökçeşhüyük (Çerkezhöyük) neighborhood which is one of the neighborhood out of 54 of Gölbaşı. Gökçeşhüyük is located in south of the district and it is in the border of Gölbaşı District SEPA. The surface area of the SEPA is 273.94 km². Gökçeşhüyük neighborhood elevation level is between 750-1000 meters, so the sub-project area is located in low level elevation and in flat area. The map showing the topography of the sub-project area and the region where Gökçeşhüyük neighborhood is located is given in Figure 5-4 below. Additionally, the map showing the topographic elevation of the sub-project area on a large scale is given in Figure 5-5.

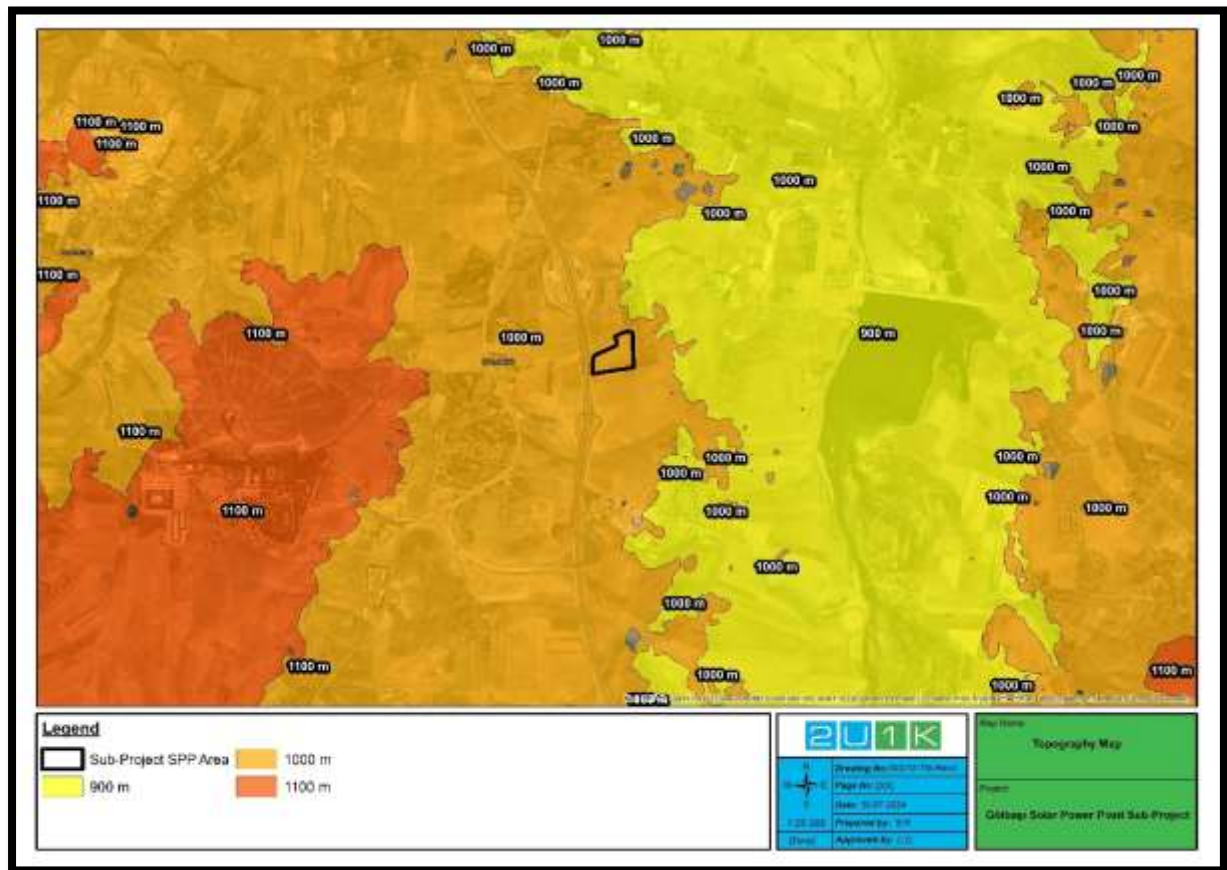


Figure 5-4 Topography Map of Gökçeşhük Neighborhood

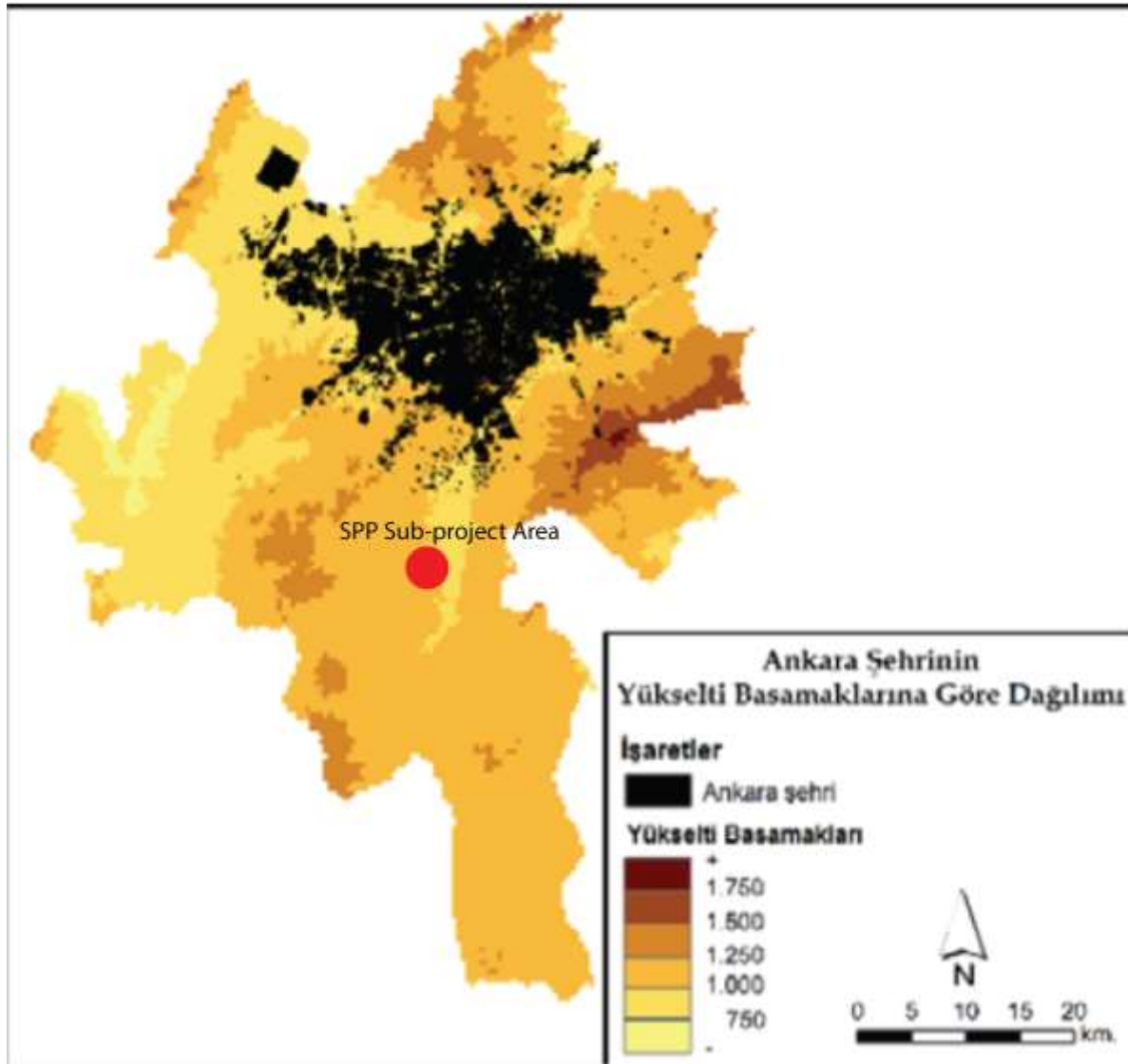


Figure 5-5 Topographic Elevation Map of Ankara Province and SPP Sub-project Area, (Rüya Bayar, 2020)

5.1.3. Climate

Ankara province and its surroundings in the Central Anatolia region experience a continental climate with cold and rainy winters. A steppe-semiarid climate is observed in the south, while the north exhibits the mild and rainy characteristics of the Black Sea Region. Winters are very cold, and summers are very hot. The annual average precipitation is around 393.2mm, and the annual average temperature is 11.9°C. The highest average temperatures are typically experienced in July-August, while the lowest average temperatures occur in December-January. The annual highest average temperature is 17.90°C, and the annual lowest average temperature is 6.3°C.

Gölbaşı and its surroundings have a continental climate with cold and rainy winters and hot and dry summers. The average annual precipitation is around 400 mm. The average annual

temperature is 11.7 C. The map showing the energy potential of the Gölbaşı and the sub-project area is given in Figure 5-6 below.

According to the Solar Energy Potential Atlas, Türkiye's average annual total sunshine duration is 2,737 hours, daily total is 7.5 hours, and annual total incoming solar energy is 1,527 kWh/m²/year. It is seen that Gölbaşı's average solar radiation throughout the year is in the range of 1500- 1600 KWh/m²/year. Global radiation values are over 6.00 KW/m²/day in May, June, July, and over 4.00 KWh/m²/day in a total of 6 months from April to the end of September. In Gölbaşı, the month with the longest sunshine duration (11.06 hours) is July, and the shortest sunshine duration (3.35 hours) is December. Generally, the duration of sunshine is above 7 hours in seven months (from April to September) throughout the year in most seasons. Since the district's sunshine duration is similar to Turkey average, it turns out that project area in Gölbaşı is an important investment area for solar energy. The graphic showing Gölbaşı district radiation values, sunshine hours, PV type-area-amount of energy that can be produced is given in Figure 5-8.

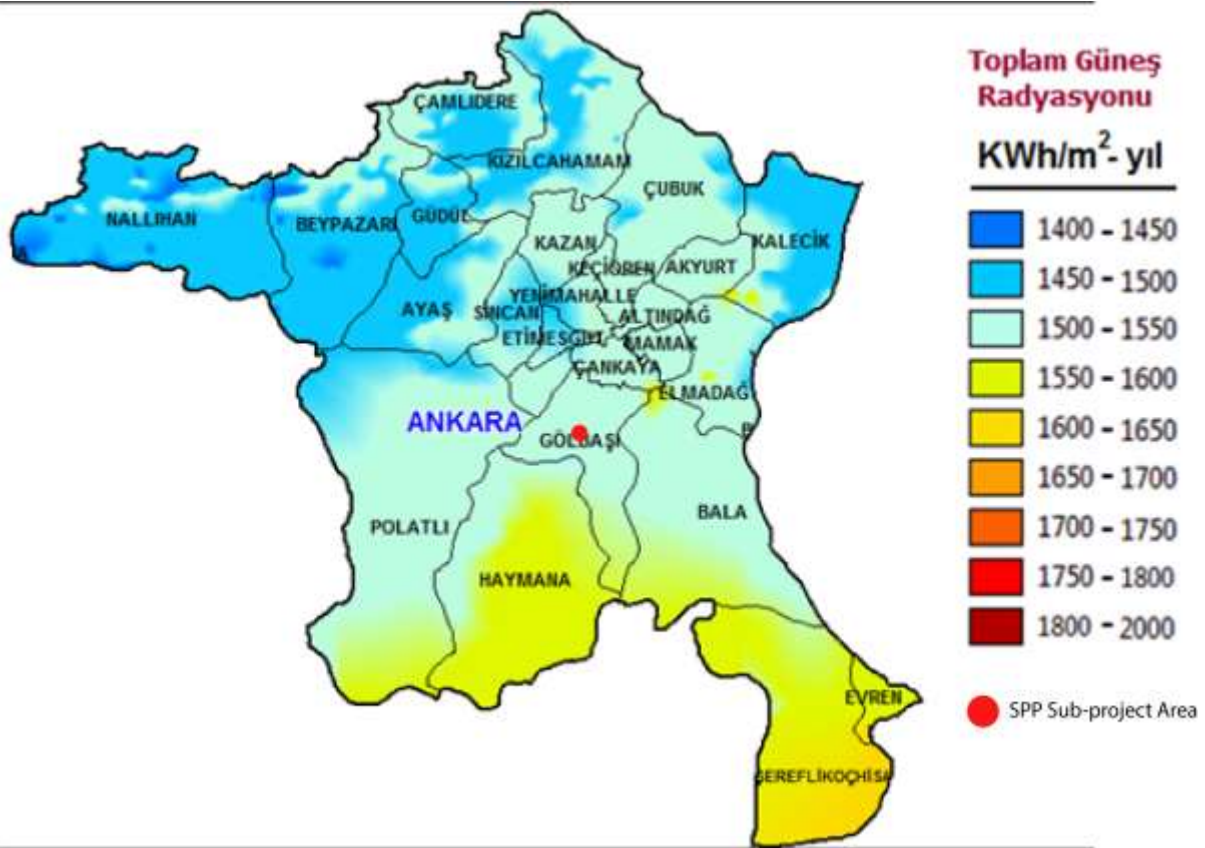


Figure 5-6 Ankara Province Solar Atlas and SPP Sub-Project Area

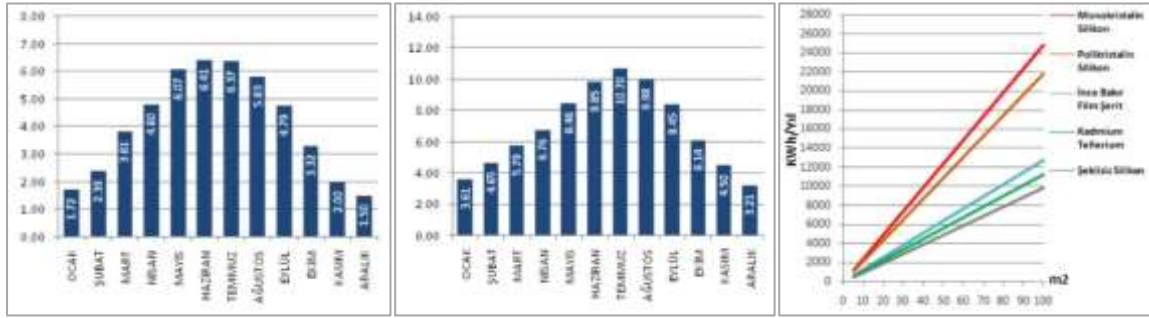


Figure 5-7 **a)** Gölbaşı District Radiation Values (KWh/m² day) **b)** Gölbaşı District sunshine Times (hours) **c)** Gölbaşı PV type-Area-Energy That Can Be Produced (KWh year)²

5.1.4. Flora and Fauna

The prevalent vegetation in the region consists mainly of herbaceous plants, yet there are different plant communities at various elevations and with varying humidity levels in different topographic areas. Forested areas are primarily found on steep plateaus facing Lake Eymir, in the Beynam Forests within the boundaries of Bala district, and in newly afforested areas. Gölbaşı district in Ankara is known for its rich variety of plants and endemic species. In the Gölbaşı SEPA, there are a total of 488 plant species, including 476 species, 6 subspecies, and 6 varieties. One of the symbolic values representing Gölbaşı is the "Sevgi Çiçeği" (*Centaurea Tchihatcheffii*), which is one of the 179 *Centaurea* species in Türkiye and is an endemic species growing only in the vicinity of Mogan Lake and Hacıhasan neighborhood in Gölbaşı.

SPP Sub-project area is located in the Gölbaşı SEPA, and the presence of areas with significant biological diversity such as Mogan and Eymir in the area and the surrounding reeds and swamps, wet meadows and steppe areas make the area an important habitat. In addition to being ideal sheltering and breeding areas for many animal species, especially water birds, the reeds and swamp areas within the region are also of great importance in terms of protecting the water quality and water regimes of the lakes. For this reason, they must be protected against any intervention that may harm the ecological relations in the area (MoEUCC, 2015). Gölbaşı is extremely important in terms of its rich bird diversity and wildlife. SPP Sub-project area is located west of the Çölova Creek and Ömer Özbek Bird Paradise, and reeds and swamp area.

As a result of the field and literature studies conducted in the sub-project area and its immediate surroundings on 29-30 June 2024, 89 species and subspecies taxa belonging to a total of 24 families were identified among the flora species.

To date, many observations and research have been carried out on the *Cyanus tchihatcheffii* (love flower) species, which is known to be widespread around the sub-project area. The most comprehensive of these was the "*Centaurea tchihatcheffii* Ankara-Gölbaşı Love Flower Project" prepared by Prof. Dr. Ayşe Boşgelmez and completed in 2005. Although it was determined in this study that the species was distributed in areas close to the planned project area, as a result of our observations and detailed studies in the sub-project area, it was determined that the species did not spread in the sub-project area due to habitat unsuitability. Because this species prefers more open, well-ventilated soils. Some "net gain" studies of this species, which is known to be distributed around the area, have been proposed in the BMP.

² Source: <https://gepa.enerji.gov.tr/>

As a result of the field and literature studies conducted in the sub-project area and its immediate surroundings, 80 species belonging to a total of 40 families were identified among the fauna species. Of these species, 2 belong to amphibians, 8 to reptiles, 26 to mammals and 44 to birds. Among the species, only *Testudo graeca* is in the VU category according to the IUCN Red List. Apart from this, there are no endangered species.

Distribution of vertebrate (Amphibia= Frogs, Reptiles= Reptiles, Birds and Mammalia= Mammals) species in the sub-project implementation area and its vicinity according to IUCN, Bern, CHC and CITES Criteria is given in Table 5-1 below.

Table 5-1 Species and Conservation Status according to IUCN, BERN, CITES and CHC

SPECIES		IUCN						Bern		CITES			CHC	
		LC	VU	NT	DD	EN	NE	Ann-II	Ann-III	Ann-I	Ann-II	Ann-III	Ann-I	Ann-II
Amphibia	2	2	-	-	-	-	-	-	2	-	-	-	-	-
Reptilia	8	7	1	-	-	-	-	5	5	-	1	-	-	-
Aves	44	43	-	1	-	-	-	19	18	-	7	-	10	4
Mammalia	26	23	2	1	-	-	-	6	6	-	-	2	2	3
Total	80	75	3	2	-	-	-	30	31	-	8	2	12	7

Detailed information on species and their conservation status is available in the BMP document.

5.1.5. Earthquake Risks

According to the Provincial Disaster Risk Reduction Plan (IRAP) for 2021 and the Mineral Research and Exploration (MTA) findings, Ankara is surrounded on four sides by the North Anatolian Fault Zone from the north, the Akpınar fault from the southeast, the Tuz Gölü Fault Zone from the south, the Kırıkkale-Erbaa fault from the east and the Eskişehir Fault Zone from the southwest. Ankara city center is 60 - 80 km away from these faults. Ankara has never been at the center of devastating earthquakes. The map showing earthquake hazard map of sub-project area and surroundings is given in Figure 5-9.

According to the Turkey Earthquake Hazard Map, Ankara Province is located around 0.0-0.2 in terms of seismicity. When the sub-project area is examined based on the "Turkey Earthquake Hazard Map" that came into effect with the Cabinet's decision dated 22.01.2018 and numbered 2018/11275, it is observed that the largest ground acceleration value is approximately around 0.149 PG (Figure 5-9) which indicates that the area is a 4th degree earthquake zone. So, it is observed that there is no serious earthquake risk in the sub-project area. The map showing faults in Gökçeşeyh and its region is given in Figure 5-8 below.

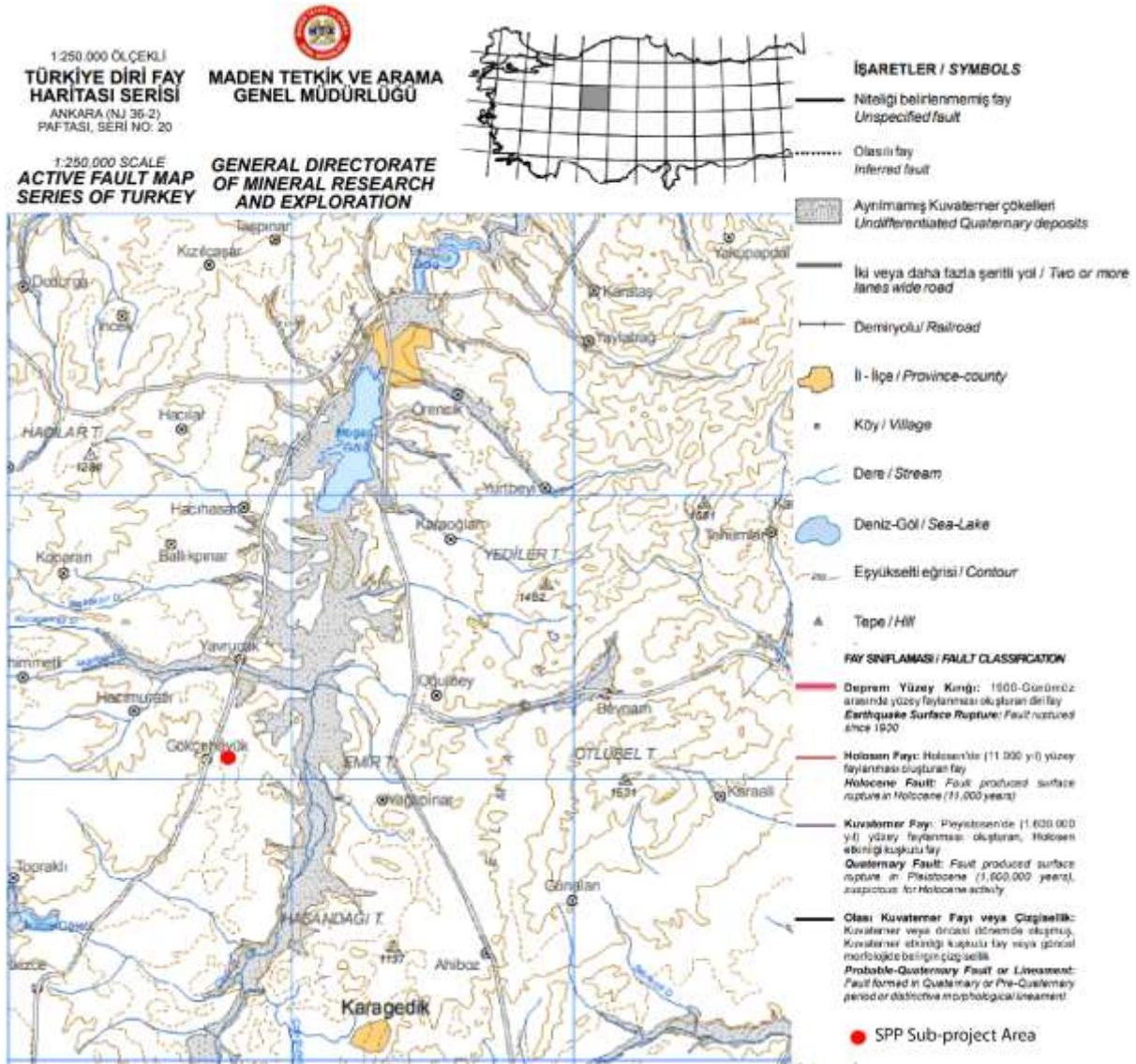
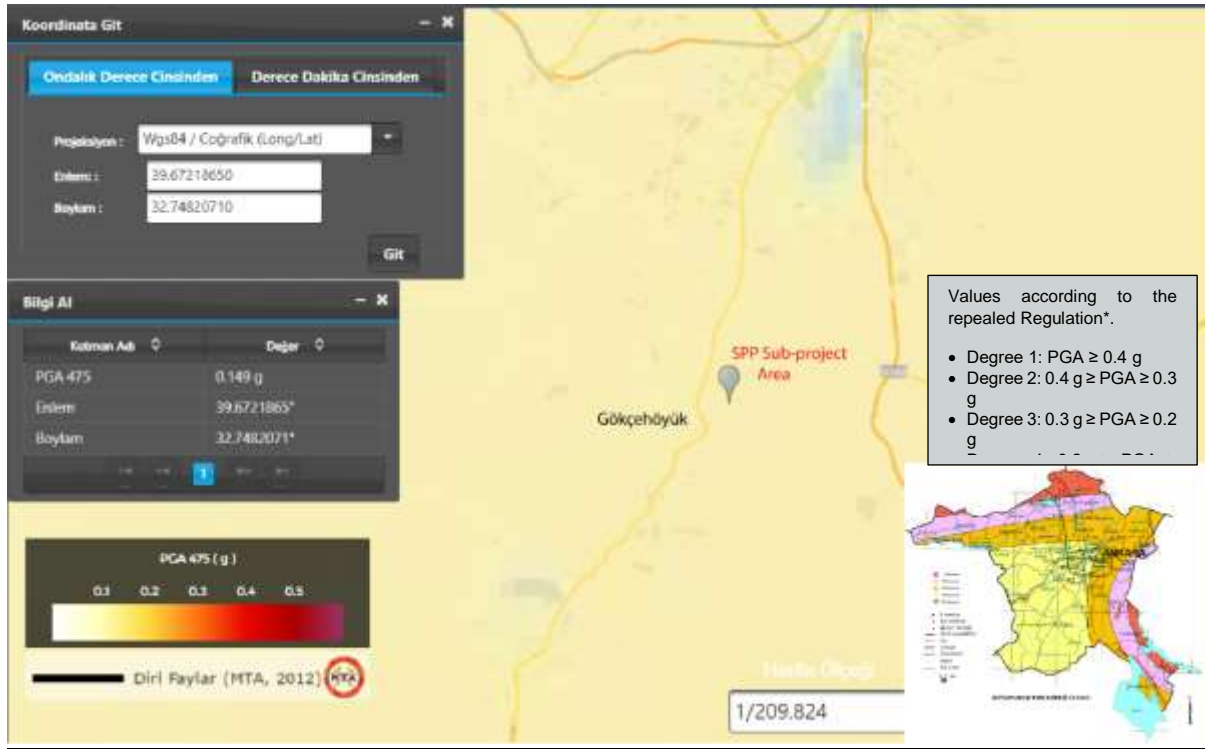


Figure 5-8: Faults in Gökçeşhük and its Region, General Directorate of Mineral Research and Exploration (MTA)



*Turkey Earthquake Zones Map, which came into force with the decision of the Council of Ministers dated 18.4.1996 and numbered 96/8109, was abolished on 01.01.2019. The New Turkey Earthquake Hazard Map and Building Earthquake Regulation was published in the Official Gazette No. 30364 on 18 March 2018 and entered into force on 01.01.2019.

Figure 5-9:Earthquake Hazard Map of Sub-Project Area and Surroundings, Türkiye Earthquake Hazard Maps Interactive Web Application, 2023, (<https://tdth.afad.gov.tr>)³

5.1.6. Hydrology and Flood Risks

A large part of the Kızılırmak river basin and its large tributaries such as Delice, Acıçay, Devres streams, a part of the Sakarya basin and its large tributaries such as Kirmir Stream, Ankara Stream, a part of the Western Black Sea basin, a part of the Konya closed basin and its large tributaries such as Büyük Melen, Küçük Melen, Gerede constitute the important rivers of Ankara province. The amount of precipitation falling in the region differs in the northern and southern parts. Ankara shows the precipitation regime characteristic of the Black Sea Region in the Kızılcahamam and Çubuk districts located in the north, and the climate characteristic of the Central Anatolia Region in the south. The average annual rainfall of the province is 389.1 mm. Many flood events have occurred in Ankara. It has been observed that the floods that have occurred in the center of Ankara in recent years have mostly occurred due to reasons such as incorrect infrastructure applications (backflow of the sewage system, etc.), surface flooding caused by dense construction (water flowing into the soil without resisting during heavy rains, etc.) (AFAD, 2021).

Gölbaşı district is located in Sakarya Basin. The surface system of the Mogan and Eymir lakes basin, located within the Gölbaşı SEPA, starts with the Çökek swamp from south to north and consists of Mogan Lake, Gölbaşı Plain (Reeds), Eymir Lake and the streams that feed them. The Mogan Lake basin is generally a flat area, occasionally moderately rugged, located at the lower end of a basin behind alluvial fans, forming a natural dam lake. The surface area is approximately 6 km². From the south of the lake, within a distance of 2 km, there is a transition

³ Hazard map showing the PGA value created for a 10% probability of exceedance in 50 years (475 years of recurrence)

zone with wetland characteristics, and it provides drainage to the Eymir Lake, which has an area of approximately 1.25 km² in the northeast, both underground and aboveground, with an average elevation difference of 5 meters. The areas where the streams feeding Mogan Lake reach the lake, as well as the area facilitating the connection between Mogan and Eymir, are characterized by low-gradient terrain and have developed into ecologically significant "Wetland" areas from hydrogeological, hydrological, climatic, and biological perspectives. The biggest flood that occurred in Gölbaşı district was due to heavy rains on 17.2.1969, 5.7 m³ of water came into the lake per second and the lake water level increased by approximately 4 m. This flood flooded the Gölbaşı subdistrict and caused property loss. After this flood, a regulator was built by DSI at the outlets of Mogan and Eymir lakes in order to regularly discharge the excess water of Mogan Lake to Eymir Lake and the excess water of Eymir Lake to İncesu valley (MoEUCC, 2015). The map showing Mogan and Eymir Lakes surfaces water system is given in Figure 5-10.

According to National Water Information System (USBS) prepared by the General Directorate of Water Management, the flood risk and danger in the SPP sub-project area and its surrounding examined. It is observed that there is river networking system around Gölbaşı district and Gökçeşhüyük neighborhood, but there is no flood risk observed according Figure 5-12 in SPP Sub-project area. The map showing flood risk in Gölbaşı District is given in Figure 5-11. Mogan Lake Flood Trap was built by State Hydraulic Works in 2015 in Yağlıpınar neighborhood, where the Çölova stream feeding Mogan Lake passes, approximately 2 km away to the east of the SPP Sub-project area. It has been observed that this flood channel, which was built to prevent floods in Gölbaşı, created a new lake in the area. The photograph taken from the Mogan Lake flood trap area is shown in Figure 5-13.

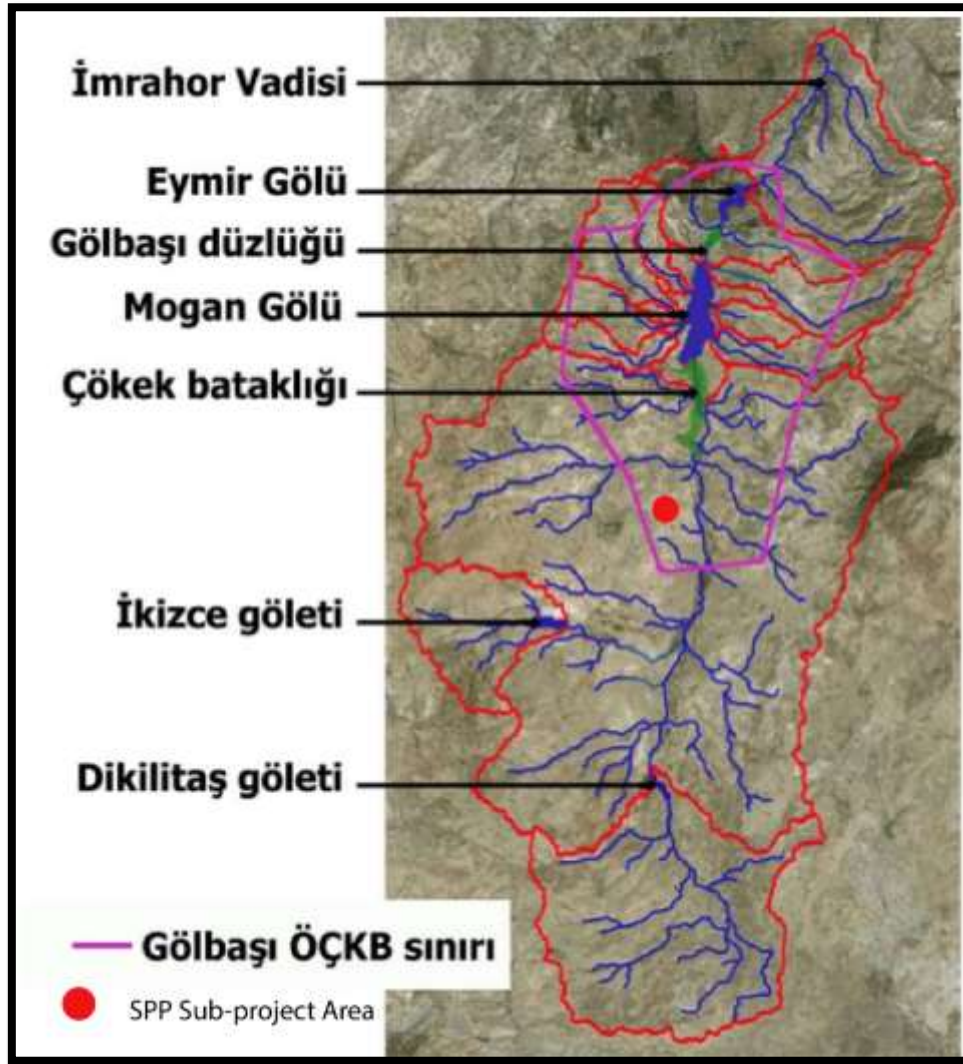


Figure 5-10: Mogan and Eymir Lakes Surfaces Water System (MoEUCC, 2015)

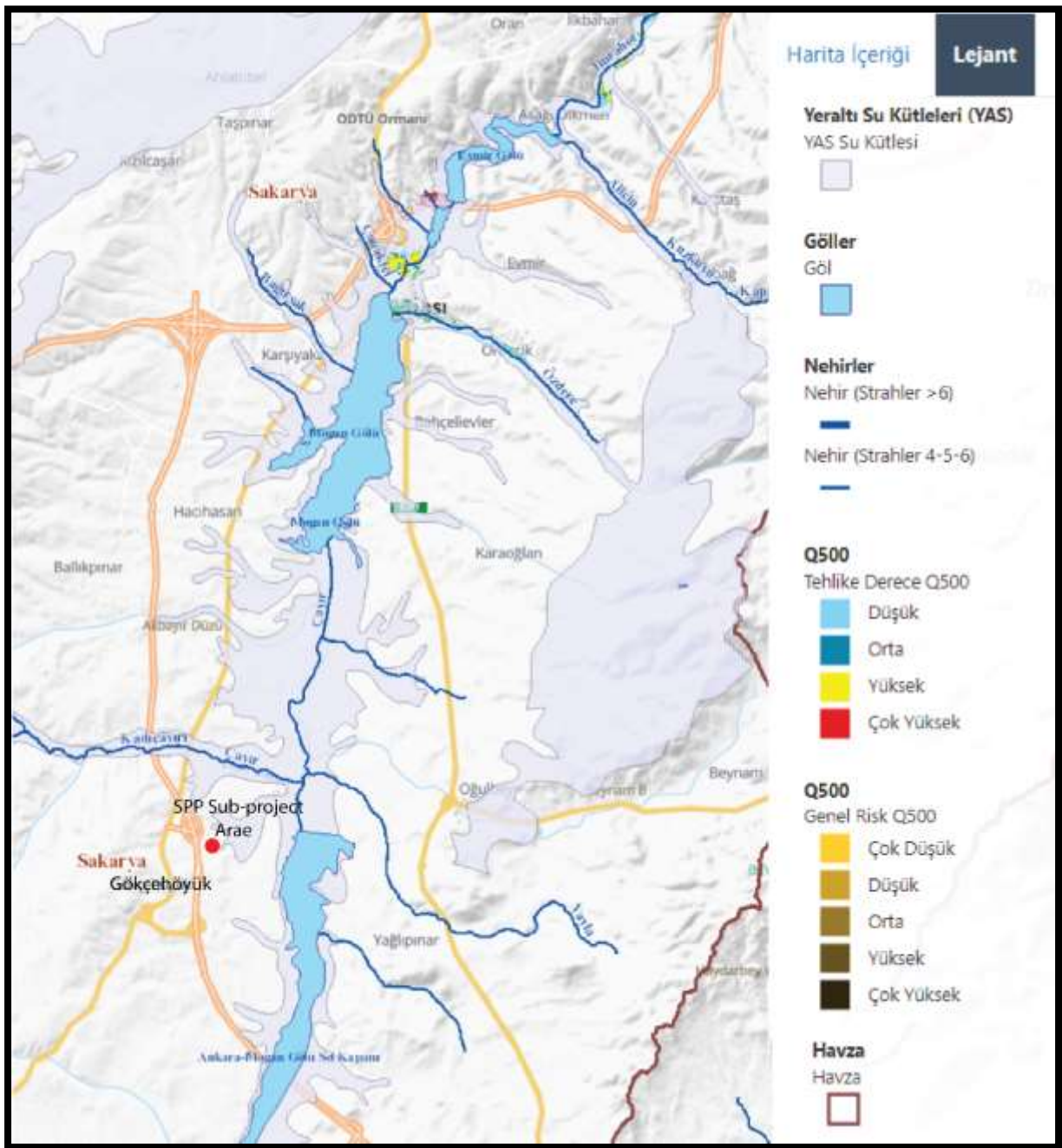


Figure 5-11: USBS Gölbaşı District and Surrounding Flood Risk Q500



Figure 5-13 Mogan Lake Flood Trap Area (Anadolu Ajansı, 2018)

5.1.7. Soil Capability and Agriculture

In the Gölbaşı SEPA plan report, the land capabilities of the area within the boundaries of the study area are mapped (Figure 5-14), and it is seen that all of the land, between Gökçeşh     settlement and the swamp area, where the SPP sub-project is located in, is 1st class agricultural land.

G  lbaşı Municipality requested an official decision from Ankara Governorship / Provincial Directorate of Environment and Urbanization on April 1, 2020, to prepare a zoning plan for the Solar Power Plant project. The Official Decision of Ankara Governorship / Provincial Directorate of Environment and Urbanization on April 16, 2020 is as follows:

“In the investigation on the subject:

- The parcel in question is located within the borders of the SEPA declared by the Council of Ministers Decision No. 90/117 dated 22.10.1999,”
- In the 1/50000 scale Environmental Plan Amendment of the G  lbaşı SEPA, which was approved by the Ministry's Approval dated 16.03.2020 and numbered 68425, and has not yet been approved, it is stated that block 125036 lot 21 of G  k  ş  h       District remains in the use of "Agricultural Area" and in its provisions;
 - 6.3.3.1 Agricultural Areas
 - 6.3.3.1.1 These are agricultural lands within the scope of the no. 5403 "Soil Conservation and Land Use Law" and the no. 3803 "Agricultural Reform Law on Land Arrangement in Irrigation Areas". It is essential to protect agricultural lands for agricultural production purposes.”

In this context, it has been reported that the development plan proposal to be prepared in line with the provisions of the mentioned plan should be prepared in accordance with the Ministry's Circular on the Procedures and Principles of Zoning Plan Proposals to be Made in Protected Areas dated 03.01.2017 and numbered 2017/01 (Annex 2).

Gölbaşı Municipality requested an official decision, regarding obtaining a non-agricultural use permit within the scope of Law No. 5403, from Ankara Governorship / Provincial Directorate of Agriculture and Forestry to prepare zoning plan for establishing an "Unlicensed Solar Energy Electricity Production Plant" which is built in block 21 lot number 125036, with a total surface area of 9,2164 hectares, in Gökçeşhüyük District. In the official opinion of Ankara Governorship / Provincial Directorate of Agriculture and Forestry dated 10 April 2020; It has been stated that in accordance with the 3rd paragraph of the 7th article of the Regulation on the Protection, Use and Planning of Agricultural Lands, which came into force after being published in the Official Gazette dated 09.12.20017 and numbered 30265, an Agricultural Survey Report was prepared as a result of the on-site examination of the parcel in question by the technical staff of the Provincial Directorate. In addition, it was stated that in order to give the final opinion of the Provincial Directorate, the documents to be obtained from other institutions, digital site plans and coordinates of the area should be prepared and the application should be made again. In short, Ankara Governorship / Provincial Directorate of Agriculture and Forestry did not give a clear official opinion to Gölbaşı Municipality, citing missing documents.

On April 6, 2020, Gölbaşı Municipality requested an official opinion from the Energy Market Regulatory Board / Expropriation Department on the master zoning plan and implementation zoning plan to be prepared for the establishment of an "Unlicensed Solar Power Plant", stating that it belongs to the municipality. In the response of the Energy Market Regulatory Board (EMRA) / Expropriation Department dated April 8, 2020, within the scope of the Energy Market Regulatory Board's Decision No. 8587 dated 16.05.2019, stated that solar power plants; there is no harm in establishing SPP other than roof application, provided that it does not cover absolute agricultural lands, special crop lands, planted agricultural lands, irrigated agricultural lands, irrigated-dry I, II, III, IV class agricultural lands and areas that disrupt the integrity of agricultural use in the surrounding lands.

Again, within the scope of EMRA's Decision dated 16.05.2019 and numbered 8587, stated that for the application for unlicensed electricity generation by solar power plants other than roof application, documents obtained from Ministry of Agriculture and Forestry or the relevant Ministry directorates stating that it does not include absolute agricultural lands, special crop lands, planted agricultural lands, irrigated agricultural lands, irrigated-dry I, II, III, IV class agricultural lands and areas that disrupt the integrity of agricultural use in the surrounding lands must be submitted.

However, all these official opinions were collected in 2020, but as of 2024, the master and implementation zoning plan of the SPP subproject has not yet been approved.

On the other hand, hobby gardens are scattered in the southern parts of Gölbaşı district and their number is increasing day by day. One of the main reasons why hobby gardens choose a location in this region is the high agricultural ability of the soil. The map showing Gölbaşı agricultural land capability is given in Figure 5-14 below.

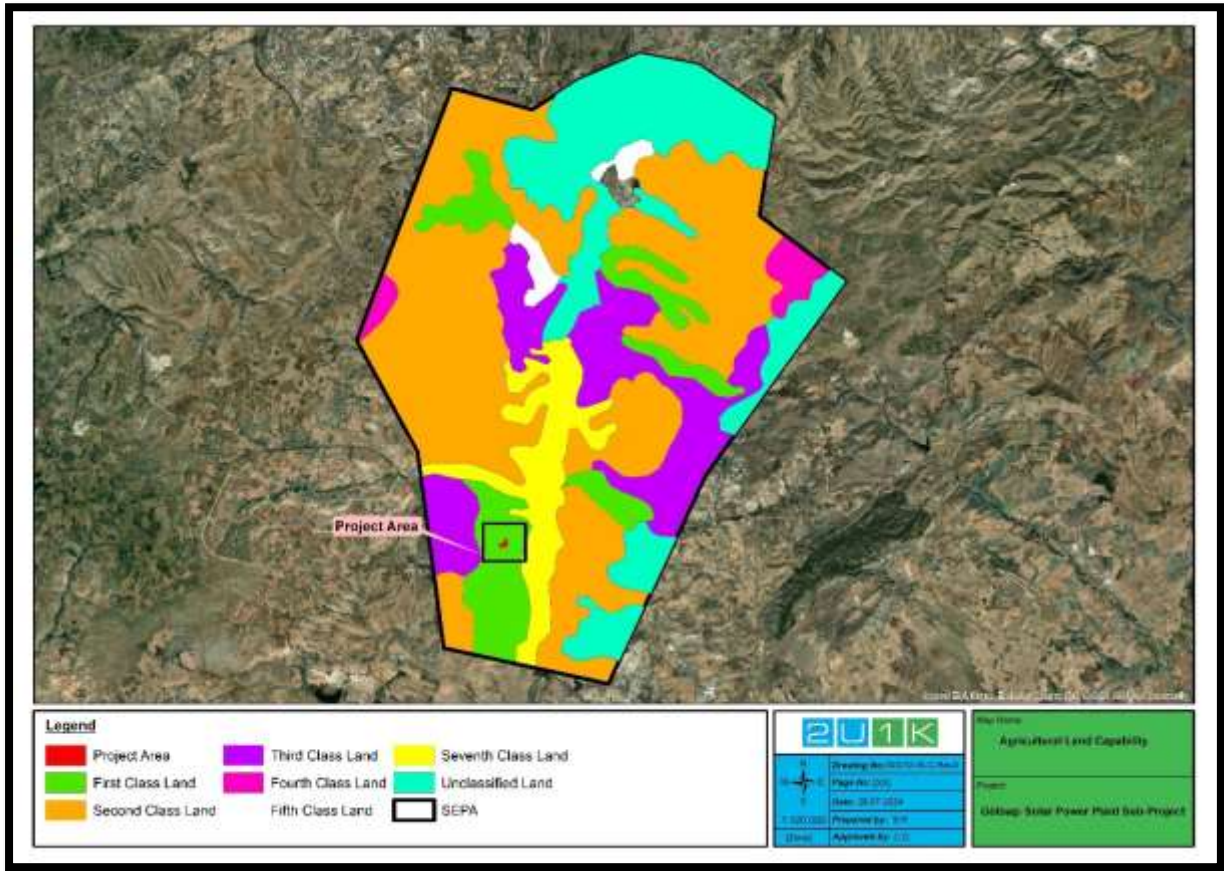


Figure 5-14: Gölbaşı Agricultural Land Capability (MoEUCC, 2015)

5.2. Project Land Use Rights

The sub-project area is located in Çerkezhöyük (Gökçeşhüyük) neighborhood, and the block/lot number is 125036/21. The lot size is 92.164,05 square meters. Information about planned SPP land is given in Table 5-2 below.

Table 5-2: Planned SPP Land Information

Land Information	
Type	Main Property
Province, District, County, Nhd.	Ankara, Gölbaşı, Çerkezhöyük (Gökçeşhüyük)
Block, Lot	125036/21
Total Area	92.164,05 m ²
Right to Property Use	Municipality - Ownership
EIA Status	"EIA Not Required" EIA Not Required decision is granted.

5.3. Socioeconomic Baseline

5.3.1. Demography

There are 54 neighborhoods within the border of Gölbaşı and 11 of them are located in the center of Gölbaşı. Gökçeşhük's population in 2023 is 940. Due to the Metropolitan Municipality Law, since 2013, with the transition of villages to neighborhood status, the rural population is not included in the Table 5-3. Before becoming a district, Gölbaşı was originally a neighborhood within the Örencik village and was attached to Çankaya district in 1936. The development and population growth of Gölbaşı accelerated in 1955 when the E-5 State Highway passed through the region. In 1965, the Gölbaşı Municipality was established. Mogan and Eymir lakes, being the most important recreational areas in Ankara, have become a center of attraction due to their natural values and, unfortunately, investment areas purchased by land speculators. This has played a crucial role in the population growth of Gölbaşı. Unplanned development of public investments and industrial activities in the district has altered the spatial structure of the city, resulting in the emergence of numerous disconnected and irregular residential and industrial areas. These spatial and economic changes have influenced the demographic structure of the district, especially after the declaration of Gölbaşı as a SEPA. A more rapid population increase has been observed in the post-2000 period. The disparity between urban and rural populations has also started to widen. It is seen that the gap between the rural population and the urban population has started to open since the 2000s and the urban population has increased. It has been observed that the rural population started to decrease as the economic structure changed in the district, where migration increased as industry began to develop. Information on Gölbaşı population by years and the population chart by year are given below is given in Table 5-3 and Figure 5-15 respectively.

Table 5-3: Gölbaşı Population by Years (TÜİK, 2023)

Year	Urban	Rural	Total	Year	Urban	Rural	Total
1985	18262	13409	31671	2014	118346		118346
1990	25123	18399	43522	2015	122288		122288
2000	35308	27294	62602	2016	123681		123681
2007	63232	10438	73670	2017	130363		130363
2008	82968	2531	85499	2018	134378		134378
2009	86749	1731	88480	2019	138944		138944
2010	93852	1257	95109	2020	140649		140649
2011	103627	1379	105006	2021	142961		142961
2012	109261	1382	110643	2022	150047		150047
2013	115924		115924				

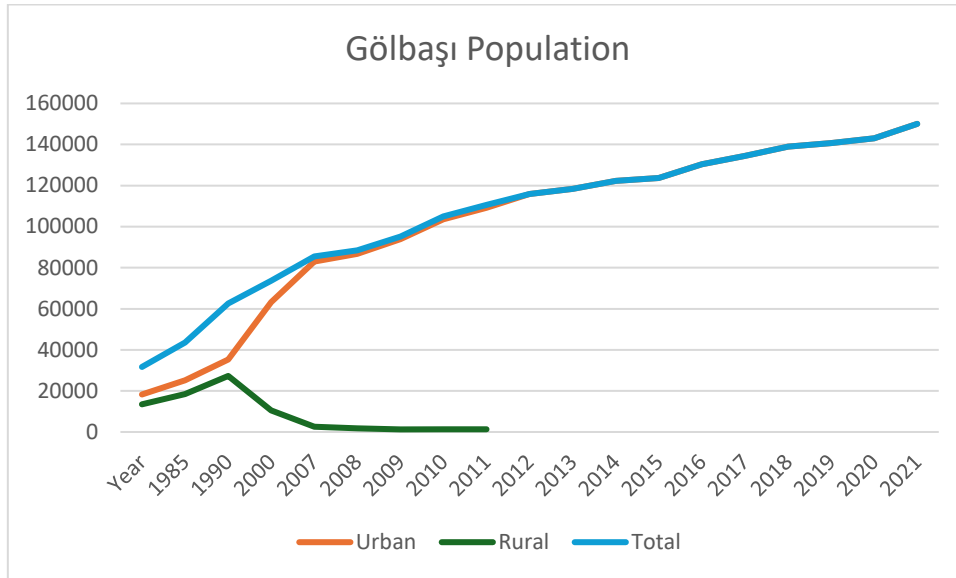


Figure 5-15 Gölbaşı District Population by Years (TÜİK, 2023)

5.3.2. Economic Sectors and Facilities

Throughout its historical development, Gölbaşı emerged as a center where nearby settlements benefited from central utilities like education, health, and trade, leading to migration. However, with the influence of the metropolitan area and increased transportation options, interaction with Ankara has grown. As a result, the city's form and economy have undergone changes, with the service sector, construction industry, and industrial sector starting to develop. Gölbaşı hosts numerous medium and large-scale industrial facilities, mostly located along the Konya Road and Haymana Road routes, with many of these establishments focused on food, electronics, and construction activities.

Agriculture is carried out on a total area of 29,515 hectares in Gölbaşı district. Grain cultivation is carried out in 26,583 ha (90%) of this area. Among the grains, wheat covers an area of 15,947 ha, barley 9,601 ha, rye 833 ha and oats 202 ha. A total of 1,410 ha of legume is cultivated in the area. Among the legumes, chickpeas are produced in an area of 1268 ha, beans (dry) in 61 ha and lentils (green) in 81 ha. Industrial sugar beet is grown in an area of 25 ha, and sunflower is grown in an area of 1,497 ha. 90% of the area is used for grain, 5% for legumes and 5% for oilseeds. Fishing and tourism activities are other prominent economic sectors of the district. Gökçeşhüyük neighborhood's economic activities depend on agriculture and husbandry sectors.

5.3.3. Cultural Heritage

There are archaeological sites and ruins within the borders of Gölbaşı that shed light on the history of the region. During excavations and research, findings from the first bronze, Hittite, Roman and Byzantine periods were found in the region. Ahlatlıbel and Taşpınar in the northwest, Gökçeşhüyük in the southwest, Karaoğlan in the southeast, Selametli town in the south, and Yurtbeyi village settlements in the east. Mounds and ruins from the early bronze age in Selametli Gökçeşhüyük and Bezirhane villages; Cemetery and column heads from the Roman period in Taşpınar village; Coins and ruins from the Byzantine period in Karaoğlan; Church ruins from the Early Christian period were found in Yurtbeyi and Karaoğlan villages. Cultural assets in Gölbaşı district and surroundings are given in Figure 5-16.

Gökçe Mound is within the borders of Gökçeşh     neighborhood. Traces of stone foundations can be seen at its foot. It is understood from the collected pottery pieces that it was inhabited in the Early Bronze Age. The mound is within the neighborhood. It is approximately 100 m in diameter, 12 m high and has an altitude of 1095 m. G     Mound is also known as        Mound. It was registered as a 1st Degree Archaeological Site by the decision of the Preservation Board in 1995 and 2007. Photograph from the location is given in Figure 5-18. Another important cultural asset is in the G         is Karazlı mound. Karazlı mound is 2 km southwest of G         neighborhood. G         neighborhood cultural assets are given in Figure 5-17. Karazlı mound was declared a 1st Degree Archaeological Site in 2001. The sub-project area is not located within any protected area and does not fall within any tourism center or culture and tourism protection and development zone. Furthermore, a Cultural Heritage Management Plan including a Chance Find Procedure has been prepared for the in order to avoid any negative impact on cultural heritage due to Project activities.

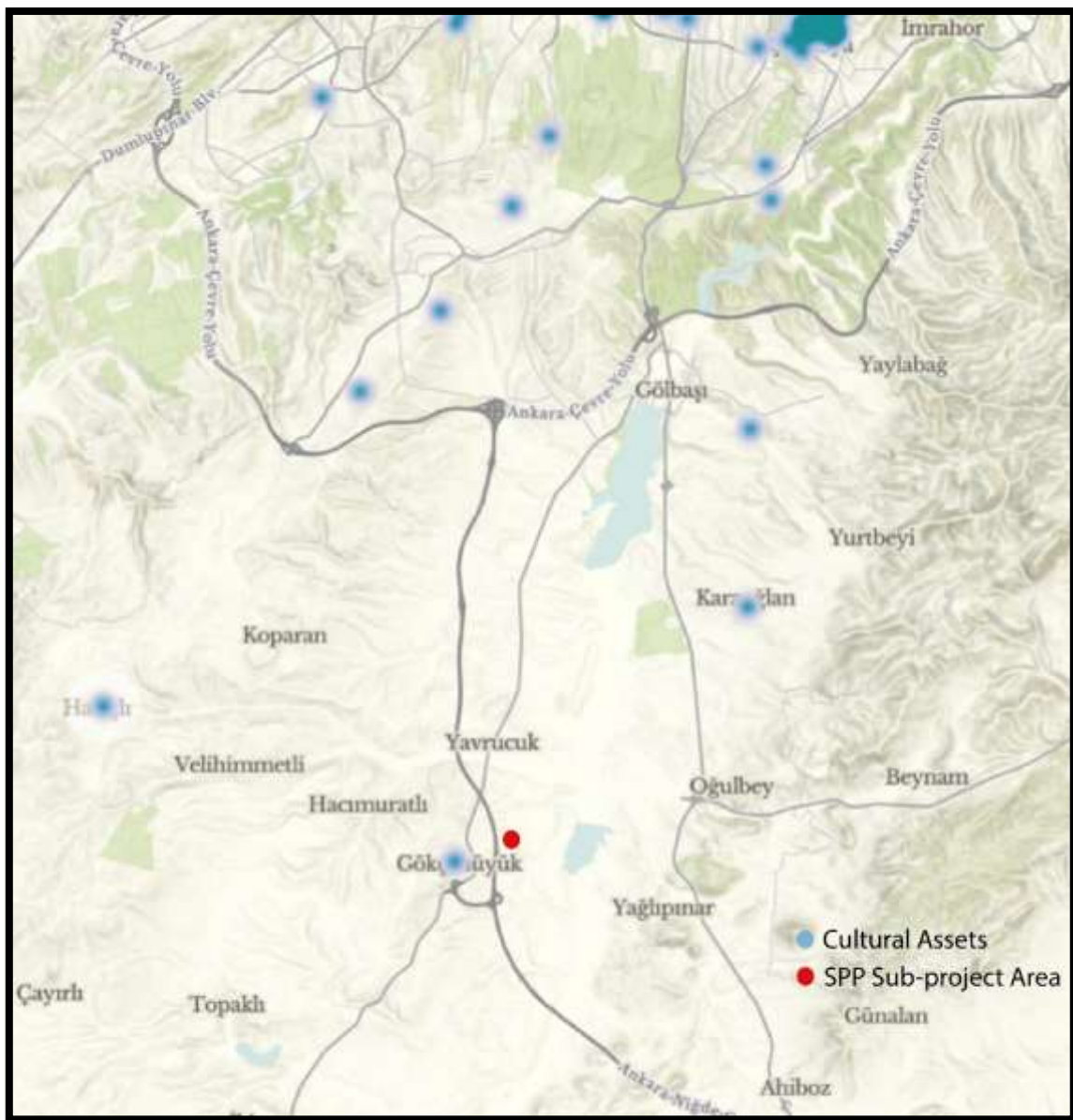


Figure 5-16 Cultural Assets in G       District and Surroundings (Culture Inventory, 2024)



Figure 5-17 Gökçe Höyük Neighborhood Cultural Assets



Figure 5-18 Gökçe Mound (Arkeo Denemeler, 2015)

6. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

The activities to be performed in the scope of the sub-project are presented in 6.1. Mitigation Plan for the Sub-Project and considered for the assessment of the best practice mitigation measures defined for the sub-project.

The activities to be carried out within the scope of the sub-project will be in compliance with the most up-to-date national legislation and WB standards. Where Turkish legislation differs from WB Policies, the stricter one will be applied for the implementation of the sub-project.

The monitoring, review and audit program detailed in 6.2. Monitoring Plan for the Sub-Project will be implemented during construction and operation phases to monitor the implementation of the environmental and social commitments of the ESMP requirements. Monitoring for the implementation of mitigation measures and commitments provided in the ESMP will be carried out continuously by the contractor and Project Owner in line with Monitoring Plan starting from the Construction Project. Project Owner will audit the sub-project every six (6) months during the construction period and once a year during the operation period. The Project Owner will be responsible for ensuring that the Contractor and its subcontractors comply with applicable national/international regulations and lenders' requirements.

6.1. Mitigation Plan for the Sub-Project

Table 6-1: Mitigation Plan for the Construction Phase

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
Disclosure	Insufficient information	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Before the start of construction works, the local communities and all relevant stakeholders will be informed of the works to be performed and the measures to be taken. The information on the start and finish dates of construction and working periods and the permits obtained from the provincial/district municipality will be shown by the operations owner in a signboard that is easily visible to all personnel at the construction site. 	Contractor Project Owner (Gölbaşı Municipality)	Low
Occupational Health and Safety (OHS)	Inadequate workers health and safety conditions	Adverse	High	Included in construction costs	<ul style="list-style-type: none"> The Project Implementation Unit to be formed by the Project owner and the contractor's project team will include staff(s) (at least one environmental and one social expert and one full time Class A Occupational Health and Safety (OHS) expert) who will take part in full-time and effectively control the implementation of the sub-project and, Project Owner will make sure that the measures provided below are taken by the contractor, and enforce necessary actions/sanctions in case lack of these measures on site. To manage unexpected events (fire, earthquake, etc.) which may occur during the construction activities under the sub-project, and which require urgent action, an Emergency Preparedness and Response Plan (EPRP) and an OHS Management Plan will be prepared and shared with all employees. The Project Owner will require all employees and contractors to adhere to local and international health and safety legislation and guidelines. Workers will be provided with all necessary personal protective equipment (PPE) (hard hats, safety harnesses, protective coveralls, glasses, gloves, armor-clad shoes, etc.). Appropriate hand and face washing facilities will be provided to the employees, and also shower facilities for dust generating works. Technical and OHS legal basic training, orientation and on the job training including the code of conduct indicating the possible risks regarding the work site and works to be carried will be given to workers by the contractor. Training will also be given on risks that may arise due to changes in workplace or job, change of work equipment, application of new technology. Information and training activities will be carried out not only for the employees, but also about the measures to be taken for community health and safety. All employees will be informed about working conditions, job definitions, responsibilities, relations with the local community and potential work risks and precautions. Workers will be required to comply with all OHS regulations and necessary inspections will be made additionally workers also should have professional competency certificates for the specific tasks. The contractor formally agrees that all work will be carried out in a safe and disciplined manner and is designed to minimize risks on neighboring residents and environment. All activities will be implemented in line with both the Law on Occupational Health and Safety and its relevant regulations, and also the WBG EHS Guidelines. Before the construction works start, a Risk Assessment study will be implemented for all works to be carried out and legal OHS training for the team should be completed. EPRP will be prepared and put into practice. Both the Risk assessment and EPRP will take into consider communicable disease risks. Emergency teams will be formed, and drills and training programs will be carried out in line with emergency scenarios. Employees will have a good command of emergency plans, and the grievance will be reported to the authorized teams and resolved, if they require urgent action. Appropriate signposting of the sites will be provided and then workers will be informed of key rules and regulations to follow. OHS trainings and toolbox talks will be provided to the employees including the code of conduct indicating the possible risks regarding the work site and works to be carried out. These will include regular trainings to workers on COVID-19 symptoms, how to be protected and what to do when symptoms appear. First aid kit will be kept available at the construction site, taking into account that first aid response may be required before the casualty is referred to the nearest healthcare provider. Both trainings and incidents (fatalities, near misses, lost time incidents, any significant events including spills, fire, outbreak of pandemic or communicable diseases, social unrest, etc.) will be recorded. In the event of any significant incident (e.g. environmental, social, labor or lost-time incidents) the Contractor shall immediately notify Gölbaşı municipality and the municipality shall inform ILBANK and WB within three business days. Then, within 30 days, a report on the root causes of the incident and the corrective actions to be taken will be presented to ILBANK and WB. 	Contractor Project Owner (Gölbaşı Municipality)	Low

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
					<ul style="list-style-type: none"> Guidance, directives and recommendations of Ministry of Health, Ministry of Family and Social Services, WHO and the WB shall be followed, and all relevant necessary measures shall be taken, both for occupational health and safety of employees and for workplaces, in case of an outbreak of any other pandemic/communicable disease including COVID-19. Areas where excavation work is to be carried out will not be accessible other than the authorized personnel. The loading and unloading activities shall be carried out together with the persons to oversee the personnel to carry out the activity. Daily work permit system will be implemented for all excavation works. Public access to construction areas shall be restricted by appropriate means. If a trench needed to be left open for night, the sufficient illumination of the area shall be ensured by the Contractor and necessary signs shall be placed, and the area shall be enclosed with physical robust barriers without leaving any space between them. If construction activities require working at height, working in confined space etc. specific procedures such as Confined Space Entry Procedure, Working at Height Procedure, etc. will be prepared in accordance with applicable national requirements and internationally accepted standards. Adequate and appropriate training in confined space hazard control, atmospheric testing, use of required PPE as well as the serviceability and integrity of PPE shall be verified before workers are required to enter a permitting confined space. In addition, adequate and appropriate rescue and/or rescue plans and equipment shall be in place before the worker enters the confined space. In the event of an accident, coordination will be established with the emergency response teams to ensure that the most accurate first aid is given. The Emergency Preparedness and Response Plan will be revised in accordance with the operational period and necessary training will be given to all personnel. Work permit system will be applied for specific works such as work at height, and safeguarding measures (guardrails, fall arrest) will be ensured. Unauthorized access to excavation areas will be prohibited. Loading and unloading activities will be carried out together with the persons who will supervise the personnel who will carry out the activity. Equipment that meets international standards in terms of performance and safety will be used. All equipment used during the construction phase will be kept in good working condition. In accordance with the regulation, the contractor will designate a full-time OHS responsible person with the requisite certification and experience, along with an workplace physician and a nurse in accordance with the relevant regulation, to monitor field practices. In case accident/incident, the contractor will inform the Project Owner within 24 hours, and the Project Owner will inform ILBANK, and ILBANK will inform the WB within three working days. A report on the root causes of the incident and the corrective actions to be taken will be submitted to ILBANK and the WB within 30 days. 		
Employment / Economy	Contribution to economy Child labour, forced labour and unregistered employment	Positive Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Care will be taken to contributing to the local economy through the use of local materials and to procuring various goods and services from local resources. Priority should be given to the local labor where possible and practical. Efforts will be exercised to allocate employment opportunities to the local parties and the surrounding neighbourhoods. The work permits of the employees will be controlled within the scope of the sub-project, prohibiting child labor, forced labor, and child labor under the age of 18. Discrimination in the workplace will be eliminated with trainings that will be given to the workers. Necessary measures will be taken by contractor to make sure that workers coming from outside the city will be given a training program on dialogue and communication with local communities, and that there are no social or cultural issues between host communities and external workers. It is the Project Owner's responsibility to ensure that the contractor complies with the determined criteria. 	Contractor Project Owner (Gölbaşı Municipality)	Low
Social Life	Potential Community Disturbance	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> The Contractor will provide training to the site personnel on environmental and social issues. It is the Project owner's responsibility to ensure that the contractor complies with the determined criteria. The operations to be carried out during construction works will be performed not to restrict / hinder the social and economic life of local people. To avoid any impact on the safety and daily life of communities, safety and information signs will be placed on site before the work. The public, and nearby institutions and organizations, and hospitals and schools will be informed at least two days before starting repair / maintenance works that may cause disturbance temporarily. The Project Owner will ensure that contractors establish the code of conduct and will check that workers will be given training especially on communication with local people public before 	Contractor Project Owner (Gölbaşı Municipality)	Low

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
					starting work, so that local people of foreign nationality will not be adversely affected by external workers.		
Labor Conditions	Improper Working Conditions, Child labor, forced labor and unregistered employment	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Workers will be allowed to have access to the Grievance Mechanism and will be required to be aware about this Mechanism. All workers will be given training on discrimination and codes of conduct. The trainings given to the employees will be explanatory about the concepts of sexual harassment and abuse, gender-based violence, abuse and intervention with harassment. At the same time, through the trainings, it will be ensured that workers learn the Grievance Mechanism of the sub-project (explained in detail in the Project's SEP document) and the steps to be followed in exercising their legal rights. Access to the Grievance Mechanism will be easy and effective. The grievance mechanism officer designated for the sub-project will be announced to all employees during the trainings to be given before starting work. There will be brochures and posters containing the grievance mechanism and the contact information of the authorized person in places such as the cafeteria, canteen and service areas used by the employees. Minimum legal labor standards will be met (child/forced labor, anti-discrimination, working hours, minimum wages) as per International Labor Organization (ILO) regulations. At the same time, the Operational Policies of the World Bank and the national legislation will be complied with in terms of the working conditions. Workers will be provided hygienic and adequate facilities. Workers will be allowed to have access to primary healthcare on site, enabling the provision of prescriptions. All workers including security personnel will receive training on risks such as Gender-Based Violence (GBV), Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH). Discrimination based on language, race, gender, political thought, philosophical belief and religion will be avoided in business relations. 	Contractor Project Owner (Gölbaşı Municipality)	Low
Community Health and Safety	Community health and safety risks	Adverse	High	Included in construction costs	<ul style="list-style-type: none"> To minimize the impact of the traffic activities that are expected to intensify during the construction phase, the working hours will be adjusted according to the peak hours of transportation. Special crossings will be created by taking additional measures for the elderly, pregnant women, people with small children and the disabled. The sub-project area will be fenced to avoid physical hazards to the communities associated with the sub-project. Contractors will take necessary health and safety measures, such as using appropriate warning signs and signboards, arranging time schedule of noisy works (mostly after 9:00 AM before 6 PM), making the regular maintenance of the machinery, replacement or repair of part which cause noise and performing watering in dry seasons, under the management of the Project Owner during site preparation and construction activities so that the public is informed of the construction plan and locations in a timely manner and the construction sites are determined. Care will be taken to ensure that warning signs are visible and illuminated at night and in bad weather conditions. The adequate number of appropriate firefighting equipment will be kept available at construction sites at all times. An EPRP will be prepared and implemented in order to be able to take and manage measures to protect public health and safety. Project employees, local people and response teams will be informed about this plan. Local people will be informed about possible dangers and precautions to be taken with brochures that will be placed on signs and notice boards to be hung in various areas in the neighborhood. Detailed information on the use of the Grievance Mechanism and contact information on the grievance mechanism officer will be made available to the public. (via the project website, information brochures left at the Mukhtars offices, posters and hand brochures in places such as schools, health centers, hospitals, mosques, which are the common areas used by the community intensively). A specific Code of Conduct for the guidance and counselling of the Security Personnel will be enforced which includes a set of rules on behavioural and cultural norms. Damages that may occur on the road surfaces due to traffic caused by heavy construction machinery during construction works on existing roads will be repaired by the contractor. In case of any damage to infrastructure elements on private lands due to construction activities, mitigation measures will be taken by the contractor. 	Contractor Project Owner (Gölbaşı Municipality)	Low
Vulnerable Groups	Inadequate / weak inclusion of vulnerable groups in Project processes and	Adverse	Medium	Included in construction costs	<ul style="list-style-type: none"> During the Project consultation, information and complaint mechanism introduction processes, communication strategies, communication tools and activities will be developed to ensure the meaningful participation of vulnerable groups and women in the Project process. These improvements and measures will be implemented to ensure that the opinions, suggestions, and complaints of vulnerable groups are conveyed to the Project smoothly and in a timely manner. 	Contractor Project Owner (Gölbaşı Municipality)	Low

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
	stakeholder consultations						
Land Use	Damages to adjacent lands and structures	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Any unintended damages caused to adjacent land and structures during construction will be compensated and repaired by Project Owner/Contractor. If grievances are received regarding unauthorized use of privately-owned lands, damage to neighboring lands, etc. through the Grievance Mechanism to be established, assessments / investigations will be performed on a case-by-case basis, and corrective actions will be planned and implemented, where necessary. Construction materials will be stored in closed and protected areas. If additional space is required, the contractor will fulfill temporary rental formalities or obtain relevant permits. 	Contractor Project Owner (Gölbaşı Municipality)	Low
Stakeholder Engagement	Insufficient stakeholder engagement activities and public consultation.	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> An adequate timing will be planned for interaction / communication with communities and for engagement. Regular consultations will be carried out with the authorities and communities regarding the project management. Additional public consultation meetings can be organized if requested by stakeholders or in case of major changes in the subproject. 	Contractor Project Owner (Gölbaşı Municipality)	Low
Grievance Mechanism	Inefficient grievance mechanism	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> An efficient Grievance Mechanism will be initiated to allow potentially affected individuals to voice their concerns on the sub-project. 	Contractor Project Owner (Gölbaşı Municipality)	Low
Documentation	Missing documentation	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> All activities, information meetings, opinions/suggestions, grievances, etc. provided during the construction period will be documented continuously 	Contractor Project Owner (Gölbaşı Municipality)	Low
Sustainable Development Goals⁴	Failure to set sustainable goals	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Throughout the life of the sub-project, workers will be recruited from the region as much as possible. Throughout the life of the sub-project, priority will be given to working with local suppliers and procuring services from the local employees in the service industry, as much as possible (fuel supply, vehicle maintenance/food, beverage and spare parts supply, etc.). 	Contractor Project Owner (Gölbaşı Municipality)	Low
Traffic and Pedestrian Safety	Direct and indirect threats posed by construction activities against traffic and pedestrians	Adverse	High	Included in construction costs	<ul style="list-style-type: none"> Actions will be taken to ensure that any vehicles operating during the construction period obey the set speed limit (30 km/hr). Traffic and warning signs will be placed around and near the sub-project area. The sub-project area will be made visible. Local people will be informed about potential hazards and risks through brochures and posters left in common areas frequently used by local people such as headman's offices, hospital, health center, mosque, coffee house and marketplace. The activities affecting the local traffic will be planned considering the rush hours of the traffic as much as possible. All drivers involved in the sub-project will be informed about road safety, speed limits, and traffic rules to be followed during the sub-project, and requirements to be observed. The weight of all vehicles will not exceed the legal limits according to the Highway Traffic Regulation. In case of hazardous chemical or waste storage on site, the transfer of these wastes will be performed out by licensed carriers to prevent any threat to community health. The routes developed in agreement with the competent authorities will be used for special cargos. The designated routes will be programmed to prevent traffic congestion on the roads and will be published in advance to prevent possible disturbance. The arrangements in traffic will be discussed with the Municipality and planned jointly. To prevent unauthorized access to the construction site, the construction site will be surrounded by fence/curtain/protection tape, and uncontrolled entrances will be prevented. 	Contractor Project Owner (Gölbaşı Municipality)	
Air Quality	Air pollution from Construction Works	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Dust from outdoor sources will be minimized by employing control measures such as covering the piles and increasing the moisture content. Dust suppression techniques such as the application of water or non-toxic chemicals will be used to minimize dust from vehicle movements. Truck loading and unloading operations will be carried out with due care, and materials will be prevented from scattering around. Modern equipment and vehicles that can meet the applicable emission standards will be selected for construction works. All vehicles will have exhaust emission permits and all vehicles will be regularly maintained. Exhaust systems and emission levels of machinery and vehicles will be checked by the contractor. Project Grievance Mechanism will be implemented. 	Contractor Project Owner (Gölbaşı Municipality)	Low

⁴ As mentioned in the United Nations Development Cooperation Strategy Türkiye 2016-2020 Government of the Republic of Türkiye and The United Nations System in Türkiye, *Sustainable, Inclusive Growth and Development Goals*.

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					<ul style="list-style-type: none"> In case of any complaints, air quality measurement will be carried out at the nearest sensitive receptors in accordance with international standards, and the results will be recorded. Speed limits will be set for construction equipment, and actions will be taken to ensure that such limits are complied with. During transportation, excavated materials will be covered with nylon canvas or materials with grain size larger than 10 mm Any damage caused by inadequate dust suppression measures (i.e. pollution of the surrounding area, transport to a residential area by wind, dust deposits by the wind, etc.) will be compensated by the contractor. 		
Noise	Noise from Construction Works	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Residents living near the sub-project area will be informed during the construction phase. Construction works will be planned in consultation with local communities, and operations with the highest noise generation potential will be scheduled during the time of the day that will cause minimum disturbance. Use of roads close to the settlements in transportation activities for the sub-project will be avoided or minimized. "Low noise" equipment will be used as much as possible during the construction phase. Where construction equipment is provided with impermeable acoustic covers or enclosures, covers will be kept closed while equipment is in operation. Equipment and vehicles used externally will be regularly maintained. When equipment is not working, they will be turned off or reduced to the minimum level. Vibration levels will be monitored in case of complaints, and measures will be taken to reduce vibration if standards are exceeded. Noise measurement will be carried out at the nearest noise sensitive receptors in accordance with the international standard, in case of any complaints. 	Project Owner (Gölbaşı Municipality) Contractor	Low
Waste Management	Wastes of Construction Works	Adverse	Medium	Included in construction costs	<ul style="list-style-type: none"> During the construction period, any waste will be collected separately at source, and stored in the temporary waste storage area. Construction waste will be regularly collected by licensed collectors at the permitted excavation waste storage site of the Municipality. Waste disposal records will be kept regularly. To keep these records, a Waste Registry Information Form will be prepared, which will contain information on the waste code, amount, and transfer and disposal method as presented in the Waste Management Regulation – ANNEX IV. Where appropriate, waste can be reused or recycled. Temporary storage of medical waste will be performed in accordance with Article 14 of the Medical Waste Control Regulation. In addition, medical waste will be transported to processing facilities in accordance with Article 15 of the same regulation. 	Project Owner (Gölbaşı Municipality) Contractor	
Domestic Waste	Waste management failure, pollution from waste	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Any domestic waste generated will be sorted at source (plastic, glass, paper, etc.), and reusable waste will be recycled. Unrecyclable waste will be collected in closed sanitary trash bins and will be disposed of by the solid waste collection system of Ankara/Gölbaşı Municipalities. 	Project Owner (Gölbaşı Municipality) Contractor	Low
Waste Oils	Waste management failure, pollution from waste	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> If different categories of oils are generated from the works at the construction site, these oils will be stored separately. Containers where waste oils are stored will be kept closed and protected from rainwater. Waste oils will only be transported by licensed transportation companies, and will only be delivered to licensed recycling or disposal facilities. 	Project Owner (Gölbaşı Municipality) Contractor	Low
Waste Batteries and Accumulators	Waste management failure, pollution from waste	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Waste batteries will be collected separately from other wastes, delivered to authorized organizations and recycled. Waste batteries and accumulators will be delivered to waste battery and accumulator disposal facilities within the Municipal borders through authorized transportation companies. 	Project Owner (Gölbaşı Municipality) Contractor	Low
End-of-life Tires	Waste management failure, pollution from waste	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> In cases when tires of the vehicles to be changed during construction activities; end-of-life tires will be delivered to the companies that distributes and sells tires via the authorized transportation companies. 	Project Owner (Gölbaşı Municipality) Contractor	Low
Excavation Soil, Construction and Demolition Wastes	Waste management failure, pollution from waste, loss of top soil	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Consideration will be given to recycling of excavation soil and construction wastes and especially to their reuse as infrastructure material. For a robust recycling and disposal system, waste will be sorted at source. Removal of the excavated material, which will not be used for backfilling, from the site will be performed at regular intervals without waiting. These materials will be transferred to permitted excavation waste storage area by licensed transportation companies. 	Project Owner (Gölbaşı Municipality) Contractor	Low

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
Wastewater and Water Management	Wastewater management failure, pollution from wastewater	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> Wastewater generated during the construction works will be integrated into the existing sewerage system, and necessary agreements will be executed with the municipality so that the wastewater sewer system ending with Ankara Wastewater Treatment Plant. 	Project Owner (Gölbaşı Municipality) Contractor	Low
Hazardous Materials	Pollution from hazardous materials	Adverse	Low	Included in construction costs	<ul style="list-style-type: none"> If hazardous wastes are stored in the sub-project area, those wastes will be stored in containers that are strong, leak-proof, safe and in accordance with internationally recognized standards. The containers will bear "hazardous waste" label, with the amount, content, properties, storage conditions and storage date of the stored material indicated on the containers. Containers containing hazardous materials will be placed in sealed vessels to prevent spills and leaks. Hazardous wastes will be transported by licensed waste transportation companies and will be disposed of at licensed facilities. Toxic paints, solvents or lead-based paints will not be used. Hazardous waste management will be fulfilled in consultation with Ankara/Gölbaşı Municipality in accordance with the Hazardous Waste Control Regulation. Hazardous chemicals and wastes likely to be generated at the construction site will be stored not to pose a threat to community health. The disposal of hazardous chemicals and wastes that may be generated at the construction site will be carried out at licensed facilities under the supervision of authorized companies and experts. 	Project Owner (Gölbaşı Municipality) Contractor	Low
Biodiversity	Protection	Adverse	Low	Additional cost is not expected.	<ul style="list-style-type: none"> The contractors will implement BMP developed for the sub-project. Although <i>Cyanus tchihatcheffi</i> is not present in the project area, trainings will be given to the personnel for the conservation of the species during construction activities in case it is present in the vicinity of the project area. Vertebrate species present in the application area will be removed from the area before the surface is cleaned of vegetation. In any area to be used, all existing stones, regardless of size, will be removed and the vertebrate species underneath them should be allowed to move away (people who will do this should wear gloves). Especially when a tortoise is seen, it will be given time to move away from the area. If any vertebrate species is encountered during the use of any area, it will be allowed to move away from the area on its own without intervention. Permanent roads and buildings in the sub-project area will be planned and constructed in a way to minimize the impact. <ul style="list-style-type: none"> The buildings are as small as possible, Generating minimum heat and light, The structure will not contain any form of insect collecting or harboring features. Noise, vibration, lighting and other disturbing effects during construction works will be minimized. Whenever possible, existing ways of implementation will be used. Vehicle drivers will be educated about vertebrate species so that they can recognize the species they may frequently encounter in the area and be informed about what to do when they encounter these species. All outputs (sound, light, exhaust gas, etc.) of the vehicles to be used in transportation will be periodically checked and minimized. After loading the vehicles, the body of the vehicle will be covered to prevent the material from spreading to the environment. The maximum speed in the whole area will not exceed 30 km/h. The plant will be operated by minimizing sound generation during operation. The light sources used by the facility, especially at night, will be non-LED light sources and directed so that they do not illuminate the surrounding vertebrate habitats. Prohibit hunting, trapping and intentional killing of wild animals by the sub-project workers and drivers. 	Project Owner (Gölbaşı Municipality) Contractor	Low

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
					<ul style="list-style-type: none"> All waste generated by the facility will be transferred to waste treatment and storage facilities. During transfer, the designated route and transfer vehicles will operate in such a way that they do not release waste into the environment. 		
Cultural Heritage	Loss of cultural heritage	Adverse	Low	Additional cost is not expected.	<ul style="list-style-type: none"> The Contractor will implement Chance Find Procedure and Cultural Heritage Management Plan. The Contractor will inform relevant staff (particularly machinery operators) of the location of all protected heritage or archaeological sites within the sub-project area or its surroundings and ensure they are trained in responsibilities to protect identified sites and report any suspected heritage discoveries. Records will be maintained for audit. The Contractor will maintain public access to the archaeological and cultural sites during construction works in consultation with the Project Environment Department. The Contractor will not site power generation, blasting, excavation, compaction, heavy vehicle movement, piling, hazardous material storage, or other significant sources of vibration or contamination within 50 meters of known heritage sites without approval from the Project Environment Department. The Contractor will retain qualified archaeologists with input from the sub-project Environment Department for periodic site inspections and overall management of cultural heritage features. Records of periodic heritage inspections should be made available for audit. The Contractor will prohibit disturbance or damage to any archaeological and cultural asset, including graffiti. In the event of an unexpected archaeological find, the Contractor will comply with the Chance Find Procedure: <ul style="list-style-type: none"> All work will cease at the location where the discovery is made. A temporary buffer zone around the chance find will be put in place. The cultural heritage/archaeological monitoring expert(s) will contact the Contractor site management and museum expert immediately. The cultural heritage/archaeological monitoring expert(s) will properly secure the chance find site with flagging, no-entry signs, etc. Protection of the site: in case any chance find, chance find will not be moved, removed, or further disturbed 	Contractor Project Owner (Gölbaşı Municipality)	Low

Table 6-2: Mitigation Plan for the Operation Phase

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
Occupational Health and Safety (OHS)	Inadequate workers health and safety conditions	Adverse	High	Included in construction costs	<ul style="list-style-type: none"> An Occupational Health and Safety Management Plan will developed and implemented for the sub-project's operation phase. Employees will be informed about their job descriptions, responsibilities, local community relations, and potential occupational health and safety risks before starting work. Proper induction, health and safety training, and necessary information will be provided to employees. All equipment used during the operation phase will be well-maintained. An Emergency Preparedness and Response Plan will be prepared to address potential accidents and emergencies. Emergency teams will be formed, and drills and training programs will be conducted in line with emergency scenarios. Employees will be familiar with emergency plans, and grievances requiring urgent action will be reported to authorized teams and resolved. First aid equipment will be available at the rehabilitation center in case of accidents during the operation phase. Gölbaşı Municipality commits to safe and disciplined work practices designed to minimize risks to neighboring residents and the environment, adhering to both the Law on Occupational Health and Safety and the WBG's EHS Guidelines. Precautions regarding chemical use will be implemented, including: <ul style="list-style-type: none"> Training operators on safe handling practices. Providing appropriate PPE. Installing safety showers and eyewash stations. Rotating personnel to reduce inhalation of hazardous materials. Water and sanitation facility procedures will prevent and control chemical exposure. Sewerage system safety practices will minimize accidents and injuries. Gölbaşı Municipality will ensure workers have proper training, PPE, and access to first aid stations. Exposure levels will be monitored. Both trainings and incidents will be recorded. Significant incidents or near misses will be reported to the MoIT and WB within specified timeframes. Internationally compliant equipment will be used. Workers will have access to a grievance mechanism for issues related to Occupational Health and Safety standards. In case of accident/incident, the Project Owner within 24 hours will inform ILBANK, and ILBANK will inform the WB within three working days. A report on the root causes of the incident and the corrective actions to be taken will be submitted to ILBANK and the WB within 30 days. 	Project Owner (Gölbaşı Municipality)	Low
Employment / Economy	Contribution to economy	Positive	Low	Additional cost is not expected	<ul style="list-style-type: none"> Efforts will be made to contribute to the local economy by using local materials and procuring various goods and services from local resources. Priority will be given to hiring local labor where possible and practical. During the recruitment process, local collaborations will be made to deliver job postings to vulnerable groups, and announcements will be made in a comprehensive manner. Employment opportunities will be allocated to local parties and settlements within the Aol. 	Project Owner (Gölbaşı Municipality)	Low
	Child labor, forced labor and unregistered employment	Adverse	Low	Additional cost is not expected	<ul style="list-style-type: none"> Work permits of employees will be checked to prohibit the use of forced labor and child labor under the age of 18. Employees will be trained to prevent discrimination in the workplace. 	Project Owner (Gölbaşı Municipality)	Low
Labor Conditions	Improper Working Conditions, Child labor, forced labor and unregistered employment	Adverse	Low	Additional cost is not expected	<ul style="list-style-type: none"> A Labor Management Plan will be developed and implemented for the sub-project. Workers will be introduced to the Grievance Mechanism Officer/Social Specialist and will be made aware of and have access to the grievance mechanism. All workers will receive written contracts detailing job descriptions, wages, work hours, and other relevant information. Minimum legal labor standards, including regulations on child and forced labor, anti-discrimination, working hours, and minimum wages, will be met in accordance with ILO regulations. 	Project Owner (Gölbaşı Municipality)	Low
Community Health and Safety	Community health and safety risks	Adverse	Negligible	Additional cost is not expected	<ul style="list-style-type: none"> Community Health, Safety, and Security Management Plan, as well as a Transport and Traffic Management Plan, will be developed and implemented for the operation phase of the sub-project. The public, nearby institutions and organizations, and hospitals and schools will be informed at least two days before any repair or maintenance work that may cause temporary disturbances begins. 	Project Owner (Gölbaşı Municipality)	Negligible

Topic	Definition of Potential Impact	Type of Impact	Impact Significance Before Mitigation	Cost	Measures to be Taken	Responsibility	Impact Significance After Mitigation
					<ul style="list-style-type: none"> The grievance mechanism officer will be introduced to the local community, and updated information about the grievance mechanism will be continuously provided. Any updates to the documents will be announced to the local community through the relevant mukhtar's office. Project staff including security personnel will receive training on risks such as Gender-Based Violence (GBV), Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH) as part of the grievance mechanism. 		
Stakeholder Engagement	Insufficient stakeholder engagement activities	Adverse	Low	Additional cost is not expected	<ul style="list-style-type: none"> The Stakeholder Engagement Plan will be revised and implemented for the operation phase of the sub-project. Regular consultations will be carried out with the authorities and communities regarding the project management. 	Project Owner (Gölbaşı Municipality)	Low
Grievance Mechanism	Inefficient Grievance Mechanism	Adverse	Low	Additional cost is not expected	<ul style="list-style-type: none"> An efficient Grievance Mechanism will be initiated to allow potentially affected individuals to voice their concerns on the sub-project. 	Project Owner (Gölbaşı Municipality)	Low
Soil Quality	Soil Degradation	Adverse	Low	Additional cost is not expected	<ul style="list-style-type: none"> If soil contamination is detected in the area, operational works within the sub-project area will commence only after the rehabilitation of the affected area in accordance with national legislation. 	Project Owner (Gölbaşı Municipality)	Low
Air Quality	Low Air Quality	Adverse	Low	Additional cost is not expected	<ul style="list-style-type: none"> Vehicles and equipment used during the operation phase will undergo regular maintenance, with maintenance records being kept. Whenever possible, electric-powered vehicles and equipment will be used instead of those powered by fossil fuels. 	Project Owner (Gölbaşı Municipality)	Low
Waste Management	Wastes Generation	Adverse	Medium	Additional cost is not expected	<ul style="list-style-type: none"> A Waste Management Plan will be prepared for the operation phase of the sub-project. Waste will be characterized based on its composition, source, types, generation rates, or local legal requirements. In addition to adopting waste prevention strategies, implementing recycling plans will significantly reduce the total amount of waste. If waste materials are still generated after appropriate waste prevention, reduction, reuse, and recycling measures are enacted, all necessary measures will be taken to avoid potential effects of waste treatment and disposal on human health and the environment. Specific measures will be taken for oils, greases used during maintenance activities, and chemicals used during the operation of the sub-project. All storage tanks and drums will be placed on concrete areas with proper secondary containment. Spill kits, absorbent pads or materials, and adsorbent sands will be always provided near chemical storage areas. 	Project Owner (Gölbaşı Municipality)	Low
Waste Batteries and Accumulators	Waste management failure, pollution from waste	Adverse	Low	Additional cost is not expected	<ul style="list-style-type: none"> Waste batteries will be collected separately from other wastes, delivered to authorized organizations and recycled. Waste batteries and accumulators will be delivered to waste battery and accumulator disposal facilities within the Municipal borders through authorized transportation companies. 	Project Owner (Gölbaşı Municipality)	Low
Biodiversity	<p>Disturbance of fauna species</p> <p>Accidental or deliberate damage to habitat species</p> <p>Spread of invasive species</p>	Adverse	Medium	Additional cost is not expected	<ul style="list-style-type: none"> If species are encountered in the sub-project area, they will not be disturbed, especially during breeding, feeding, and wintering periods. Their eggs will not be damaged or collected, even if they are empty. Operation sites will be fenced to prevent fauna species from entering these areas. Prohibit hunting, trapping and intentional killing of wild animals by the sub-project workers and drivers. Mitigation measures will be implemented to reduce noise, dust, and air pollution. Lighting for security purposes will be directed inward and downward to minimize light pollution in remote areas and to reduce disturbance to nocturnal wildlife and birds. Only non-invasive, native species will be used for rehabilitation. 	Project Owner (Gölbaşı Municipality)	Low

6.2. Monitoring Plan for the Sub-Project

Table 6-3: Monitoring Plan for the Construction Phase

Issue	Monitoring Location	Timing / Frequency of Monitoring	Parameters Monitored	Monitoring Method	Target/ threshold values	Legal Requirements for monitoring	Key Performance Indicators	Cost	Responsible Party
Disclosure	Settlements near the sub-project area	Monthly	Grievances Meeting records Web site	<ul style="list-style-type: none"> On-site inspections Minutes of meetings Grievance mechanism records 	Project specific ESMP, SEP and GM will be prepared and disclosed at the Project web site	<ul style="list-style-type: none"> Regulation on Control of Environmental Noise Regulation on Air Quality Assessment and Management WB OP 4.01 	<ul style="list-style-type: none"> Grievance Records Number of grievances Percentage of closed grievances within the target timeframe 	No additional cost	Project Owner (Gölbaşı Municipality) Contractor
Labor Conditions	Sub-Project area	Monthly	Grievances	<ul style="list-style-type: none"> Internal and external audits Grievance records Accident records Training records Sample contracts Human Resource Policy Number of the local employees Legal work permit 	Zero grievances closed out within the target timeframe	<ul style="list-style-type: none"> Labor Law (No. 4857) Law on Trade Unions and Collective Bargaining Agreements ILO International Regulations 	<ul style="list-style-type: none"> Number of worker grievances Percentage of closed grievances within the target timeframe 	No additional costs	Project Owner (Gölbaşı Municipality) Contractor
Occupational Health and Safety	Sub-Project area Settlements near the sub-project area	Daily	Safe conditions and worker' behaviours on the construction site Risk analysis and procedures Disease Incidents Grievances Toolbox talks and trainings HSE Inspection Legal Requirements EPRP Work Permits	<ul style="list-style-type: none"> On-site inspections Interviews with employees Complaint records Training and toolbox records Contract examples Internal and external audits Accident and near miss records Drill records On site permit records 	<ul style="list-style-type: none"> >90% of scheduled HSE Inspection >90% of attendance at HSE meetings 100% of closing of NCRs 100% Reporting safe observations 100% Reporting unsafe observations 100% Reporting near misses >90% of Toolbox attending >90% of Risk Assessment compliance >90% of Legal Requirements compliance >85 Results of scheduled audits 90% of all training 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 	<ul style="list-style-type: none"> Occupational Health and Safety Law Regulation on Health and Safety Requirements for the Use of Work Equipment 	<ul style="list-style-type: none"> % of scheduled HSE Inspection % of attendance at HSE meetings % of closing of NCRs Reporting safe observations Reporting unsafe observations Reporting near misses % of Toolbox attending % of Risk Assessment compliance % of Legal Requirements compliance Results of scheduled audits HSE training carried out to training matrix > 90% of all training to matrix % of attendance at scheduled trainings Engagement in HSE program by individual managers and supervisors Engagement in HSE program by contractor's 	No additional costs	Project Owner (Gölbaşı Municipality) Contractor

Issue	Monitoring Location	Timing / Frequency of Monitoring	Parameters Monitored	Monitoring Method	Target/ threshold values	Legal Requirements for monitoring	Key Performance Indicators	Cost	Responsible Party
Community Health & Safety	Sub-Project area Residential areas around the sub-project area	Daily	Safety conditions at the site Fencing of construction site Warning signs and flashlights Grievances Incidents Accidents	<ul style="list-style-type: none"> Records of comments/ suggestions/ grievances Site Audits Training records 	No significant increase in communicable and non-communicable disease and injury rates per 1,000 residents per annum. Decreasing number/ continuous improvement in number of complaints Zero incidents per year	<ul style="list-style-type: none"> Public Health Law Health and Safety Signs Regulation 	<ul style="list-style-type: none"> Number of communicable and non-communicable diseases and injuries. Number of community health safety & security complaints from local communities as recorded in the grievance management system. Number of reported community health & safety incidents Number of reported noise incidents 	No additional costs	Project Owner (Gölbaşı Municipality) Contractor
Monitoring and Reporting	Sub-Project area	During the construction period, the contractor will report the ESMP Monitoring Reports (including BMP and CHMP) monthly to the Project owner.	N/A	<ul style="list-style-type: none"> On-site inspection Record control 	N/A	WB OP 4.01	N/A	No additional costs	Contractors
	Sub-Project area	The Project Owner will report the ESMP Monitoring Reports (including BMP and CHMP) to ILBANK every 3 months together with the Grievance Register.	N/A	<ul style="list-style-type: none"> On-site inspection Record control 	N/A	WB OP 4.01	N/A	No additional costs	Project Owner (Gölbaşı Municipality)
	Sub-Project area	ILBANK, will compile the ESMP Monitoring Reports and submit them to WB bi-annually.	N/A	<ul style="list-style-type: none"> On-site inspection Record control 	N/A	WB OP 4.01	N/A	No additional costs	ILBANK
Land Use	Sub-Project area Settlements near the sub-project area	Monthly	Grievance Records	<ul style="list-style-type: none"> Grievance mechanism Compensation for unintended damages to land and structures during construction 	Zero grievances not closed out within the target timeframe	<ul style="list-style-type: none"> WP OP 4.12 Soil Conservation and Land Use Law No. 5400 	<ul style="list-style-type: none"> Grievance Records Number of grievances Percentage of closed grievances within the target timeframe 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Grievance Mechanism	Sub-Project area Settlements near the sub-project area	Monthly	Grievance Records	<ul style="list-style-type: none"> View/suggestion/ grievance records On-site inspection 	Zero grievances not closed out within the target timeframe	ILBANK SCP-II ESMF	<ul style="list-style-type: none"> Grievance Records Number of grievances Percentage of closed grievances within the target timeframe 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Sustainable Development	Settlements near the sub-project area	Monthly	N/A	<ul style="list-style-type: none"> View/suggestion/grievance records Product supply records List of employees On-site inspection 	N/A	WB OP 4.01	N/A	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Air Quality	Sub-Project area Settlements and schools near the sub-project area	In case of grievance Daily Visual Observations Monthly	Grievance Records	<ul style="list-style-type: none"> On-site inspections PM2.5 and PM10 Measurements to be performed in case of grievance 	<ul style="list-style-type: none"> Minimization and continued improvement in the number of reported air quality related incidents. Zero complaints per year Minimization and continued improvement in the number of air quality related community complaints. 	<ul style="list-style-type: none"> Regulation on Air Quality Assessment and Management WB OP 4.01 	<ul style="list-style-type: none"> Air Quality incidents Records of Non-Compliance with air quality standards Community complaints 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors

Issue	Monitoring Location	Timing / Frequency of Monitoring	Parameters Monitored	Monitoring Method	Target/ threshold values	Legal Requirements for monitoring	Key Performance Indicators	Cost	Responsible Party
Noise	Sub-Project area Settlements near the sub-project area	In case of grievance Daily Observations Monthly	Grievance Records	<ul style="list-style-type: none"> Monitoring conducted at the nearest sensitive receptors using noise measuring devices On-site inspections Measurements to be performed in case of grievance 	<ul style="list-style-type: none"> Minimize and continue improvement in number of reported noise and vibration related incidents. Zero NCRs per year Zero grievances per year 	Regulation on Control of Environmental Noise	<ul style="list-style-type: none"> Noise and Vibration incidents Records of Non-Compliance with Project standards Number of noise-related community grievances 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Waste Management	Sub-Project area	Daily	<ul style="list-style-type: none"> Temporary waste storage area conditions Waste amount Recovery / reuse / recycle ratio 	<ul style="list-style-type: none"> Waste records On-site inspection 	<ul style="list-style-type: none"> Minimization of total waste generated Minimize the ratio of hazardous waste generated to total waste (by contamination + by generation) Increasing the ratio of recovered/reused/recycled waste to total waste generated 	<ul style="list-style-type: none"> Packaging Waste Control Regulation Waste Management Regulation 	<ul style="list-style-type: none"> Total waste generated Ratio of hazardous waste generated to total waste (by contamination + by generation) Ratio of recovered/ reused/ recycled waste to total waste generated 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Domestic Waste	Sub-Project area	Daily	<ul style="list-style-type: none"> Waste amount Recovery /reuse /recycle ratio 	<ul style="list-style-type: none"> Waste records On-site inspection 	<ul style="list-style-type: none"> Minimization of total waste generated Increase in the ratio of recovered/ reused/ recycled to landfilled 	<ul style="list-style-type: none"> Packaging Waste Control Regulation Waste Management Regulation 	<ul style="list-style-type: none"> Total waste generated Ratio of recovered/ reused/ recycled waste to total waste generated Records regarding transportation and disposal. 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Waste Oils	Sub-Project area	Weekly	<ul style="list-style-type: none"> Waste amount Waste storage conditions Recovery /reuse/ recycle ratio 	<ul style="list-style-type: none"> Visual observations Waste records 	<ul style="list-style-type: none"> Minimization of total waste generated Increase in the ratio of recovered/ reused/ recycled waste to total waste generated 	Waste Oil Control Regulation	<ul style="list-style-type: none"> Total waste generated Ratio of recycled waste to total waste generated. Records regarding transportation and disposal. 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Waste Batteries and Accumulators	Sub-Project area	Monthly	<ul style="list-style-type: none"> Waste amount Recovery /reuse/ recycle ratio 	Waste records	<ul style="list-style-type: none"> Minimization of total waste generated Increase in the ratio of recovered/ reused/ recycled waste to total waste generated 	Waste Battery and Accumulator Regulation	<ul style="list-style-type: none"> Total waste generated Ratio of recycled waste to total waste generated. Records regarding transportation and disposal. 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Excavation Soil, Construction and Debris Demolition Wastes	Sub-Project area	Daily	Waste amount and storage conditions Transfer records	On-site inspection	<ul style="list-style-type: none"> Minimization of total waste generated Increase in the ratio of recovered/ reused/ recycled waste to total waste generated 	Regulation on the Control of Excavation Soil, Construction and Demolition Wastes	<ul style="list-style-type: none"> Total waste generated Records regarding transportation and disposal. 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Wastewater and Water Management	Sub-Project area	At the beginning of the sub-project Monthly	Sewer connection permit.	Official Letter regarding permit.	<ul style="list-style-type: none"> Permit in place. 	<ul style="list-style-type: none"> Water Pollution Control Regulation 	<ul style="list-style-type: none"> Permit 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors
Hazardous Waste Management	Sub-Project area	During Construction Daily	Waste amount and storage conditions	<ul style="list-style-type: none"> Waste records On-site inspection 	Increase in the ratio of hazardous waste generated to total hazardous waste (by contamination + by generation)	Waste Management Regulation	<ul style="list-style-type: none"> Total waste generated Records regarding transportation and disposal. 	No additional costs	Project Owner (Gölbaşı Municipality) Contractors

Issue	Monitoring Location	Timing / Frequency of Monitoring	Parameters Monitored	Monitoring Method	Target/ threshold values	Legal Requirements for monitoring	Key Performance Indicators	Cost	Responsible Party
Cultural Heritage	Project area Settlements near the sub-project area	Monthly	CHMP is in place and implemented Existence of a Chance Find	<ul style="list-style-type: none"> On-site inspection Existence of a Chance Find Procedure 	Zero Grievance Records	<ul style="list-style-type: none"> Law on the Conservation of Cultural and Natural Properties WB OP 4.11 	<ul style="list-style-type: none"> Number of chance find records and reports 	No additional costs	Project Owner (Gölbasi Municipality) Contractors
Direct and indirect threats posed by construction activities against traffic and pedestrians	Sub-Project area	Daily	Grievance Information gathered through Public Consultation Information on available pedestrian ways Existence and number of warning signs properly installed Training records for drivers Availability of EPRP	On-site inspection	<ul style="list-style-type: none"> Number of non-compliances against the mitigation controls identified in Traffic Management Plan Zero number of drivers found to be exceeding speed limits or driving unsafely Number of road traffic accidents involving: <ul style="list-style-type: none"> Zero accidental injuries and deaths, Zero traffic-related grievances Driver training records Existence of EPRP Installation of warning signs 	Occupational Health and Safety Law	<ul style="list-style-type: none"> Number of non-compliances against the mitigation controls identified in Traffic Management Plan Number of drivers found to be exceeding speed limits or driving unsafely Number of road traffic accidents involving: <ul style="list-style-type: none"> Accidental injuries and deaths Spillages (such as cargo or fuel) Wildlife-vehicle collisions Number of traffic-related grievances 	No additional costs	Project Owner (Gölbasi Municipality) Contractors
Access to the Construction Site Security Fence Protection Tape	Settlements near the sub-project area	Daily	Grievance	On-site inspection	Zero Number of unauthorized accesses to the project site	Occupational Health and Safety Law	Number of unauthorized accesses to the project site	No additional costs	Project Owner (Gölbasi Municipality) Contractors
Biodiversity	Sub-Project area	Daily	Incident/ accident reports Inspection reports	On-site inspection	Zero damage to flora and fauna Zero hunting, foraging, logging	WB OP 4.04 Environmental Law and binding regulations	Number of flora and fauna losses	No additional costs	Project Owner (Gölbasi Municipality) Contractors

Table 6-4: Monitoring Plan for the Operation Phase

Issue	Monitoring Location	Timing / Frequency of Monitoring	Parameters Monitored	Monitoring Method	Target/ threshold values	Legal Requirements for monitoring	Key Performance Indicators	Cost	Responsible Party
Labor Conditions	Sub-Project area	Monthly	Grievances	<ul style="list-style-type: none"> Internal and external audits Grievance records Accident records Training records Sample contracts Human Resource Policy Number of the local employees Legal work permit 	Zero grievances closed out within the target timeframe	<ul style="list-style-type: none"> Labor Law (No. 4857) Law on Trade Unions and Collective Bargaining Agreements ILO International Regulations 	<ul style="list-style-type: none"> Number of worker grievances Percentage of closed grievances within the target timeframe 	No additional costs	Project Owner (Gölbaşı Municipality)
Occupational Health and Safety	Sub-Project area Settlements near the sub-project area	Monthly	Safe conditions and worker' behaviours on the construction site Risk analysis and procedures Disease Incidents Grievances Toolbox talks and trainings HSE Inspection Legal Requirements EPRP Work Permits	<ul style="list-style-type: none"> On-site inspections Interviews with employees Complaint records Training and toolbox records Contract examples Internal and external audits Accident and near miss records Drill records On site permit records 	<ul style="list-style-type: none"> >90% of scheduled HSE Inspection >90% of attendance at HSE meetings 100% of closing of NCRs 100% Reporting safe observations 100% Reporting unsafe observations 100% Reporting near misses >90% of Toolbox attending >90% of Risk Assessment compliance >90% of Legal Requirements compliance >85 Results of scheduled audits 90% of all training 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 	<ul style="list-style-type: none"> Occupational Health and Safety Law Regulation on Health and Safety Requirements for the Use of Work Equipment 	<ul style="list-style-type: none"> % of scheduled HSE Inspection % of attendance at HSE meetings % of closing of NCRs Reporting safe observations Reporting unsafe observations Reporting near misses % of Toolbox attending % of Risk Assessment compliance % of Legal Requirements compliance Results of scheduled audits HSE training carried out to training matrix > 90% of all training to matrix % of attendance at scheduled trainings Engagement in HSE program by individual managers and supervisors Engagement in HSE program by contractor's 	No additional costs	Project Owner (Gölbaşı Municipality)
Community Health & Safety	Sub-Project area Residential areas around the sub-project area	Monthly	Safety conditions at the site Fencing of construction site Warning signs and flashlights Grievances Incidents Accidents	<ul style="list-style-type: none"> Records of comments/ suggestions/ grievances Site Audits Training records 	No significant increase in communicable and non-communicable disease and injury rates per 1,000 residents per annum. Decreasing number/ continuous improvement in number of complaints Zero incidents per year	<ul style="list-style-type: none"> Public Health Law Health and Safety Signs Regulation 	<ul style="list-style-type: none"> Number of communicable and non-communicable diseases and injuries. Number of community health safety & security complaints from local communities as recorded in the grievance management system. Number of reported community health & safety incidents Number of reported noise incidents 	No additional costs	Project Owner (Gölbaşı Municipality)
Monitoring and Reporting	Sub-Project area	The Project Owner will report the ESMP Monitoring Reports (including BMP and CHMP) to ILBANK	N/A	<ul style="list-style-type: none"> On-site inspection Record control 	N/A	WB OP 4.01	N/A	No additional costs	Project Owner (Gölbaşı Municipality)

Issue	Monitoring Location	Timing / Frequency of Monitoring	Parameters Monitored	Monitoring Method	Target/ threshold values	Legal Requirements for monitoring	Key Performance Indicators	Cost	Responsible Party
		annually together with the Grievance Register.							
	Sub-Project area	ILBANK, will submit ESMP Monitoring Reports to WB annually.	N/A	<ul style="list-style-type: none"> On-site inspection Record control 	N/A	WB OP 4.01	N/A	No additional costs	ILBANK
Grievance Mechanism	Sub-Project area Settlements near the sub-project area	Monthly	Grievance Records	<ul style="list-style-type: none"> View/suggestion/ grievance records On-site inspection 	Zero grievances not closed out within the target timeframe	ILBANK SCP-II ESMF	<ul style="list-style-type: none"> Grievance Records Number of grievances Percentage of closed grievances within the target timeframe 	No additional costs	Project Owner (Gölbaşı Municipality)
Waste Management	Sub-Project area	Daily	<ul style="list-style-type: none"> Temporary waste storage area conditions Waste amount Recovery / reuse / recycle ratio 	<ul style="list-style-type: none"> Waste records On-site inspection 	<ul style="list-style-type: none"> Minimization of total waste generated Minimize the ratio of hazardous waste generated to total waste (by contamination + by generation) Increasing the ratio of recovered/reused/recycled waste to total waste generated 	<ul style="list-style-type: none"> Packaging Waste Control Regulation Waste Management Regulation 	<ul style="list-style-type: none"> Total waste generated Ratio of hazardous waste generated to total waste (by contamination + by generation) Ratio of recovered/ reused/ recycled waste to total waste generated 	No additional costs	Project Owner (Gölbaşı Municipality)
Wastewater and Water Management	Sub-Project area	Monthly	Sewer connection permit.	Official Letter regarding permit.	<ul style="list-style-type: none"> Permit in place. 	<ul style="list-style-type: none"> Water Pollution Control Regulation 	<ul style="list-style-type: none"> Permit 	No additional costs	Project Owner (Gölbaşı Municipality)

7. STAKEHOLDER ENGAGEMENT

7.1. Stakeholder Engagement

This stakeholder engagement is essential for an ESMP that provides a platform for individuals, groups and organizations directly or indirectly affected by the sub-project to express their views and concerns about the sub-project. With the information obtained from stakeholders, impact assessment is conducted, and mitigation measures are developed. Effective stakeholder engagement ensures that all affected parties are identified and engaged, improves their understanding of the sub-project, and identifies issues that may pose risks early in the project cycle. It also gauges the expectations, needs and demands of local communities, identifies ways to maximize the benefits of the sub-project for these communities, and ensures the appropriateness and effectiveness of mitigation measures. It also ensures the continuity of communication between all parties involved in the sub-project and local communities

7.1.1. Previous Stakeholder Engagement Activities

No preliminary stakeholder engagement activities were conducted for this project.

7.1.2. Stakeholder Identification and Analysis

The purpose of a stakeholder identification is to determine and prioritize the sub-project stakeholders for consultation that may be affected (either directly or indirectly in positive or negative way) by the sub-project or that have an interest in the sub-project but are not necessarily directly impacted by it.

Within the scope of this project, a comprehensive list of the internal and external stakeholders is given in Table 7-1.

Table 7-1. Comprehensive List of the Stakeholder Identified for the Sub-Project

Stakeholder Groups	Level of Interest	Level of Influence
Direct Stakeholders		
Directly Affected Communities		
Residents in the project area of influence	High	High
Vulnerable individuals/groups in the project area of influence	High	High
Formal or informal users of lands allocated to the sub-project	High	High
Public Administrations at National Level		
The Ministry of Environment, Urbanization and Climate Change.	Low	Low
Ministry of Energy and Natural Resources	High	Moderate
Turkish Energy Market Regulatory Board	Low	Low
Ministry of Industry and Technology	Low	Low
General Directorate of Energy Affairs	High	Moderate
General Directorate of ILBANK	High	Moderate
Directorate General of Migration Management	Low	Low
Public Administrations/Authorities/Agencies at Provincial Level		
Gölbaşı Municipality	High	High
Provincial Directorate of Environment, Urbanization and Climate Change	Moderate	Moderate
Muhtar of Gökçeşhüyük Neighborhood	High	High
Başkent EDAŞ Electricity Distribution Company	High	Low

Stakeholder Groups	Level of Interest	Level of Influence
Direct Stakeholders		
Contractors/Sub-contractors and Supervision Consultant Companies	High	High
Indirect Stakeholders		
Indirectly Affected Communities		
Residents outside of the project area of influence	Low	Low
Public Administrations at National Level		
Ministry of Interior Affairs	Low	Low
Ministry of Agriculture and Forestry	Low	Low
Public Administrations/Authorities/Agencies at Provincial Level		
Governorship of Gölbaşı	Low	Moderate
Provincial Directorate of Disaster and Emergency	Low	Low
Provincial Directorate of Health	Low	Low
T.C. Ankara Development Agency	Low	Low
Turkish Employment Agency (IS-KUR) – Ankara Branch	Low	Moderate
Other Interested Parties		
Chamber of Environmental Engineers	Moderate	Moderate
International Solar Energy Society (GUNDER)	Moderate	Moderate
International Refugee Rights Association	Low	Low
Media Organs in Ankara Province	Low	Moderate
Business enterprises located close to the sub-project area (service area ~450 m distance)	Moderate	Moderate
University	Low	Low

As part of the stakeholder identification process, it is also important to identify individuals and groups that may be differentially or disproportionately affected by the sub-project because of their disadvantaged or vulnerable status. The potential vulnerable/disadvantaged groups can be listed as follows:

- Households with physically and / or mentally disabled family members,
- People with chronic diseases,
- Elderly people over 65 years of age who live alone and in need of care,
- Female-headed households,
- Households where the head of the household is a child,
- Households with low or no income, and
- Refugee households.

The sub-project is situated at a distance of approximately 1.5 km from Gökçehüyük neighbourhood as the closest residential area.

The sub-project acknowledges the possibility of identifying sensitive disadvantaged groups within its scope. These groups may encompass household with disabled family members, women headed households, low-income households, among others. The sub-project remains open to making necessary adjustments based on feedback and complaints received from stakeholders.

Potential vulnerable/disadvantaged groups and their needs are provided below in Table 7-2.

Table 7-2. Potential Vulnerable/Disadvantaged Groups and their needs

Community	Stakeholder group	Key characteristics	Language needs	Preferred notification means (e-mail, phone, radio, letter)	Specific needs (accessibility, large print, childcare, daytime meetings)
Çerkezhöyük (Gökçeşhüyük) Neighborhood	Parents with young children	The number of households affected and which of children - To be Determined (TBD)	Official language	Written information, radio	Childcare for meetings—late afternoon preferred timing
	Refugees	The number of extended families, poverty level (TBD)	Language alternative	Visit with translator and civil society representative	Graphics, education on process
	Persons with disability	The number of disabled person (TBD)	Official language and/or sign language	Written information, radio and/or face-to-face with competent person on sign language if possible	Accessibility i.e., providing transportation
	Other groups	The number of person (TBD)	Official language	Written information, radio Visit at their own places	Graphics, education on process

7.1.3. Stakeholder Engagement Plan

The Stakeholder Engagement Plan (SEP) is a control mechanism that ensures the implementation of key principles during the sub-project. The engagement activities will be scheduled in a manner to ensure maximum involvement of relevant stakeholders. To maximize stakeholder engagement, it prevents disruption of local stakeholders' daily work and regulates the timing and number of engagement activities. Accordingly, recording the findings and feedback together in accordance with all engagement activities, sharing them with the responsible parties, and following the process are essential. Also, engagement activities need to be culturally appropriate, provided equal access to relevant stakeholders, and enable their feedback. Ultimately, all engagement activities are in accordance with the sub-project-specific SEP schedule.

The SEP will be disclosed by ILBANK, and Gölbaşı Municipality, and Contractor in consultation with the stakeholders on potential benefits of the planned Project and the potential adverse impacts and associated mitigation measures through appropriate methods. The guidance of WB's OP 4.01 and WB's 2010 Policy on Access to Information will be followed for all disclosure attempts. Detailed engagement plan for the sub-project is given in Table 7-3.

Table 7-3. Stakeholder Engagement Program During the Construction and Operation Phase

Stakeholder	Purpose of Engagement	Documents/Materials to be Used for Engagement	Engagement Method	Location	Responsible Party	Timetable for Implementation
All stakeholders	<ul style="list-style-type: none"> • Disclosure of full Project information package 	<ul style="list-style-type: none"> • Full Project information package 	<ul style="list-style-type: none"> • ILBANK Website • Gölbaşı Municipality website • Information boards at local mukhtar offices and project site 	<ul style="list-style-type: none"> • Gölbaşı Municipality website • Information boards at local mukhtar offices and project site 	<ul style="list-style-type: none"> • ILBANK • Contractor • Project Implementation Unit (PIU) 	<ul style="list-style-type: none"> • Prior to the commencement of any construction activities • In case revision throughout construction and operation period
Related central and local governmental agencies	<ul style="list-style-type: none"> • Up-to-date information for disclosure on the sub-project • Consultation on permitting, environmental, occupational issues and • Community management, • Emergency preparedness and response collaboration 	<ul style="list-style-type: none"> • Project documentation as required by the authorities 	<ul style="list-style-type: none"> • Face to face meetings • Email correspondence or other means 	<ul style="list-style-type: none"> • The municipality building and/or relevant stakeholders' own places 	<ul style="list-style-type: none"> • PIU • Community Liaison Officer (CLO) (Gölbaşı Municipality & Contractor) • Supervision Consultant 	<ul style="list-style-type: none"> • Before the start of construction activities (at least 15 days) • As required throughout the construction and operation phases
Headmen (mukhtars)	<ul style="list-style-type: none"> • Deliver all aspects of sub-project-related information to include project timeline and conditions, E&S impacts and mitigations 	<ul style="list-style-type: none"> • Stakeholder engagement meeting announcements • Project presentation document and Brochures covering information on the communication channels • Consultation and grievance forms (Open & Close-Out) 	<ul style="list-style-type: none"> • Periodic and needed face to face meetings • Grievance Mechanism • Review of grievances on an appropriate basis. 	<ul style="list-style-type: none"> • Municipality building and/or headmen offices 	<ul style="list-style-type: none"> • Contractor • PIU • Supervision Consultant 	<ul style="list-style-type: none"> • At least 15 days before the sub-project start • The monthly basis for the construction phase • The quarterly basis for the operation phase

Stakeholder	Purpose of Engagement	Documents/Materials to be Used for Engagement	Engagement Method	Location	Responsible Party	Timetable for Implementation
	<ul style="list-style-type: none"> Assess complaints and feedback from stakeholders 					<ul style="list-style-type: none"> Grievances will be assessed immediately, and installed grievance boxes will be checked weekly during project phases Anytime as needed
Local communities; Land Owners / Users/Renters/Informal Users including vulnerable groups/PAP:	<ul style="list-style-type: none"> Deliver all aspects of Project-related information to include project timeline and conditions, E&S impacts and mitigations. Assess complaints and feedback from stakeholders 	<ul style="list-style-type: none"> Project information, E&S Expropriation process/issues based on specific stakeholder groups in a suitable and understandable language/format 	<ul style="list-style-type: none"> Non-technical meetings-disclosure Face to face meetings Focus group discussions/ separate informative meetings for land issues 	<ul style="list-style-type: none"> Municipality building and/or relevant stakeholders' own places 	<ul style="list-style-type: none"> Contractor PIU Supervision Consultant 	<ul style="list-style-type: none"> At least 15 days before the sub-project start The monthly basis for the construction phase The quarterly basis for the operation phase Grievances will be assessed immediately, and installed grievance boxes will be checked weekly during project phases Anytime as needed

Stakeholder	Purpose of Engagement	Documents/Materials to be Used for Engagement	Engagement Method	Location	Responsible Party	Timetable for Implementation
Local businesses	<ul style="list-style-type: none"> • Deliver information regarding requirements and opportunities of local procurement and service provision • Disclose information on Project, E&S aspects and associated impacts of which related to construction / operation activities 	<ul style="list-style-type: none"> • Particular information on required goods and services • Project information, E&S, construction / operation impacts and associated mitigation measures. • Grievance Management 	<ul style="list-style-type: none"> • Face to face meetings • Email correspondence • Phone calls 	<ul style="list-style-type: none"> • Municipality building and/or at the relevant stakeholders' own places 	<ul style="list-style-type: none"> • Contractor • PIU • Supervision Consultant 	<ul style="list-style-type: none"> • At least 15 days before the sub-project start • As required for construction impacts issues and operation period
Local NGOs	<ul style="list-style-type: none"> • Inform on updated current Project status, associated project activities, potential E&S impacts of which depending on Project phase, Project E&S Management System (ESMS) 	<ul style="list-style-type: none"> • E&S issues • Particularly prepared documentation/materials as a response to concerns on the sub-project 	<ul style="list-style-type: none"> • Face to face meetings • Email correspondence • Phone calls 	<ul style="list-style-type: none"> • Municipality building and/or at the relevant stakeholders' own places 	<ul style="list-style-type: none"> • PIU • Contractor • Supervision Consultant 	<ul style="list-style-type: none"> • The quarterly basis for the construction and operation phase • Anytime as needed

Stakeholder	Purpose of Engagement	Documents/Materials to be Used for Engagement	Engagement Method	Location	Responsible Party	Timetable for Implementation
	including community HS management and emergency preparedness issues					
Regional, national and international NGOs and; universities	<ul style="list-style-type: none"> As a response to concerns on the sub-project 	<ul style="list-style-type: none"> Particularly prepared documentation/materials as a response to concerns on the sub-project 	<ul style="list-style-type: none"> Face to face meetings Email correspondence Phone calls Online meetings 	<ul style="list-style-type: none"> Municipality building and/or at the relevant stakeholders' own places 	<ul style="list-style-type: none"> PIU Supervision Consultant 	Anytime as needed
Media	<ul style="list-style-type: none"> Deliver Project-related information to further parties in interest in an appropriate manner 	<ul style="list-style-type: none"> Visual materials/advertisements on sub-project-related information (may be particularly prepared in consideration to any public concern on the sub-project) Video/audio records 	<ul style="list-style-type: none"> Visual materials/advertisements to be published by local / national media agencies 	<ul style="list-style-type: none"> Media 	<ul style="list-style-type: none"> PIU 	Anytime as needed
Internal stakeholders (including own workers and indirect (contracted) employees)	<ul style="list-style-type: none"> Deliver information on the sub-project, working conditions and worker management including worker 	<ul style="list-style-type: none"> Employment contracts Through selected worker representatives H&S-related announcements GRM forms and guidance Training documents/materials (i.e., presentations) 	<ul style="list-style-type: none"> Communicating relevant written documentation with the sub-project employees Induction and orientation trainings 	<ul style="list-style-type: none"> Project site 	<ul style="list-style-type: none"> PIU Contractor 	At the time of recruitment
			<ul style="list-style-type: none"> Toolbox trainings 	<ul style="list-style-type: none"> Project site 		Daily before start of each shift during the

Stakeholder	Purpose of Engagement	Documents/Materials to be Used for Engagement	Engagement Method	Location	Responsible Party	Timetable for Implementation
	rights and OHS management addressed in the Project-specific E&S policy and other relevant ESMS documentation					construction / operation phases
	<ul style="list-style-type: none"> Ensure that SEP covering GRM is efficiently implemented 		<ul style="list-style-type: none"> H&S Committee Meetings 	<ul style="list-style-type: none"> Project site 		Monthly as periodically and anytime as needed

7.1.4.Roles and Responsibilities

Gölbaşı Municipality and Contractor will implement the SEP activities during the construction and operation phases of the sub-project. The planned organizational structure of the Team is presented in Table 7-4

Table 7-4. Responsibilities of Key Actors/Stakeholders in SEP Implementation

Actor/Stakeholders	Responsibilities
Gölbaşı Municipality	SEP Management; Stakeholder engagement activities; Establishment of Grievance Mechanism; Management or resolution of Grievances resolution; Consultation on specific SEP activities.
ILBANK	Monitoring and supervising the process of SEP implementation; Reporting the progress of SEP implementation to WB every 6 months.
Contractor/Subcontractor(s)	Taking part of in SEP activities; Reporting of issues to Gölbaşı Municipality related to stakeholder engagement; Grievance management and resolution; Resolution of grievances issues resulting from construction activities with collaboration and under the direction of Gölbaşı Municipality; Informing Gölbaşı Municipality on construction activities (such as road closures and service interruptions); Internal Reporting to Gölbaşı Municipality on SEP implementation.
Supervision Consultant	Guide public participation and announcement requirements; Provide necessary information to Gölbaşı Municipality; Review GM and complaints to Gölbaşı Municipality.
WB	Audit the Gölbaşı Municipality's compliance with the provisions set out in the SEP managed by the Municipality during the construction and operation phase via the Project Progress Reports; Visit project sites to conduct its own monitoring at certain intervals or when necessary.

7.1.5.Grievance Mechanism

Gölbaşı Municipality will establish a Grievance Mechanism (GM) to receive, resolve, and follow the concerns and complaints of the sub-project affected communities. All grievances will be effectively received, recorded, and responded to within a predetermined timeline and based on their contents.

At the earliest convenience, the stakeholders will have access to Gölbaşı Municipality PIU and Contractor dedicated CLOs for responses to responses to grievance. Stakeholders will be informed on the Satisfactory responses to the grievances and corrective activities. The GM for the stakeholders will be operated according to the following procedure;

1. Following tools will be used so that all stakeholders can be informed regarding the

Sub-Project's GM process:

- Web page;
 - Email address;
 - Public meetings;
 - Telephone;
 - Frequently Asked Questions (Brochure, web page, bulletin, etc.).
2. Grievances can be submitted by the channels outlined below:
 - Telephone (Call Center and units) : 0312 485 55 55
 - Personal visit to Gölbaşı Municipality and Contractor head office/branches
 - Grievance boxes (installed at the Gölbaşı Municipality Units / Contractor)
 - Relevant public administrations (district governorship, municipality, headmen)
 - Email: (info@ankaragolbasi.bel.tr)
 - Meetings
 - Staff and local communication desk of Gölbaşı Municipality / Contractor
 - By written petition to Gölbaşı Municipality / Contractor
 - During site visits and miscellaneous
 3. All the submitted grievances are collected at the GRM Section of PIU Department.
 4. The submitted grievances are recorded in databases by CLOs of PIU and Contractor.
 5. PIU and Contractor CLOs or any contact person who received the grievance confirm the grievance reception via phone and/or email within 2 days.
 6. The response to the relevant grievance will be drafted by CLOs of PIU / Contractor and approved by Project Managements.
 7. After responding to the relevant grievance, necessary revisions will be made on the Grievance Form with respect to the result of GM process which will be communicated with relevant Complainant within 10 working days. The required actions for valid grievances will be taken within 15 working days. If applicant accepts the resolution within 30 days, the submitted grievance is marked as closed. If the applicant does not sign-off Complaint Close-Out Form due to insufficient satisfaction, a meeting will be organized by the PIU management on relevant complaint and if necessary, with the participation of Contractor. The complainant can participate this meeting to submit his/her Project-related concern face to face to the management. The aim of this meeting is to find alternative solutions of which both parties agree with.
 8. All the grievances will be monitored by recording them via the monitoring and evaluation system which will be established within the scope of GM.
 9. Regarding grievances received by Contractor; the grievances which are within the scope of Contractor responsibility will be handled by itself and reporting to the PIU during monitoring activities. The grievances within the scope of Gölbaşı

Municipality responsibility will be immediately communicated with PIU by Contractor and handled by the PIU accordingly. Contractor CLO is responsible for recording and tracking grievances.

10. If the complaint cannot be resolved with the existing process, applicants can always apply to relevant legal institutions. Such institutions can be summarized as follow:

- Civil Courts of First Instance
- Administrative Courts
- Commercial Courts of First Instance
- Labor Courts, and Ombudsman (<https://ebasvuru.ombudsman.gov.tr/>)

During construction and operational activities, the GRM described above shall continue to be driven by stakeholders' views, making this procedure accessible to all affected stakeholders. Requests that require urgent remedy and/or support shall be responded to and given support within the same day. All outstanding grievances/requests shall be recorded within two business days, reviewed and assessed within ten business days, and concluded not later than 15 business days. Corrective actions shall be taken to resolve the grievance. GM Flow Chart is given in Table 7-5.

Table 7-5. Grievance Mechanism Flowchart

Stage of GM	Required Action
Grievance submission	Receiving the grievance by any above-mentioned communication channel. (Following to receive more sensitive grievances i.e. SEA/SH, child abuse or abuse, necessary action will be taken within 48 hours. For such cases at the workplaces, the complaint will be directed by the GM focal point (based in ILBANK headquarter) to relevant legal authorities/service providers such as Ministry of Family and Social Services and Prosecutors Office.)
Grievance registration	Grievance Form and Grievance Register Table are used during registration process. After grievance registration, feedback will be sent to the Complainant for the purpose of confirmation within two (2) days. Anonymous registration will be conducted if a Complainant requests that complaint of whom is handled anonymously.
Grievance assessment	Grievances are assessed within 10 working days with the clarification of the fact that relevant grievance is compliance with admissibility criteria. The Complainant will be informed appropriately in case of invalid grievances.
Responses to the grievances	According to the grievance type, consultation with stakeholders in question can be conducted on site. After grievance assessment, grievance will be responded appropriately via previously mentioned communication channels. Application to ILBANK or Court of First Instance is also available for Complainants if a resolution cannot be figured out for whose grievances.
Grievance closure	As long as alternative agreement is not conducted, grievance of Complainant is closed within fifteen (15) Business Days as of submission date and the Grievance Close Out Form is filled accordingly. In the case of grievances cannot be closed within fifteen (15) Business Days, it is ensured that well documented mitigatory circumstances related to which are reported.

Stage of GM	Required Action
	Regarding the anonymous grievances, outcome of GRM process and associated taken actions should be declared on Gölbaşı Municipality website for the purpose of informing relevant Complainants.
In the case of unresolved grievances	ILBANK monitors GM process according to following outline: -Confirmation of grievance submission -Assessment of grievance by the Gölbaşı Municipality and information to ILBANK accordingly -Communication of grievance response to Complainant by the Gölbaşı Municipality which is monitored by ILBANK (The timeframe for response at this level is thirty (30) days.) -Application to Court of First Instance by Complainants in case of unresolved grievances
Reporting	The grievances will be analyzed quarterly by Gölbaşı Municipality PIU considering the frequencies, types and resolution methods of which. By doing this, for instance, complaints submitted by majority of Contractor/Subcontractor(s) and/or those originated from certain works can be determined in a better way. The outcomes are reported to the PIU management by CLOs
Right to Appeal	If the complaint cannot be resolved with the existing process, applicants can always apply to relevant legal institutions. Such institutions can be summarized as follow: • Civil Courts of First Instance • Administrative Courts • Commercial Courts of First Instance • Labour Courts, and Ombudsman (https://ebasvuru.ombudsman.gov.tr/)

7.1.6. Monitoring and Reporting

Periodically (at least once every 6 months) review and update of the SEP will be conducted, as necessary, during the stakeholder consultation as required within the scope of SEP implementation.

Gölbaşı Municipality PIU and the Contractor CLO will record all incoming corporate grievance/comment databases.

Gölbaşı Municipality PIU will assess the number and nature of grievances/comments (if any) quarterly and their effectiveness to address grievances/comments based on the number and percentage of closed grievances. The monitoring framework is described in Table 7-6.

Table 7-6. SEP Monitoring Framework

Parameter	Key Performance Indicator	Phase	Frequency	Responsible Party
Stakeholder engagement process	•Number of meetings (e.g. public consultation, meeting with authorities, focus group meetings, in-depth meetings, etc.)	Construction	Quarterly	- To be assigned by Gölbaşı Municipality PIU and Contractor
		Operation	Semi-annually in the first two	- To be assigned by Gölbaşı

Parameter	Key Performance Indicator	Phase	Frequency	Responsible Party
	<ul style="list-style-type: none"> •Number of engaged people •Number of the visits to the settlements impacted by the sub-project activities within a timeframe 		years; Annually afterwards	Municipality PIU and Contractor
Public GM	<ul style="list-style-type: none"> • Number of grievances/comments received during per consultation • Types of the grievances/comments (community HS, employment, local procurement etc.) • Timeframes for response to each grievance • The number of open or closed grievances • Number of invalid or in progress grievances 	Construction	Quarterly	- To be assigned by Gölbaşı Municipality PIU and Contractor
		Operation	Semi-annually in the first two years; Annually afterwards	- To be assigned by Gölbaşı Municipality PIU and Contractor
Workers' GM	<ul style="list-style-type: none"> • Number of grievances/comments received by own workers • Number of grievances/comments received by indirect workers • Types of the grievances/comments regarding worker management and working conditions (e.g. Worker rights, OHS, etc.) • Timeframes for response to each grievance • The number of open or closed grievances • Number of invalid or in progress grievances 	Construction	Monthly	- To be assigned by Gölbaşı Municipality PIU and Contractor
		Operation	Semi-annually in the first two years; Annually afterwards	- To be assigned by Gölbaşı Municipality PIU and Contractor

8. MONITORING AND REPORTING

Reporting processes that should be put into action during the implementation of the project and the requirements are presented in Table 8-1.

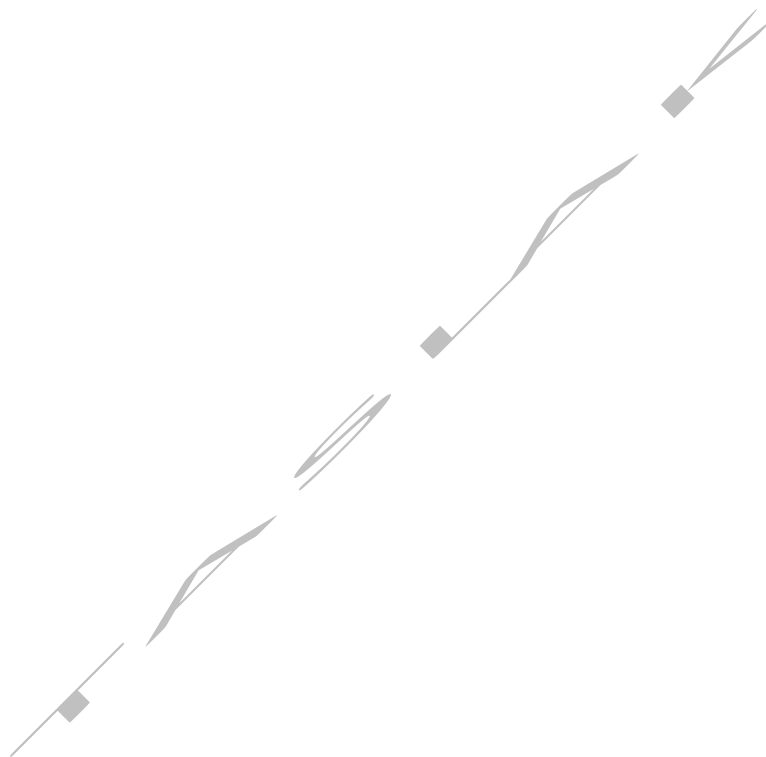
Table 8-1 Reporting Process Requirements and Distribution of Roles

Responsible Party	Reporting Process Requirements
Contractors	<ul style="list-style-type: none"> • Prepare and submit monthly and quarterly ESMP Monitoring Reports (including BMP and CHMP) for approval of Gölbaşı Municipality • In case of contingencies such as environmental, social and labor issues or accident/incident, the contractor will inform the Project Owner within 24 hours, and the Project Owner will inform ILBANK, and ILBANK will inform the WB within three working days. A report on the root causes of the incident and the corrective actions to be taken will be submitted to ILBANK and the WB within 30 days.
Construction Supervision Consultants	<ul style="list-style-type: none"> • Audit Contractor on behalf of Project Owner and review and confirm Contractors monthly and quarterly ESMP Monitoring Reports (including BMP and CHMP). • Prepare bi-annual monitoring reports during the construction phase and annual reports during the operation phase of the sub-project.
Project Implementation Unit (Project Owner/Gölbaşı Municipality)	<ul style="list-style-type: none"> • Consolidate and present ESMP Monitoring Reports to ILBANK semi-annually together with Grievance Register
ILBANK	<ul style="list-style-type: none"> • ILBANK will submit ESMP Monitoring Reports every six months to WB.

9. CONCLUSION

This ESMP identifies the potential impacts that may arise during construction and operation phases of the sub-project and proposed appropriate mitigation measures to effectively address these impacts. In conclusion, the sub-project can be carried out in an environmentally and socially sustainable manner on full implementation of this ESMP as there are no likely major or irreversible negative impacts.

As part of the requirements stipulated by the Lenders, ESMP is to be publicly disclosed by the Project Owner's and the Lender's website. ESMP will be reviewed, updated, and approved if necessary. For each approved updated version of this ESMP, the Project Owner will be responsible for the disclosure of the updated documents.



10. APPENDICES

Annex 1: Official Decision of Ankara Governorship Provincial Directorate of Environmental and Urbanization for EIA Not Required

		
T.C. ÇEVRE ve ŞEHİRCİLİK BAKANLIĞI Çevresel Etki Değerlendirmesi, İzin ve Denetim Genel Müdürlüğü		
T.C. ANKARA VALİLİĞİ ÇEVRE ve ŞEHİRCİLİK İL MÜDÜRLÜĞÜ		
Karar Tarihi : 05-06-2020 Karar No : 53430385 220-02 E-2020276		
ÇEVRESEL ETKİ DEĞERLENDİRME BELGESİ		
25.11.2014 tarih ve 29186 sayılı Resmi Gazete'de yayımlanarak yürürlüğe giren Çevresel Etki Değerlendirmesi Yönetmeliği'nin Ek-II listesinde yer alan 'GÖKÇEHÜYÜK GÜNEŞ ENERJİ SANTRALİ (4,889MWe Lisanssız)' projesi ile ilgili olarak inceleme-değerlendirme yapılmış ve Proje Tanıtım Dosyasında çevresel etkilere karşı alınması öngörülen önlemler yeterli görülmüştür. Ayrıca ÇED Raporu hazırlanmasına gerek bulunmadığı tespit edilmiş olup, söz konusu projeye ÇED Yönetmeliğinin 17. Maddesi gereğince Valiliğimizce "Çevresel Etki Değerlendirmesi Gerekli Değildir" kararı verilmiştir.		
		 Arcunhan DOĞRUK Vali a. Vali Yardımcısı
oje Sahibi : GÖLBAŞI BELEDİYESİ BAŞKANLIĞI oje Yeri : Ankara İli, Gölbaşı İlçesi, Gökçehüyük (Çerkezhöyük) Mahallesi 125036 Ada 21 Parsel kapasite : Proje Kapasitesi:4,889MWe. Proje alanı: 9,21 ha		

Annex 2: Official Decision of Ankara Governorship Provincial Directorate of Environmental and Urbanization



T.C.
ANKARA VALİLİĞİ
Çevre ve Şehircilik İl Müdürlüğü

Sayı : 73209981-000-E.35857
Konu : Gölbaşı ÖÇKB, Gökçe Höyük
Mahallesi 125036 Ada 21 Parsel GES
Kurum Görüşü

16.04.2020

GÖLBAŞI BELEDİYE BAŞKANLIĞINA

İlgi : 01.04.2020 tarihli ve 56293735- 7759 sayılı yazınız.

Ankara İli, Gölbaşı İlçesi, Gökçe Höyük Mahallesi, mülkiyeti Belediye Başkanlığınıza ait 125036 ada 21 parselde Güneş Enerji Santrali kurulmasına yönelik nazım ve uygulama imar planı yapılması planlanmakta olup, bu kapsamda söz konusu alanın 2863 sayılı Kültür ve Tabiat Varlıklarını Koruma Kanunu kapsamında doğal sit alanı, tescilli tabiat varlığı ve ilgili diğer kanunlar kapsamında plan çalışmalarını etkileyecek unsurların bulunup bulunmadığı konularına ilişkin kurum görüşümüz ilgede kayıtlı yazınız ile istenilmektedir.

Konua ilişkin olarak yapılan incelemede;

- Söz konusu parselin, 22.10.1990 tarih ve 90/1117 sayılı Bakanlar Kurulu Kararı ile ilan edilen Gölbaşı Özel Çevre Koruma Bölgesi sınırları içerisinde yer aldığı,

- 2863 sayılı Kültür ve Tabiat Varlıklarını Koruma Kanunu'na göre doğal sit alanı olarak tescilli olmadığı ve alanda tescilli tabiat varlığı bulunmadığı,

- Bakanlık Makamının 16.03.2020 tarih ve 68425 sayılı Olur'u ile onaylanan ve henüz kesinleşmeyen Gölbaşı Özel Çevre Koruma Bölgesine ait 1/50000 ölçekli Çevre Düzeni Planı Değişikliğinde Gökçe Höyük Mahallesi 125036 ada 21 nolu parselin "Tarım Alanı" kullanımında kaldığı, plan hükümlerinde;

"6.3.3.1. Tarım Alanları

6.3.3.1.1. 5403 sayılı "Toprak Koruma ve Arazi Kullanımı Kanunu" ve 3803 sayılı "Sulama Alanlarında Arazi Düzenlenmesine Dair Tarım Reformu Kanunu" kapsamında kalan tarım arazileridir. Tarım arazilerinin tarımsal üretim amaçlı korunması esastır.

6.3.3.1.2. Tarım arazilerinde yapılacak ifraz işlemlerinde 5403 sayılı Kanun hükümlerine uyulacak olup, tapu vasıfları değiştirilemez. İfraz yapılmaksızın mevcut parselde yapı yapılması halinde parselin tapu kadastro veya tapulama haritasında bulunan bir yola cephesinin olması zorunludur.

6.3.3.1.3. Bu alanlarda mülga Gıda, Tarım ve Hayvancılık İl Müdürlüğü'nün 17.12.2015 tarihli ve 33134 sayılı görüşü doğrultusunda, Müdürlüğün iznine bağlı olarak entegre tesis niteliğinde olmayan tarımsal amaçlı yapılar ile çiftçinin barınması amaçlı yapılar yapılabilir. Tarımsal amaçlı yapılar amacı dışında kullanılamaz. Tesis sahipleriince, İlçe Belediyesine, bu tesislerin başka bir amaçla kullanılamayacağına dair yazılı taahhüt verilmesi zorunludur.

Not: 5070 sayılı Elektronik İmza Kanunu gereği bu belge elektronik imza ile imzalanmıştır.

Evrak Doğrulama Kodu: 3DMNTKS Evrak Takip Adresi: <https://www.turkiye.gov.tr/cevre-ve-sehircilik-bakanligi>
Eskişehir Yolu Bul. No:146 ODTÜ Karşısı 06520 Çankaya- Ankara
Tel:0.312.219 77 91 (5 Hat) Fax:0.312.219 71 28
KEP: ankaracevrevesehircilik@ts01.kep.tr

Bilgi için: Onur ÇELİK
Şehir Plancısı





T.C.
ANKARA VALİLİĞİ
Çevre ve Şehircilik İl Müdürlüğü

Sayı : 73209981-000-E.35857
Konu : Gölbaşı ÖÇKB, Gökçe Höyük
Mahallesi 125036 Ada 21 Parsel GES
Kurum Görüşü

16.04.2020

6.3.3.1.4. Bu alanlarda, tarımsal amaçlı yapı yapılması durumunda E:0.05 olacaktır. Tarımsal amaçlı yapı için yapı yüksekliği tesisin özelliğine göre Gıda, Tarım ve Hayvancılık İl Müdürlüğü görüşü doğrultusunda belirlenecektir. Emsal alana dahil olmak üzere tabanı 75 m^2 ve toplam yapı alanı 150 m^2 'yi aşmayan Yençok:6,50 m. olan çiftçinin barınmasına yönelik yapı yapılabilir. Bir parsel üzerinde müstemilat ve tarımsal amaçlı yapılar hariç, birden fazla yapı yapılamaz. Tarımsal amaçlı yapılar, parselin cephe aldığı yoldan en az 15 metre, komşu parsellerden ise en az 5 metre çekme mesafesi bırakılarak yapılabilir. Yapıların Hassas A sınırlarına yaklaşma mesafesi ise en az 50 metre olacaktır.

6.3.3.1.5. Tarımsal alanlarında, kadastral yola cephesi bulunan parsellerde yapı ruhsatı düzenlenir. Tarım alanlarında yer alan kadastral yollar ihdas edilemez.

6.3.3.1.6. Bu plan onayından önce yürürlükteki mevzuat uyarınca inşaat ruhsatı veya yapı kullanma izni verilmiş olan tarımsal amaçlı yapılara ilişkin haklar saklıdır.

6.3.3.1.7. Botaş boru hattı, enerji nakil hattı yada ana isale hattının geçtiği parsellerde ilgili kurumun görüşü yapılmadan uygulama yapılamaz.

6.3.3.1.8. Tarım alanları kapsamında kalan mera vasıflı parsellerde 4342 sayılı Mera Kanunu hükümleri geçerlidir." hükümlerinin yer aldığı hususları tespit edilmiştir.

Bu kapsamda anılan plan hükümleri doğrultusunda hazırlanacak imar planı teklifinin, Bakanlığımızın 03.01.2017 tarih ve 2017/01 sayılı Korunan Alanlarda Yapılacak İmar Planı Teklifi Usul ve Esaslarına Dair Genelgesi uyarınca hazırlanarak Valiliğimize (Çevre ve Şehircilik İl Müdürlüğü) sunulması hususunda;

Gereğini ve bilgilerinizi rica ederim.

Ali Vedat ÇİFTÇİ
Vali a.
Çevre ve Şehircilik İl Müdürü

Annex 3: Official Decision of Ankara Agriculture and Forestry Directorate



T.C.
ANKARA VALİLİĞİ
İl Tarım ve Orman Müdürlüğü

Sayı : 94695246-230.04.02-E.1116339
Konu : Eksik Evrak.

10.04.2020

GÖLBAŞI BELEDİYE BAŞKANLIĞINA

İlgi : 03.04.2020 tarihli ve 53211733-7888 sayılı yazınız.

İlgi'de kayıtlı yazınız konusu, Ankara İli, Gölbaşı İlçesi, Gökçe Höyük Mahallesi'nde bulunan 125036 ada 21 parsel numarası ile toplam 9,2164 hektar yüzölçümüne sahip alanda yapılması planlanan "**Lisanssız Güneş Enerjisinden Elektrik Üretim Santrali**" kurulması amaçlı imar planı çalışması talebine ilişkin 5403 sayılı Kanun kapsamında tarım dışı kullanım izni alınması hususunda Müdürlüğümüz görüşü talep edilmektedir.

09.12.2017 tarih ve 30265 sayılı Resmi Gazetede yayımlanarak yürürlüğe giren Tarım Arazilerinin Korunması, Kullanılması ve Planlanmasına Dair Yönetmeliğin 7.maddesinin 3.fıkrası gereğince, söz konusu İl Müdürlüğümüz teknik elemanlarınca yerinde incelenmesi sonucu Tarımsal Etüt Raporu düzenlenmiştir.

Söz konusu talebe ilişkin 5403 Sayılı Toprak Koruma ve Arazi Kullanımı Kanunu kapsamında nihai görüşümüzün verilebilmesi için; 125036 ada 21 parsel numaralı taşınmazda ait TEDAŞ'tan alınacak Çağrı Mektubu ile söz konusu taşınmazda yer alan proje alanında yapılacak olan Lisanssız Güneş Enerjisinden Elektrik Üretim Santrallerinin, kaçar kWe'lik büyüklükte ve kaç adet olacağı, her bir santralin, taşınmazların hangi bölgesine kurulacağını belirten ve bu santrallerin kurulacağı alanlarının köşe koordinatlarının 1/5.000' lik ölçekli 2 (iki) adet onaylı harita üzerine çizilecek vaziyet planında gösterilmesi ve bu çalışmanın NCZ formatında CD'sinin hazırlanması gerekmektedir.

Yukarıda belirtilen bilgi ve belgelerin hazırlanarak müracaatınızın, ilgili belediye veya plan yapma yetkisine sahip kuruluş tarafından yapılması gerekmektedir.

Bilgilerinizi ve gereğini rica ederim.

Ali YALÇIN
İl Müdürü a.
İl Müdürü Yardımcısı

Not: 5070 sayılı Elektronik İmza Kanunu gereği bu belge elektronik imza ile imzalanmıştır.

Evrak Doğrulama Kodu : UZZBQUUJ Evrak Takip Adresi : <https://www.turkiye.gov.tr/tarim-ve-orman-bakanligi-ebys>
Gayret Mahallesi Şehit Cem Ersever Cad. No: 14 Yenimahalle-ANKARA
Tel: (0312) 344 59 50 Faks: (0312) 315 60 07
E-Posta: ankara@tarim.gov.tr Kep: ankara@gtbb.bs01.kep.tr

Bilgi için: Selin BÜYÜKEKE
Şehir Plancısı



Annex 4: Official Decision of Ministry of Culture and Tourism/ Investments and Enterprises General Directorate


T.C.
KÜLTÜR VE TURİZM BAKANLIĞI
Yatırım ve İşletmeler Genel Müdürlüğü

PİYASA

Sayı : 35698499-308.99[308.99;005]-E.304882

14.04.2020

Konu : Ankara İli, Gölbaşı İlçesi,
Gökçeşhüyük Mahallesi, 125036/21
parselde GES amaçlı imar planı görüş

DAĞITIM YERLERİNE

İlgili : Gölbaşı Belediye Başkanlığının 02.04.2020 tarihli ve 56293735-E.7826 sayılı yazısı.

İlgili yazı ile Ankara İli, Gölbaşı İlçesi, Gökçeşhüyük Mahallesi'nde bulunan 125036 ada 21 parsel numaralı taşınmaza ilişkin Güneş Enerjisi Santrali (GES) amaçlı imar planı yapılmasına esas olmak üzere 2634 Sayılı Turizmi Teşvik Kanunu kapsamında Genel Müdürlüğümüz görüşünün iletilmesi istenilmektedir.

Ankara İli, Gölbaşı İlçesi, Gökçeşhüyük Mahallesi'ndeki planlamaya konu edilen alan 2634 sayılı Turizmi Teşvik Kanunu uyarınca ilan edilmiş herhangi bir Turizm Merkezi veya Kültür ve Turizm Koruma ve Gelişim Bölgesi içinde kalmamakta olup, bahsedilen alanda Genel Müdürlüğümüzce yürütülen bir çalışma bulunmamaktadır.

Bilgilerinizi rica ederim.

Şemur ALDEMİR DOĞAN
Bakan a.
Genel Müdür V.

Dağıtım:

Gereği:

Gölbaşı Belediye Başkanlığına
(İmar Ve Şehircilik Müdürlüğü)
ANKARA

Bilgi:

ENERJİ PİYASASI DÜZENLEME
KURUMU BAŞKANLIĞINA

Not: 5070 sayılı Elektronik İmza Kanunu gereği bu belge elektronik imza ile imzalanmıştır.

İsmet İnönü Bulvarı No:32 Emek Çankaya/ANKARA
Telefon No : (312) 470 80 00 Belgegeçer No : (312) 212 83 94
e-posta : ygplanlama@kultur.gov.tr internet adresi : www.kultur.gov.tr

Bilgi için: Zeynep Fikran YENİCE
Kültür ve Turizm Uzmanı
Telefon No: (312) 470 75 37



Annex 5: Official Decision of Ministry of Culture and Tourism/ Cultural Assets and Museums General Directorate


T.C.
KÜLTÜR VE TURİZM BAKANLIĞI
Kültür Varlıkları ve Müzeler Genel Müdürlüğü
Ankara Kültür Varlıklarını Koruma Bölge Kurulu Müdürlüğü

PATAAA

Sayı : 53970621-165.02.02-E.315207

22.04.2020

Konu : Ankara İli, Gölbaşı İlçesi, Gökçeşöyük
Mahallesi, 125036 Ada 21 Parselde
GES Kurulması hk. 06.14.408

GÖLBAŞI BELEDİYE BAŞKANLIĞINA

İlgi : 01.04.2020 tarihli ve 56293735-E.7802 sayılı yazınız.

Ankara ili, Gölbaşı ilçesi, Gökçeşöyük Mahallesi, 125036 ada, 21 parselde bulunan mülkiyeti Gölbaşı Belediyesine ait 92164,05 metrekare yüzölçümlü taşınmaz üzerine Güneş Enerji Santrali kurulmasına yönelik nazım ve uygulama imar planı yapılmasında Müdürlüğümüz mevzuatı açısından herhangi bir sakıncasının olup olmadığının bildirilmesine dair ilgede kayıtlı yazılarınız incelenmiştir.

Müdürlüğümüz arşiv kayıtlarında ve iletilen bilgi-belgelerden bahse konu taşınmaz üzerinde 2863 sayılı Kanun kapsamında korunması gerekli kültür varlığına rastlanılmamış olup Güneş Enerji Santrali kurulmasına yönelik nazım ve uygulama imar planı yapılmasında sakınca bulunmamaktadır.

Ancak söz konusu alanda yapılacak tarımsal faaliyetler ile inşai ve fiziki uygulamalar sırasında korunması gerekli herhangi bir kültür varlığına rastlanılması durumunda çalışmaların derhal durdurularak 2863 Sayılı Yasanın 4. Maddesi gereğince ilgili makamlara bildirilmesi gerekmektedir.

Bilgilerinizi ve gereğini arz/rica ederim.

Mustafa KAYMAK
Koruma Bölge Kurulu Müdürü


Not: 5070 sayılı Elektronik İmza Kanunu gereği bu belge elektronik imza ile imzalanmıştır.

Necatibey Mahallesi Konya Sokak No:46 Altındağ/Ankara
Belgegeçer:(0312) 310 43 41
e-posta: ankarakurul@kub.gov.tr


Bilgi için: Mustafa KAYMAK
Koruma Bölge Kurulu Müdürü
Telefon No: (312) 310 42 96



Annex 6: Official Decision of General Directorate of Highways 4th Regional Directorate



T.C.
KARAYOLLARI GENEL MÜDÜRLÜĞÜ
4. Bölge Müdürlüğü



Sayı : 77943329- 755.01 /E.90637
Konu : Gölbaşı İlçesi, Gökçeşeyh Mah.
125036/21 Parsel İmar Planı GES
Projesi

14.04.2020

İADELİ TAAHHÜTLÜDÜR

GÖLBAŞI BELEDİYE BAŞKANLIĞINA
(İmar ve Şehircilik Müdürlüğü)
G. O. P Mah. Sahil Cad. No:3 Gölbaşı / Ankara

İlgi: a) 01/04/2020 tarihli ve - 7768 sayılı yazınız.
b) 01/04/2020 tarihli ve - 7769 sayılı yazınız.

İlgi (a ve b) yazılarınız ile mülkiyeti Başkanlığınıza ait 92164.05 m² yüzölçümüne sahip Ankara İli, Gölbaşı İlçesi, Gökçeşeyh Mahallesi 125036 ada 21 parselde Güneş Enerji Santrali kurulmasına yönelik yönelik Nazım ve Uygulama İmar Planı planlandığı ve konuyla ilgili görüşümüz talep edilmiştir.

Söz konusu parselde herhangi bir kamulaştırma planımız bulunmamaktadır. Ancak Ankara-Niğde Otoyolu Km:10+000-12+000 arası yol güzergahının Parlama ve Işıdama etkisinin detaylı incelenmesi için *fotovoltaik güneş panellerinin teknik özelliklerinin, yerden yüksekliklerinin, panel düzeni detayının ve panel yerleşim açıları* gibi bilgilerin dijital ortamda sunulması *Yenilenebilir Enerji İşleri Genel Müdürlüğü Yenilenebilir Enerji Kaynakları Proje Geliştirme ve Takip Dairesinden* görüş alınması gerekmektedir.

Gölbaşı İlçesi, Gökçeşeyh Mah. 125036/21 Parsel İmar Planı GES Projesinin Ankara-Niğde Otoyolu güzergahına Parlama ve Işıdama etkisinin detaylı incelenerek Bölge Müdürlüğümüze bildirilmesi hususunda;

Gereğini bilgilerinize arz ederim.

Rıza MUCUKGİL
Bölge Müdürü a.
Bölge Müdür Yardımcısı


EK:
CD (1 Adet)

"Bu belge, güvenli elektronik imza ile imzalanmıştır."
<http://www.kgm.gov.tr> adresinden, "1a5567DE2F4" DYS No ve evrak tarihi ile erişebilirsiniz.
Zübeyde Hanım Mah. Yeni Etilik Cad. No 39 06110 Dikmen / ANKARA

Telefon No : 312 550 60 00	Faks : 0312 384 31 28	Bilgi İçin : Çetin Kaya
İnternet Adresi : www.kgm.gov.tr	KEP : kgm4belge@bso1.krp.tr	Firma Etkisi
İlgili Birim : Ankara-Niğde Otoyolu Kontrol Başmühendisi		Tel - Faks : 0312 4975000 / 5126-
		e-posta : b-cetin.kaya@kgm.gov.tr

1/1

Annex 7: Official Decision of Ankara Provincial Health Directorate

	
<p>Sayı : 80071876-129 Konu : Kurum Görüşü (GES)</p>	
<p>GÖLBAŞI BELEDİYE BAŞKANLIĞINA (İmar ve Şehircilik Müdürlüğü) Gölbaşı/ANKARA</p>	
<p>İlgi : 01.04.2020 tarih ve 7805 sayılı yazınız.</p>	
<p>İlgi yazınızda; İlimiz, Gölbaşı İlçesi, Gökçeşöyük Mahallesi, 125036 ada, 21 numaralı parsel üzerinde Güneş Enerji Santrali (GES) yapılmasının planlandığı belirtilerek, kurulması planlanan tesis için Kurum Görüşümüzün bildirilmesi istenmektedir.</p>	
<p>Söz konusu adreste kurulması planlanan Güneş Enerji Santrali (GES) arazisi ve çevresinde yaptığımız çalışmalarımız ve ilgili mevzuat hükümlerine göre, Müdürlüğümüz teknik personeli tarafından 17.04.2020 tarihinde yapılan inceleme sonucu düzenlenen rapor, yazımız ekinde gönderilmiştir.</p>	
<p>Bilgilerinizi ve gereğini rica ederim.</p>	
<p>e-imzalıdır. Dr. Bahattin İLTER Müdür a. Halk Sağlığı Hizmetleri Başkanı</p>	
<p>Ek: 1 Sayfa Rapor</p>	
<p>İl Sağlık Müdürlüğü Halk Sağlığı Hizmetleri Başkanlığı Çevre Sağlığı Birimi Hacıtepe Mahallesi, Talatpaşa Bulvarı, No:44, B Blok 1 Kat, Altındağ / ANKARA e-posta: durnus.yetkin@saglik.gov.tr / İnt. Adres: ankara.saglik.gov.tr</p>	
<p>Bilgi için: D.YETKİN Unvan: Kimya Mühendisi Telefon No: 0312-3994835</p>	



II Sağlık Müdürlüğü

RAPOR

İlimiz, Gölbaşı İlçesi, Gökçeşöyük 125036 ada, 21 numaralı parsel üzerinde kurulması planlanan Güneş Enerji Santrali (GES) hakkındaki Gölbaşı Belediye Başkanlığı'nın 01.04.2020 tarih ve E.7805 sayılı yazısı ve ekleri incelenmiştir. Bu doğrultuda, kurumsal görüşümüzün oluşturulması amacıyla 17.04.2020 tarihinde söz konusu arazi ve çevresinde mevzuatın verdiği yetki kapsamında inceleme ve değerlendirme yapılmıştır.

Buna göre;

- İlgili parselde Güneş Enerji Santrali (GES) kurulmak istendiği,
 - Söz konusu parselin kuzey sınırında sıfır yaklaşım mesafesinde yol, devamında tarımsal amaçlı tarım arazilerinin olduğu,
 - 21 numaralı parselin doğu ve güney sınırında tarımsal amaçlı tarlaların yer aldığı,
 - İlgili parselin kuzeydoğusunda yaklaşık 20 metre mesafede kooperatif evlerin bulunduğu,
 - Söz konusu parselin güneybatısında yaklaşık 1 km mesafede Gökçeşöyük Mahallesi'ne ait meskenlerin olduğu,
 - İlgili parselin batı sınırında sıfır yaklaşım mesafesinde Ankara-Niğde Otobanının geçtiği,
 - 21 numaralı parselin kuzeyden güneye hafif meyilli olduğu,
 - İlgili arazi üzerinde herhangi bir yerüstü su kaynağının bulunmadığı,
- Tarafımızdan yerinde yapılan inceleme ve değerlendirme sonucu tespit edilmiştir.

SONUÇ VE KANAAT:

- Güneş Enerji Santrali (GES) için seçilen arazinin çevresinin yeterli yükseklikte duvar veya tel örgü ile çevrilmesi,
- İşletmelerin büyüklüğüne veya kapasitesine bağlı olarak, çevre, toplum ve hayvan hayatı için tehlike arz etmeyecek şekilde gerekli önlemler alınarak, işletmeden çıkacak her türlü sıvı atığın toplanacağı, sızdırmayan, uygun derinlik ve büyüklükte "Lagım Mecrası İnşası Mükün Olmayan Yerlerde Yapılacak Çukurlara Ait Yönetmelik" hükümlerine göre fosseptik çukuru inşa edilmesi,
- Kurulacak olan işletmelerde yapılacak olan faaliyetin türüne göre çalışanları, sağlık ve güvenliklerini etkileyen bir veya birden fazla riske karşı korumak amacıyla "Kişisel Koruyucu Donanım Yönetmeliği" esas alınmak üzere Kişisel Koruyucu Donanım bulundurulması,
- İşletmelerin tasarımı, yapımı, işletimi, bakımı ve kullanımı aşamalarında, herhangi bir şekilde çıkan yangının, can ve mal kaybını en aza indirerek söndürülmesini sağlayacak yangın öncesinde ve sırasında alınacak tedbirleri belirten "Binaların Yangından Korunması Hakkında Yönetmelik" hükümlerine uyulması,
- İşletmelerde "İnsani Tüketim Amaçlı Sular Hakkında Yönetmelik" hükümleri uyarınca içme ve kullanma suyu temin edilmesi,
- Tesiste çıkabilecek bir yangın durumunda çevrede oluşabilecek zararların karşılanmasının ilgili işletme tarafından taahhüt edilmesi,

Karayolları Genel Müdürlüğü'nün olumlu görüşü ve yukarıda belirtilen şartlara uyulması kaydı ile 125036 ada, 21 numaralı parsel üzerinde Müdürlüğümüz görevleri yönünden Güneş Enerji Santrali (GES) kurulmasında sakınca bulunmadığı kanaatine varılmıştır. 17.04.2020

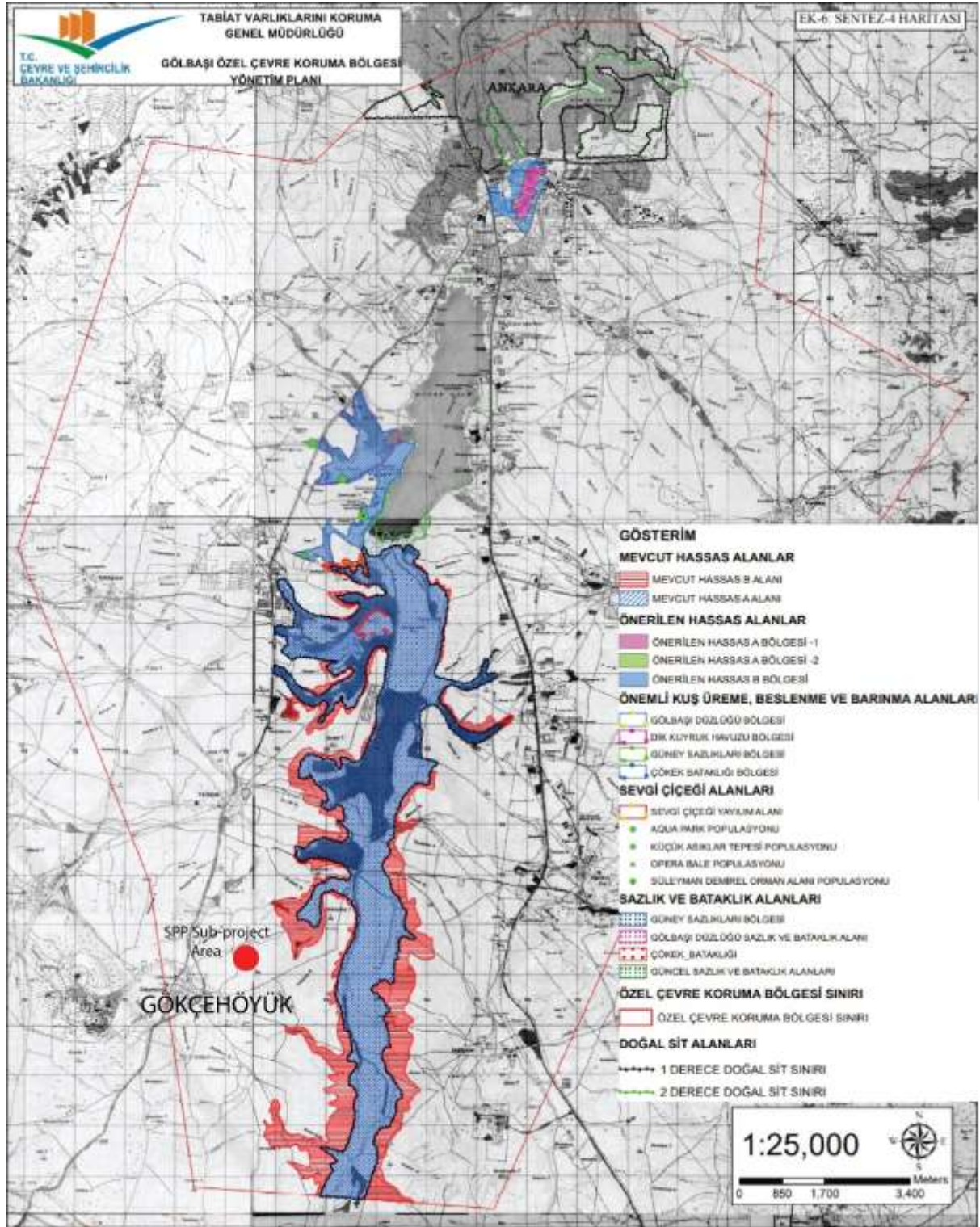
Niüfer ALTUN
Biyolog

Durmuş YETKİN
Kimya Mühendisi


II Sağlık Müdürlüğü Halk Sağlığı Hizmetleri Başkanlığı Çevre Sağlığı Birimi
Ticarettepe Mahallesi, Teletopra Bulvarı, No:44, B Blok 1 Kat, Altındağ / ANKARA
e-posta: durmus.yetkin@saglik.gov.tr / İm. Adresi: ankara.saglik.gov.tr

Bilgi için D.YETKİN
Unvan: Kimya Mühendisi
Telefon No: 0312-5046835

Annex 8: Gölbaşı SEPA's Sensitive Areas Map (MoEUCC, 2015)



Annex 9: Energy Market Regulatory Authority Expropriation Department



EPDK
T.C. ENERJİ PİYASASI
DÜZENLEME KURUMU

T.C.
ENERJİ PİYASASI DÜZENLEME KURUMU
Kamulaştırma Dairesi Başkanlığı

Sayı : 49675930-752.99
Konu : Kurum Görüşü (Lisanssız GES)

E.18549
08/04/2020

GÖLBAŞI BELEDİYE BAŞKANLIĞI
(İmar ve Şehircilik Müdürlüğü)

İlgi : Gölbaşı Belediye Başkanlığı, 06/04/2020 tarihli ve 7886 sayılı yazı.

İlgi yazıda; Ankara ili, Gölbaşı ilçesi, Gökçeşhölük mahallesinde 125036/21 parsel numarası ile Gölbaşı Belediye Başkanlığına ait olduğu belirtilerek "Lisanssız Güneş Enerji Santrali" kurulması amacıyla hazırlanan nazım imar planı ve uygulama imar planı hakkında Kurum görüşümüz talep edilmektedir.

Elektrik Piyasasında Lisanssız Elektrik Üretimine İlişkin Yönetmeliğin "Lisans alma ile şirket kurma muafiyeti" başlıklı 5/c maddesinde; "Kurulu gücü bir megavat veya Kanunun 14 üncü maddesi çerçevesinde Cumhurbaşkanı tarafından belirlenmiş kurulu güç üstü sınıra kadar olan yenilenebilir enerji kaynaklarına dayalı üretim tesisleri"nin lisans alma muafiyetine dahil olduğu hükme bağlanmış, yine aynı yönetmeliğin 32 nci maddesinde "Bu Yönetmelik kapsamında kurulacak üretim tesisleri için Kurum tarafından taşınmaz mülkiyeti ve sınırlı ayni hak edinimine ilişkin herhangi bir işlem yapılmaz." hükmüyle, Kurum tarafından lisanssız elektrik üretimi tesislerinin proje alanında bulunan taşınmazların temini işlemlerinin yapılmayacağı kurala bağlanmıştır. İlgi yazıya konu olan proje bu kapsamda yer almaktadır.

Söz konusu faaliyetin lisanssız elektrik üretim faaliyeti olması nedeniyle ve yukarıda belirtilen ilgili mevzuat gereğince, Kurumumuz tarafından herhangi bir taşınmaz temini işlemi yapılması veya kamu yararı kararı alınması mümkün bulunmamaktadır.

Ancak, Enerji Piyasası Düzenleme Kurulunun 16/05/2019 tarihli ve 8587 sayılı Kararı kapsamında, çatı uygulaması dışındaki güneş enerjisi santrallerinin; mutlak tarım arazileri, özel ürün arazileri, dikili tarım arazileri, sulu tarım arazileri, suhu-kuru I, II, III, IV. sınıf tarım arazileri ve çevre arazilerde tarımsal kullanımı bütünlüğünü bozan alanları kapsamayan arazilerde yer alması şartıyla kurulmasında Kurumumuz açısından bir sakınca bulunmadığı değerlendirilmektedir.

Bu nedenle, bahse konu talebin yukarıda izah edilen hususlar ile diğer ilgili mevzuat kapsamında idarenizce değerlendirilmesi gerekmektedir.

Bilgilerinizi ve gereğini rica ederim.

6-65930
Dr. Feyzi YAR
Başkan a.
Daire Başkanı

HİZMETE ÖZEL

Evraza Doğrulmak İçin : <https://www.epdk.org.tr/Dogrula/ACZB51.B> Fia: 63602


Adres: Mustafa Kemal Mahallesi 2078 Sokak No:4
Çankaya/ANKARA
Telefon No: 03122014675 Faks No: 03122014100
e-Posta: İnternet Adresi: <http://www.epdk.org.tr/>

Bilgi için: Nurel YÜKSEK

Yönetim Görevlisi
nyukse@epdk.org.tr
Telefon No: 0312/5544151
Faks No: 0312/2014100

Bu belge 5070 sayılı Elektronik İmza Kanununun 5. Maddesi gereğince güvenli elektronik imza ile onaylanmıştır.

Annex 10: Ministry of Transport and Infrastructure, General Directorate of Civil Aviation, Department of Airports



**T.C.
ULAŞTIRMA VE ALTYAPI BAKANLIĞI**
Sivil Havacılık Genel Müdürlüğü
Havaalanları Daire Başkanlığı

Sayı : 46715750-105.03[006]-E.8112 12.05.2020

Konu : Gökçeşeyh Mah. 125036/21 Parsel
Kurum Görüşü

GÖLBAŞI BELEDİYE BAŞKANLIĞINA

İlgi : a) 02.04.2020 tarihli ve 53211733-7829 sayılı yazınız.
b) 08/04/2015 tarihli ve 46715750-101.06.99-17-6245/E.708 sayılı yazınız.
c) 22/04/1925 tarihli ve 657 sayılı Harita Genel Müdürlüğü ile İlgili Bazı
Düzenlemeler Hakkında Kanun.

İlgi (a) yazınız ile Gökçeşeyh Mahallesi, 125036 ada 21 parsel üzerinde GES amaçlı
hazırlanması planlanan imar planına ilişkin Genel Müdürlüğünüz görüşü talep edilmektedir.

Soz konusu talebinize ilişkin olarak;

- 1- Bir örneği ekte sunulan İlgi (b) yazınız kapsamında işlem yapılması,
- 2- İlgi (c) Kanun, Ek Madde 5 hükmü kapsamında Harita Genel Müdürlüğüne gerekli
bilgilendirmelerin yapılması,


gerekmekte olup müteakip süreçte ilçeniz sınırları içerisinde yapılacak yapılaşmalar ve imar
planı çalışmaları bu kapsamda işlem yapılması halinde Genel Müdürlüğünüzden ilave
görüş alınmasına gerek bulunmamaktadır.

Bilgilerinizi ve gereğini rica ederim.


e-imza
Bahri KESİCİ
Genel Müdür

Ek : İlgi (b) yazı örneği (3 sayfa)

Not: 5070 sayılı elektronik imza kanunu gereği bu belge elektronik imza ile imzalanmıştır.

 Etilik Değirmente Kulu : OGEV ALP Etilik Takip Adresi: https://www.ozelgece.gov.tr/iletisim-eyet
Gazi Mustafa Kemal Bulvarı No: 13/A 065 70 Maltepe
ANKARA
Telefon No: (0 312) 203 60 00. Belgegeçer No: (0 312) 212
46 84
Kayı Adresi: iletisim@hso1.kap.tr Internet adresi:

Bilgi için: Mert ERİÇ
Mühendis
Telefon No: (0 312) 203 00 70





T.C.
ULAŞTIRMA, DENİZCİLİK VE HABERLEŞME BAKANLIĞI
Sivil Havacılık Genel Müdürlüğü

Sayı : 46715750-101.06.99-17-6245/E.708
Konu : Mânia Görüşleri

08/04/2015

DAĞITIM BİRİMLERİNE

- İlgili :
- a) 2920 sayılı Türk Sivil Havacılık Kanunu,
 - b) 23/09/1993 tarihli ve B.11.0.SHG.0.12.00.01/3706 sayılı Havaalanları Çevresindeki Doğal Mânialar Üzerinde Yapılaşma Kuralları içeren SHT-150/5300 Havacılık Talimatı,
 - c) 24/07/2012 tarihli ve B.11.1.SHG.0.10.01.05-2549/1421 sayılı Havaalanları Çevresindeki Yapılaşma Kriterlerine İlişkin Bakanlığımızca Yayımlanan Genelge,
 - d) 23/08/2013 tarihli ve 28744 sayılı Resmi Gazete'de yayımlanan Haberleşme, Seyrüsefer, Gözetim Sistemleri Mânia Kriterleri Hakkında Yönetmelik.

Bilindiği üzere, belediye başkanlıkları, her türlü ve her ölçekte imar planı yapma yetkisine sahip kurum ve kuruluşlar, ilgili Bakanlıklar başta olmak üzere kamu ve özel tüzel kişiler ve gerçek kişiler tarafından, yapılması planlanan imar planı düzenlemeleri, rüzgâr enerji santrali tesisleri, ulaşım ve enerji yatırımları gibi her türlü yapılaşmanın; İlgili (a)'da kayıtlı Kanunun 47. maddesi kapsamında yayımlanan havaalanı mânia planları ve havacılık emniyetine olan etkileri açısından değerlendirilmek üzere Genel Müdürlüğümüzün görüşleri talep edilmektedir.

Genel Müdürlüğümüzden görüş talep edilen bu tür yazılara verilen görüşlerde; ilgili Havaalanı Mânia Planları ve plan notları ile ilgili (c) Genelge ve ilgili (b) Talimat hükümlerine uyulması yönünde görüş bildirilmekte, bunun haricinde ilave bir görüş bildirilmemektedir. Havaalanı Mânia Planlarının dağıtımını ilgili tüm kurum ve kuruluşlara Genel Müdürlüğümüzce yapılmış olup, adı geçen mevzuatlara da Genel Müdürlüğümüzün kurumsal internet sitesinden (www.shgm.gov.tr) erişilebilmektedir. Bu nedenle, bu tür durumlarda Genel Müdürlüğümüz görüşü sorulmadan direkt olarak ilgili kurum ve kuruluşlarca

- 1) Havaalanı Mânia Planı ve plan notlarında belirtilen kriterlere uyulması,
- 2) İlgili (b) Talimat ve ilgili (c) Genelge hükümlerine uyulması,

suretiyle işlem yapılabilmesi değerlendirilmiş olup, bu uygulama kamu kaynaklarının verimli ve etkin kullanımı açısından önem arz etmektedir.

Görsel Kontrol
Mânia Planları
İmarat
Mühendisi

1 / 3

Gazi Mustafa Kemal Bulvarı No:128/A 06570 Maltepe ANKARA
Telefon No: (0 312) 263 62 43, Belgegeçer No: (0 312) 215 81 30
e-posta: sefa.kartal@shgm.gov.tr, İnternet adresi: www.shgm.gov.tr

İlgili İçin
Sefa KARTAL
MÜHENDİS



Bu belge 3075 sayılı Kanunla göre elektronik imzalarla, Erişim Kaynak Değerlendirme İçin <http://www.shgm.gov.tr> adresine erişimi olanlar.



061962975



ULAŞTIRMA, DENİZCİLİK VE HABERLEŞME BAKANLIĞI
Sivil Havacılık Genel Müdürlüğü

46715750-101.06.99-17-6245/E.708

08/04/2015

Diğer taraftan, İlgı (d)'de kayıtlı Yönetmelik hükümleri kapsamında, CNS hizmet sağlayıcılarından (Hizmet verdikleri havaalanı veya Türkiye hava sahasında sorumlu oldukları sektör ile sınırlı olmak üzere, Ulaştırma, Denizcilik ve Haberleşme Bakanlığınca veya ilgili mevzuat uyarınca haberleşme, seyrüsefer ve gözetim alanlarında teknik hizmet sağlama yetkisi verilmiş kurum/kuruluşlarından) da adı geçen Yönetmelik hükümleri çerçevesinde görüş alınması gerekmektedir.

Bu nedenle bundan sonra yapılacak uygulamalarda, imar planı düzenlemeleri, yapılaşma yükseklikleri, rüzgâr, güneş, jeotermal vb. enerji santralleri, karayolu ve demiryolu güzergâh projeleri, enerji iletim hatları, doğalgaz ve petrol boru hatları vb. her türlü yapılaşma ile ilgili olarak yukarıda belirtilen hususlar doğrultusunda işlem yapılması gerekmektedir.

Bu yazımızın bir örneğinin il bazında tüm belediye başkanlıklarına ve ayrıca her türlü ve her ölçekte imar planı yapma yetkisine sahip kurum ve kuruluşların Valilikler tarafından gönderilmesinin sağlanması hususunda gereğini önemle arz / rica ederim.

Bilal EKŞİ
Genel Müdür

Genel Sekreter
Alihan ÖZKAYA
Mühür
Mühür

2 / 3

Gazi Mustafa Kemal Bulvarı No:128/A 06570 Maltepe ANKARA
 Telefon Nu.: (0 312) 203 62 43, Belgegeçer Nu.: (0 312) 215 81 30
 e-posta: sefa.kartal@shgm.gov.tr, İnternet adresi: www.shgm.gov.tr

Bilgi için
Sefa KARTAL
MÜHÜR



Bu belge 3070 sayılı kanunla göre elektronik imzalandı. E-rak Kaynak Doğrulama için "http://www.shgm.gov.tr" adresine erişim ediniz.



0810420175

Annex 11: Official Decision of Ministry of Transport and Infrastructure, General Directorate of Infrastructure Investments



T.C.
ULAŞTIRMA VE ALTYAPI BAKANLIĞI
Altyapı Yatırımları Genel Müdürlüğü

Sayı : 58891979-754-24345
Konu : Ankara İli, Gölbaşı İlçesi,
Gökçeşeyitık Mahallesi 125036 ada,
21 parselde İmar Planı Çalışması

16.04.2020


GÖLBAŞI BELEDİYE BAŞKANLIĞINA
Gazi Osman Paşa Mahallesi Sahil Caddesi No: 3 Gölbaşı ANKARA

İlgi : 03.04.2020 tarih ve 7884 sayılı yazınız.

Ankara İli, Gölbaşı İlçesi, Gökçeşeyitık Mahallesi sınırları içerisinde kalan 125036 ada, 21 parselde Güneş Enerji Santrali Amaçlı İmar Planı çalışması yapılacağı ilgi yazınız ile bildirilmekte olup, konuya ilişkin Kurum görüşümüz talep edilmektedir.

Yapılan inceleme neticesinde; söz konusu alanın "Ankara Dirsekli Askeri Havaalanı Mania Planı" sınırları içerisinde kaldığı tespit edilmiştir. Bahsi geçen alanda yapılacak çalışmalarda Millî Savunma Bakanlıđından temin edilecek "Ankara Dirsekli Askeri Havaalanı Mania Planı" çerçevesinde işlem yapılmasının uygun olacağı değerlendirilmektedir.

Bilgilerinizi ve geređini rica ederim.


Serdar ÜNSAL
Hakan B.
Genel Müdür Yardımcısı V.

Emel Doğrulama Kodu : USARUVN Emel Takip Adresi : <https://www.nakoye.gov.tr/udb-efyy>
Hakkı Turyiğ Caddesi No:5 06338 Emek / Çankaya / ANKARA
KEP Adresi : uab@tbs01.kep.tr

Eđi için: Hakkı İbrahim CAN
Alet Operatörü

Mađı / İlgili / İlgili Kurum ve Kuruluşlar



Annex 12: Call Letter from TEDAŞ



T.C.
GÖLBAŞI BELEDİYE BAŞKANLIĞI
İmar ve Şehircilik Müdürlüğü

Sayı : E-84803165-000-20242
Konu : Güneş Enerji Santrali Kurulması Hk.

30/09/2020

Sayın TEDAŞ GENEL MÜDÜRLÜĞÜNE
Nasuh Akar Mah. Türkocağı Cad. No: 2 Çankaya/ANKARA

Başkanlığımızca mülkiyeti Belediyemize ait olan Ankara İli Gölbaşı İlçesi Gökçeşhüyük Mahallesi 125036 ada 21 parselde Güneş Enerji Santrali kurulması amacıyla planlama çalışmalarına başlanmıştır. Gerekli kurum görüşleri sorulmuş olup eksik olan görüşlerin tamamlanması akabinde ilgili mevzuat kapsamında Bakanlık Makamına resmi başvuru yapılacaktır.

Ankara İli Gölbaşı İlçesi Gökçeşhüyük Mahallesi 125036 ada 21 parselde kurulması planlanan 4200 kWe gücündeki güneş enerji santrali hakkında Planlı Alanlar İmar Yönetmeliği' nin 56'ncı maddesinin 5'inci fıkrasında; " Kamuya ait alanlarda kamu kurum ve kuruluşlarınca yapılan veya yaptırılacak olan; karayolu, demiryolu, liman, yat limanı ve benzeri ulaşım tesisleri, bunların tamamlayıcı niteliğindeki trafik ve seyir kuleleri, çekek yeri, iskele, açık ve kapalı barınak, tersane, tamir ve bakım istasyonları, tünel, köprü, menfez, baraj, hidroelektrik santrali, rüzgâr ve güneş enerji santrali, sulama ve su taşıma hatları, su dolum tesisleri, arıtma tesisleri, katı atık depolama ve transfer tesisleri ile atık ayrıştırma tesisleri, her tür ve nitelikteki enerji, haberleşme ve iletişim istasyonları ve nakil hatları, doğalgaz ve benzeri boru hatları, silo, dolum istasyonları, rafineri gibi enerji, sulama, tabii kaynaklar, ulaştırma, iletişim ve diğer altyapı hizmetleri ile ilgili tesisler ve bunların müştemilatı niteliğinde olan kontrol ve güvenlik üniteleri, trafo, eşanjör, elavator, konveyör gibi yapılar, bu işleri yapmak üzere geçici olarak kurulan beton ve asfalt santralleri, yapı ruhsatına tabi değildir." denilmektedir.

Söz konusu Ankara İli Gölbaşı İlçesi Gökçeşhüyük Mahallesi 125036 ada 21 parselde Güneş Enerji Santrali kurulması ve işletilmesinde Planlı Alanlar İmar Yönetmeliği, 3194 sayılı İmar Kanunu ve Belediyemiz açısından herhangi bir sakınca bulunmamaktadır.

Bilgilerinizi arz/rica ederim.

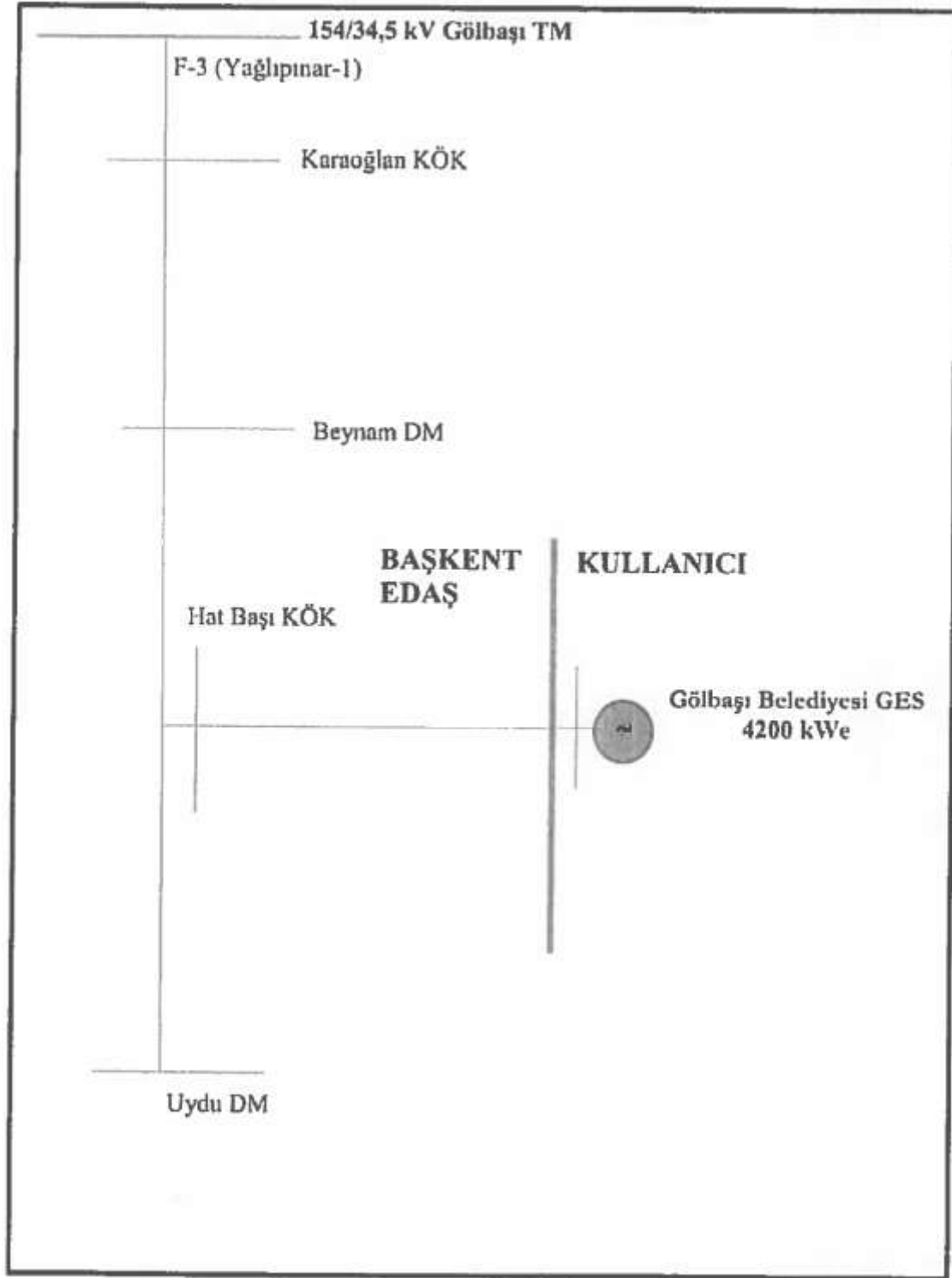
*Bu belge elektronik imzalıdır. İmzalı suretinin aslını görmek için <https://dogrulama.belediyecay.gov.tr> adresine girerek (XgWx/Z-v7DE2U-7rTMke-aVcO/K-Ec/HIA5p) kodunu yazınız.

G. O. P. Mah. Sahil Cad. No:3 Gölbaşı / Ankara
Telefon No: (312)485 55 55 Faks No: (312)485 55 55
e-Posta: info@ankaragolbasibsl.tr İnternet Adresi: <https://www.ankaragolbasibsl.tr/>

Bilgi için: Sezgin GÜNERİ
Belediye İçisi
Telefon No:

EK-2

MÜLKİYET SINIRLARI ÇİZELGESİ



Annex 13: Environmental and Social Screening Checklist

Sub-project Information

Sub-project title	Gölbaşı Municipality SPP Subproject
Sub-project beneficiaries	Gölbaşı Municipality
Proposed date of start of work	TBD
Brief description of sub-project	Gölbaşı Municipality's Solar Power Plant Project aims to produce the electricity consumption needed by the citizens living in the district through a solar power-based electricity generation facility.
The planned capacity for Solar Power Plants (MWh/MWe)	MWh/year
Site area (ha), location	9.21 ha Ankara, Gölbaşı, Çerkezhöyük (Gökçeşhüyük), Lot 125036 of Block 21
Status of national EIA process of sub-project Please attach the official documents for (Annex I - Within the Scope of the Environmental Impact Assessment), (Annex II - Not Requiring Environmental Impact Assessment), and (Excluded from Scope).	The sub-project is subject to Regulation on Environmental Impact Assessment (Official Gazette No. 31907, July 29, 2022)-Annex II, "EIA is not required" decision is granted (Annex 1: Official Decision of Ankara Governorship Provincial Directorate of Environmental and Urbanization for EIA Not Required).

Environmental and social impacts related to the proposed sub-project – the existing situation			
	Yes	No	Details
Will the sub-project adversely affect legally protected areas or internationally recognized areas of high biodiversity value ¹ ?		X	The subproject is located in Gölbaşı SEPA. Although the sub-project has the status of a National Protected Area, it does not harbor important biodiversity elements, particularly <i>Centaurea tchihatcheffi</i> , the characterizing species of the SEPA.
Will the sub-project be located in or near the environmentally sensitive or protected area (in accordance with national legislation)?	X		The sub-project is located in Gölbaşı SEPA. Although the sub-project has the status of a National Protected Area, it does not harbor important biodiversity elements, particularly <i>Centaurea tchihatcheffi</i> , the characterizing species of the SEPA.
Will the sub-project adversely affect critical habitats such as forest ecosystems, wetlands, marshlands, and aquatic ecosystems or natural habitats?		X	There is no natural habitat in the sub-project area. There are also no important biological elements that will trigger critical habitat in the sub-project area. However, since the impact area of the sub-project is limited due to the nature of the sub-project, it is not possible to affect the sensitive areas in the vicinity.
Will the sub-project adversely affect endangered plant and animal species?		X	There are no endangered species in the sub-project area.

Will the sub-project affect archaeological sites, historic monuments and settlements?		X	There is no negative impact on any historical assets located near the sub-project.
Is there woods or forest around the sub-project area?		X	There are no woods or forest around the subproject area
Will the sub-project adversely affect the woods and forest?		X	Since there are no woods or forest around the subproject area, it will not affect adversely any woods or forest
Is there any combustible and flammable subsidence material around the sub-project area?		X	No, there is not any combustible and flammable subsidence material around the sub-project area.
Is there underground facilities such as gas pipeline, electrical facilities?		X	No, there are no underground facilities such as gas pipeline, electrical facilities
Are there any overhead lines such as high-voltage lines in or near the sub-project area?		X	There is no high or medium voltage line with a diameter of 500 meters around the sub-project.
Will people permanently or temporarily lose access to facilities, services, or natural resources because of the sub-project activities?		X	No, local people will not be affected by losing access to facilities, services, or natural resources because if the sub-project activities.
Does this sub-project intervention (for the power plant area, energy transmission line, or transportation route) require the acquisition of privately owned land? If so, please provide details.		X	The property is allocated for the municipality.
If land parcel acquisition is required (for the Power Plant Area, Energy Transmission Line, or Access Road), what is the actual land size and ownership status?		NA	
If new land is needed (for the Power Plant Area, Energy Transmission Line, or Access Road) and the land is privately owned, can this land be purchased through mutual agreement (outside of expropriation) with the consent of the landowner?		NA	
Will the sub-project require the acquisition of public lands?		X	
If public lands will be acquired, are there any formal/informal users utilizing these lands for income generation purposes?		NA	
Will there be loss of/damage to productive trees, fruit plants or crops that generate livelihood income for the households?		X	There are no productive trees, fruit plants or crops in the land where the SPP subproject will be built
Is there any soil contamination observed at the sub-project area?		X	No soil contamination is observed.

Impacts of sub-project (in case of rooftop solar sub-project only):			
Will the sub-project affect the daily operation of the building and people?			
Is the building protected under the law for the protection of cultural heritage?			
Is the building of special significance to any vulnerable group (i.e. disabled people, minorities, youth, etc.)?			

Environmental and social/impacts related to sub-project construction/installation			
	Yes	No	Details
Will the sub-project involve the use of forest trees or other natural resources as building materials?		X	The sub-project does not involve the use of forest trees or other natural resources as building materials.
Will the sub-project emit greenhouse gases (CO ₂ , NO _x , O ₃) or ozone-depleting substances (CFC, methyl bromide, etc.)?		X	It is envisaged to use a small crane, excavator, and a truck during the construction phase of the sub-project. Greenhouse gas generation will be negligible.
Will the sub-project use, produce, or discharge hazardous and toxic materials (e.g., hospital waste, industrial waste, or other?)	X		If the equipment is to be filled with fuel near the site, there will be a possibility of minor spills. Apart from this, there is a possibility of small scale medical waste (dressing etc.).
Will the sub-project produce or cause occupational hazards?	X		In the execution of material transport and assembling works of panels, PV Panel Power Lines Connecting etc. In all processes, there are hazards such as working at height, electric shock or Hot/Sunstroke.
Will the sub-project cause dust and noise pollution?	X		A low amount of dust generation is expected on the access roads during the transportation of the excavation material, panels, and a low amount of noise generation during installation.
Will the sub-project cause water pollution?		X	Due to the low number of people to work, there will not be a significant increase in the wastewater load.
Will the sub-project cause soil pollution?	X		There is a possibility of pollution due to the storage of hazardous materials and wastes generated during construction and assembly without providing the necessary conditions.

Will the sub-project result in temporary disruption to the livelihoods of any persons/households?		X	
Will the sub-project cause community safety-related hazards?	X		Occupational accidents may arise due to working at height and working with electricity.
Will the sub-project include significant OHS concerns?		X	
Will the sub-project cause additional traffic load?		X	It is envisaged to use a small crane, excavator, and a truck during the construction phase of the sub-project. The contribution of the sub-project to traffic will be negligible.
Will the sub-project cause any adverse impact on the closest sensitive receptors (if there is any)?	X		The closest sensitive receptors to the sub-project area is hobby gardens located 25 meters away. Possible noise and dust impact can occur during construction period.
Is there a population that can be negatively affected by the sub-project?		X	
Other environmental or social impacts (describe the nature and severity of its impact)	<p>There is no expropriation within the sub-project scope.</p> <p><u>Construction phase</u></p> <p>The impacts of the sub-project on the environment and the communities will mainly occur during construction phase.</p> <ul style="list-style-type: none"> • Dust, exhaust and noise emissions due to construction activities and vehicle movement • Impact on soil due to construction activities such as excavations and backfilling • Traffic impacts • Waste generation • Chemical/hazardous material storage • Impacts on flora and fauna • Workers' health and safety • Community health and safety • Impacts on cultural heritage <p><u>Operation phase:</u></p> <p>The operation phase of the solar power plant will not have significant impacts in terms of environment or on the surrounding communities.</p>		

Annex 14: Title Deed Information

TAŞINMAZA AİT TAPU KAYDI

Zemin Tipi	: Ana Taşınmaz	Ada	: 125036
Zemin No	: 105389974	Parsel	: 21
İl	: ANKARA	Yüzölçüm	: 92164.05000
İlçe	: GÖLBAŞI		
Kurum	: Gölbaşı(ANKARA)		
Mahalle/Köy	: ÇERKEZHÖYÜK(GÖKÇEHÜYÜK) M		
Mevkii	:		
Çık No	: 35		
Sayfa No	: 3455		
Pafsa	:		
Durumu	: Aktif		
Nitelik	: TARLA		

MÜLKİYET BİLGİLERİ

ID	İştirak No	Malik	TC Kimlik No	Vergi No	Malik Tipi	Pay/Payda	Durumu	Tipi	Tesis	Terkim
480081046	0	(SN:5202) GÖLBAŞI BELEDİYESİ - (ANKARA) VKN:4070012071		4070012071	TuzelKisi	1.000/1.000	Aktif	Muterek	156107204- Kamulaştırma İçin İflaz- İslem Tanımlandı- İflaz İşlemi (TSM)- 108310728- Gölbaşı(ANKARA)- 7685-11.4.2019	0---Belirli/---_

ŞEHİR-BEYAN BİLGİLERİ

ID	Baş Tarihi	Baş Tarihi	Çünkü	Sıra	Şablon	Durumu	Tapu/Bölü M	Tip/Bi SB İd	İlk Tesis	Tesis	Terkim
134643623	3.4.2018	..	3083 Sayılı Yasının 6. Maddesine gereğince kuruludur.	0	3083 Sayılı Kurumun 6. Maddesine Göre Belirleme	Aktif	Zemin	331074585	142220386-İlgili Kurumun Yazısı- İslem Tanımlandı-3083 S.Y. Göre Toplulaştırma İşlemi- 99103301- Gölbaşı(ANKARA)- 6946-30.3.2018	142220386-İlgili Kurumun Yazısı-İslem Tanımlandı- 3083 S.Y. Göre Toplulaştırma İşlemi- 99103301- Gölbaşı(ANKARA)-6946- 30.3.2018	0---Belirli/---_

ŞEHİR-BEYAN LEHTARLAR

ID	Malik ID	Malik	Malik Tipi	Pay/Payda	İştirak No	S/B ID	Tip	Durum	Taşınmaz ID	Tesis	Terkim

135581227	19.4.2018	19.4.2018	Dijer (Konusu: Bölge İhtis Belirleme uyarınca dahi kütük parçaları ayrılmaz ruhesve lütfen takvim edilemez .) Tarih: 18/04/2018 Sayı: E1038124	0.00000	Dijer	Aktif	Zemin	331074586	0---Belirsiz---.	143006248-İlgili Kurumun Yazısı-İsten Tanımlanmış- Dijer Beyanları Tesisi- 99101301- Gölbaşı(ANKARA)-6946- 30.3.2018	0---Belirsiz---.
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ŞEHİR BEYAN LEHTARLAR

ID	Malik ID	Malik	Malik Tipi	Pay-Payda	İştirak No	S-B ID	Tipi	Durum	Tajınmaz ID	Tesis	Tekim
32700615	5768235	(SN:5768235) TARIM REFORM GENEL MÜDÜRLÜĞÜ YENİ	TuzelKisi	1/1	0	135581227	Mustevak	Aktif	0	143006248-İlgili Kurumun Yazısı-İsten Tanımlanmış- Dijer Beyanları Tesisi- 99101301- Gölbaşı(ANKARA)- 6946-30.3.2018	0---Belirsiz---.